# Automation

## Actuated & Process Control Valves

# Product Catalogue

+GF+

GEORG FISCHER
PIPING SYSTEMS

# Technical Information

For technical data including operating & control pressures, dimensions as well as the use of accessories, please refer to
data sheets which are available in both printed and electronic (pdf) formats from the Coventry Sales Office (details on back cover).

For details of our range of plastics pipe, fittings and hand operated valves in PVC-U, PVC-C, ABS, PP, PE & PVDF as well as our INSTAFLEX PB range, please request Price Lists from the Coventry Sales Office.

**Important Note**
The technical data given in this catalogue is for preliminary information purposes only and is published without guarantee. All pictures and drawings are for illustrative purposes only and should not be regarded as wholly accurate in every detail. We reserve the right to withdraw or to alter the specification of any product without notice. Please consult our General Conditions of Supply.

## GF Piping Systems

Throughout the world everyone demands a secure supply of clean water. GF Piping Systems meets this challenge by providing complete piping systems suitable for safe operation in virtually all environments. We have developed systems comprising of pipe, fittings, valves and measuring and control devices in high quality corrosion resistant thermoplastics for the transport of not only clean water, but also gas and other industrial media.
Whether installed above or below ground, in industrial, commercial or domestic applications, GF Piping Systems provide a solution.

Innovation and technology.
GF Piping Systems, through focused research, is continually developing new products and technologies, setting new global standards in quality and performance for our customers.

All from one source.
GF Piping Systems covers the growing demand for complete solutions from a single source in a wide range of applications.

Quality management.
All system components are stringently tested in accredited test laboratories. Management and production procedures are certified to ISO 9001 and ISO 14001 to guarantee form, fit, function and compliance in whatever application they may be used throughout the world.

Sales and service - worldwide.
Our local companies and representatives in over 100 countries provide "one stop" shopping, including planning support, training, and product availability.

Facts and Figures.
GF Piping Systems with its 3200 employees achieves an annual turnover of about CHF 800 million.
GF Piping Systems is part of the Georg Fischer Corporation, which was founded in Schaffhausen, Switzerland in 1802. Today the corporation has more than 13,000 employees and an annual turnover of CHF 3.3 billion

**your benefits**

- **technological expertise**
- **one stop shopping**
- **premier quality and performance**
- **system solutions**
- **know-how and experience**
- **local support**

# George Fischer Sales Limited UK

Inventiveness and enterprise, a thirst for knowledge and a sound understanding of his craft, these were characteristics of Johann Conrad Fischer, who began producing cast steel in crucibles in a former herb mill in Schaffhausen in 1802. This was the beginning of a new era of iron processing on the European continent as well as the cornerstone of a large industrial enterprise now operating worldwide.

Actual industrial production began in the second half of the 19th Century with the development of Malleable Iron foundries in Schaffhausen and Singen, as well as the large steel foundry in Schaffhausen. The first diversification into areas other than casting occurred in the 1920s, when the largest engineering factory in Schaffhausen was incorporated into the GF Works. This factory manufactured copying lathes and subsequently fully automatic turning machines.

A major step towards diversification into other materials was taken some 50 years ago. The diversity and especially the aggressiveness of media conveyed in pipelines led to the extension of the product range in the early fifties to include fittings and valves made of high-grade plastics.

GF is a company which has earned a worldwide reputation through the high technological standard of its products and their outstanding quality.
The applied engineering know-how which GF has acquired and keeps up-to-date via its extensive consulting activities, is utilised for the benefit of users in the design of products for maximum practicality and ease of installation.

A whole series of innovative new developments, such as a bead and crevice free fusion jointing system, or a secondary containment piping system, highlight the pioneering role played by GF in the field of piping systems.

Plant engineers in particular appreciate the product consistency and accuracy of tolerances, maintained over many years.

Products from GF bearing the trademark have become a by word with professionals and cover a large part of the range of metal and plastic products necessary for pipeline construction in industry, building services and communal supply networks.

GF Distribution Centre - Coventry (DCC)

## List of abbreviations

| | |
|---|---|
| AL | Number of bolt holes |
| ABS | Acrylonitrile Butadiene Styrene |
| ANSI | American National Standard Institute |
| CR | Chloroprene Rubber, e.g. Neopren |
| d | Pipe outside diameter |
| DIN | German standard |
| DN | Nominal bore |
| e | Wall thickness |
| EPDM | Ethylene Propylene Rubber |
| FM | Fusion Method |
| FPM | Fluorine Rubber, e.g. Viton® |
| kg | Weight in kilograms |
| G | Pipe thread, not pressure tight in the thread to ISO 288 |
| HTR | High Temperature Resistant |
| ISO | International Standardization Organisation |
| Ms | Brass |
| NBR | Nitrile Rubber |
| NPT | Taper male thread pressure tight in the thread to ANSI B 1.20.1 |
| PA | Polyamide |
| PBTP | Polybutylene therephthalate |
| PE | Polyethylene |
| PN | Nominal pressure at 20°C, water |
| PP | Polypropylene, heat stabilised |
| PTFE | Polytetrafluorethylene, e.g. Teflon® |
| PVC-C | Polyvinyl Chloride, chlorinated |
| PVC-U | Unplasticised Polyvinyl, chloride |
| PVDF | Polyvinylidene fluoride |
| R | Taper male thread, pressure tight in the thread to ISO 7 |
| Rp | Parallel female thread, pressure tight in the thread to ISO 7 |
| ® | Registered trade-mark |
| s | Across flats |
| SAN | Styrene-acrylonitrile |
| SC | Size of hexagon bolts |
| SP | Standard pack. The figure given indicates the quantity of fittings contained in a standard pack |
| St | Steel |
| Tg | Malleable Iron |
| TM | Trade-mark |
| Tr | Trapezoid thread |
| PP-GF | Polypropylene, glassfibre reinforced |

# Product Range Piping Systems


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# PVC-U


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# PVC-U

# Ball valves electric

## Ball valve type 134 PVC-U 100-230V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

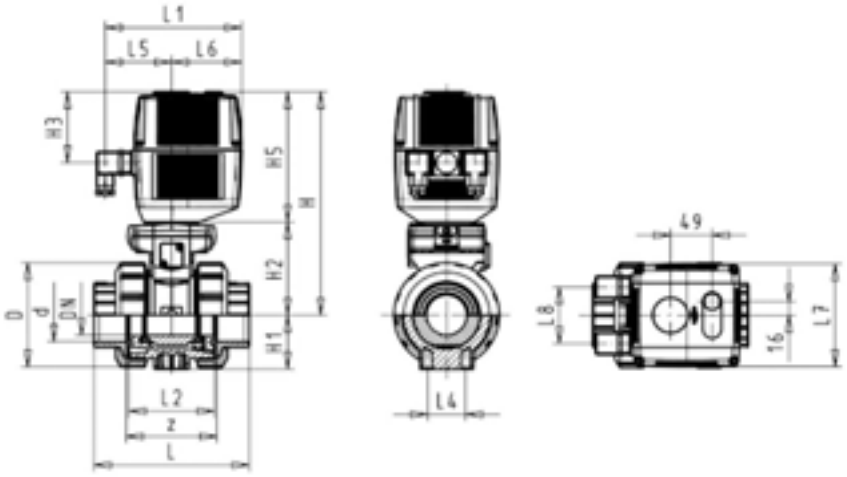
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 134 002** | **199 134 012** | 2.100 | |
| ½ | 15 | 10 | 185 | **199 134 003** | **199 134 013** | 2.100 | |
| ¾ | 20 | 10 | 350 | **199 134 004** | **199 134 014** | 2.200 | |
| 1 | 25 | 10 | 700 | **199 134 005** | **199 134 015** | 2.300 | |
| 1 ¼ | 32 | 10 | 1000 | **199 134 006** | **199 134 016** | 2.600 | |
| 1 ½ | 40 | 10 | 1600 | **199 134 007** | **199 134 017** | 3.000 | |
| 2 | 50 | 10 | 3100 | **199 134 008** | **199 134 018** | 3.800 | |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 69 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 75 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 89 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 97 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 110 |



# PVC-U

## Ball valve type 130 PVC-U 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

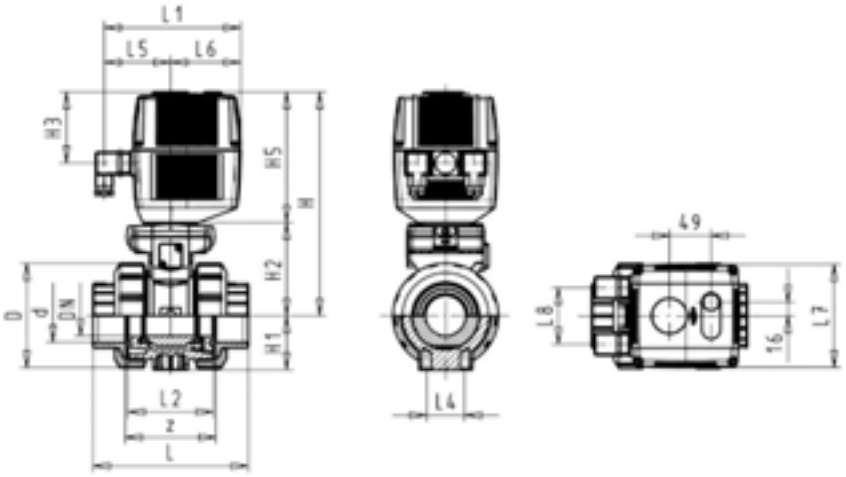
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Image and drawing DN65-100 see chapter "type 130 DN65-100"
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: 5 s/90°<) EA21, 15 s/90°<) EA31

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 002** | **199 130 012** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 003** | **199 130 013** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 004** | **199 130 014** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 005** | **199 130 015** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 006** | **199 130 016** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 007** | **199 130 017** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 008** | **199 130 018** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-U

## Ball valve type 130 PVC-U 100-230V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

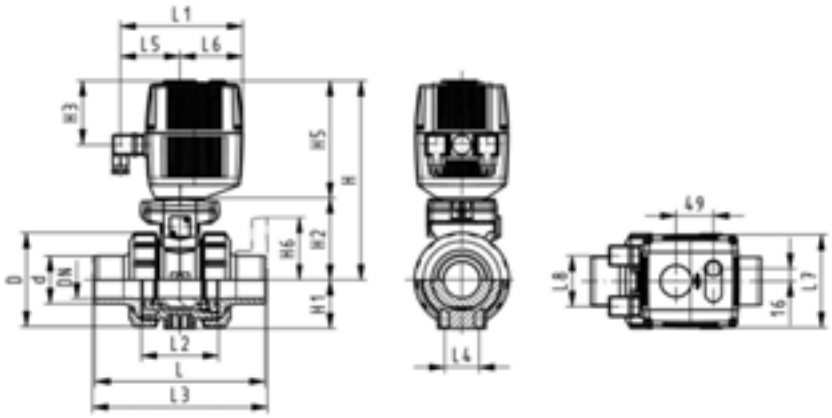
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Image and drawing DN65-100 see chapter "type 130 DN65-100"
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: 5 s/90°<) EA21, 15 s/90°<) EA31

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 022** | **199 130 032** | 2.100 | |
| 20 | 15 | 10 | 185 | **199 130 023** | **199 130 033** | 2.100 | |
| 25 | 20 | 10 | 350 | **199 130 024** | **199 130 034** | 2.200 | |
| 32 | 25 | 10 | 700 | **199 130 025** | **199 130 035** | 2.300 | |
| 40 | 32 | 10 | 1000 | **199 130 026** | **199 130 036** | 2.600 | |
| 50 | 40 | 10 | 1600 | **199 130 027** | **199 130 037** | 3.000 | |
| 63 | 50 | 10 | 3100 | **199 130 028** | **199 130 038** | 3.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PVC-U

## Ball valve type 130 PVC-U 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

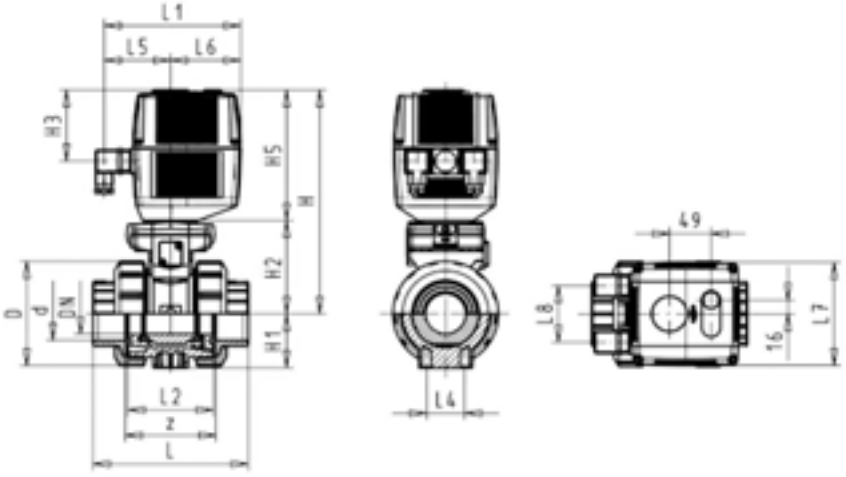
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Image and drawing DN65-100 see chapter "type 130 DN65-100"
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: 5 s/90°<) EA21, 15 s/90°<) EA31

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 122** | **199 130 132** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 123** | **199 130 133** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 124** | **199 130 134** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 125** | **199 130 135** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 126** | **199 130 136** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 127** | **199 130 137** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 128** | **199 130 138** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-U

## Ball valve type 130 PVC-U 100-230V
## With manual emergency override
## With fixed flanges serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Image and drawing DN65-100 see chapter "type 130 DN65-100"
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: 5 s/90°<) EA21, 15 s/90°<) EA31
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

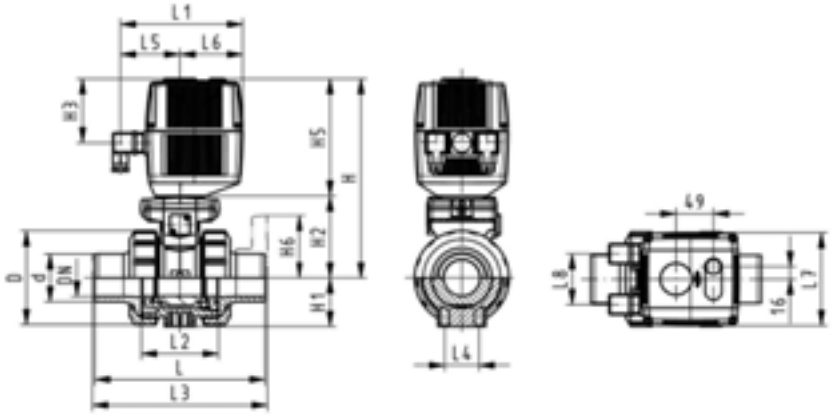
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 130 103** | **199 130 113** | 2.300 | |
| 25 | 20 | ¾ | 10 | 350 | **199 130 104** | **199 130 114** | 2.500 | |
| 32 | 25 | 1 | 10 | 700 | **199 130 105** | **199 130 115** | 2.700 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 130 106** | **199 130 116** | 3.200 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 130 107** | **199 130 117** | 3.700 | |
| 63 | 50 | 2 | 10 | 3100 | **199 130 108** | **199 130 118** | 4.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 124 | 180 | 56 | 130 | 25 | 98 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 194 | 180 | 89 | 200 | 45 | 98 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 83 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# PVC-U

## Ball valve type 134 PVC-U 24V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

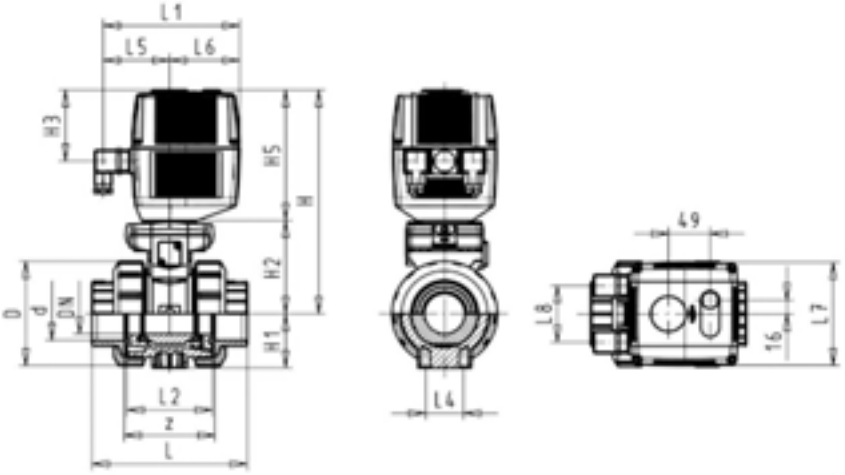
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 134 042** | **199 134 052** | 2.100 |
| ½ | 15 | 10 | 185 | **199 134 043** | **199 134 053** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 134 044** | **199 134 054** | 2.200 |
| 1 | 25 | 10 | 700 | **199 134 045** | **199 134 055** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 134 046** | **199 134 056** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 134 047** | **199 134 057** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 134 048** | **199 134 058** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 69 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 75 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 89 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 97 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 110 |



# PVC-U

## Ball valve type 130 PVC-U 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

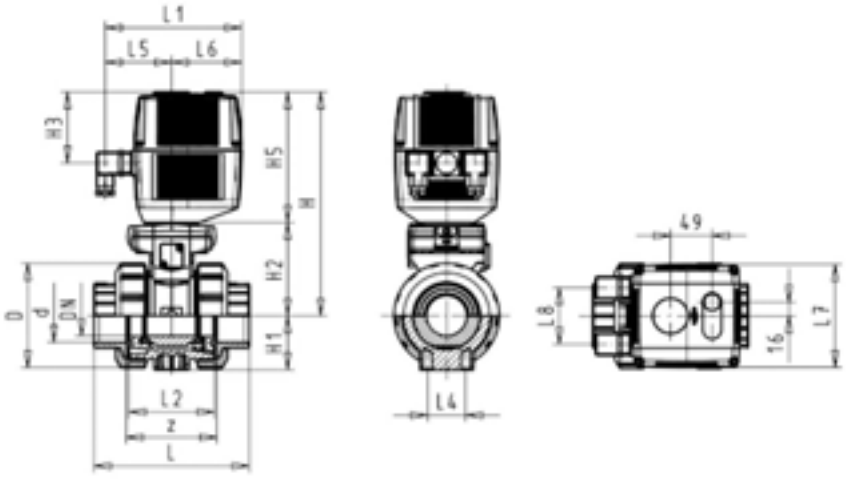
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 042** | **199 130 052** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 043** | **199 130 053** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 044** | **199 130 054** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 045** | **199 130 055** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 046** | **199 130 056** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 047** | **199 130 057** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 048** | **199 130 058** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-U

## Ball valve type 130 PVC-U 24V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

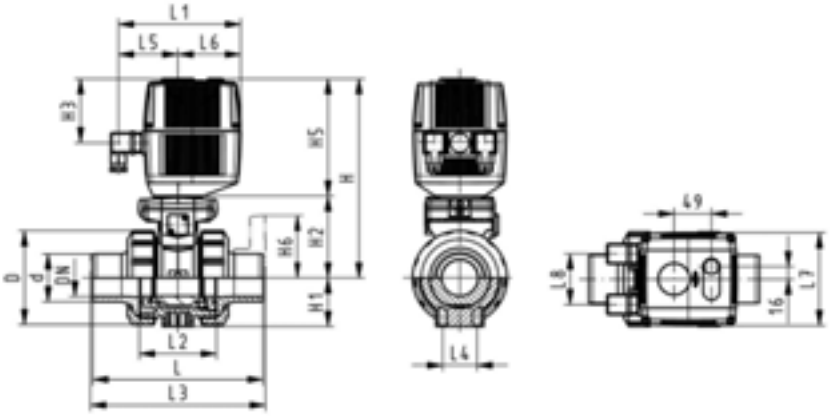
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 062** | **199 130 072** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 063** | **199 130 073** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 064** | **199 130 074** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 065** | **199 130 075** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 066** | **199 130 076** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 067** | **199 130 077** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 068** | **199 130 078** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PVC-U

## Ball valve type 130 PVC-U 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

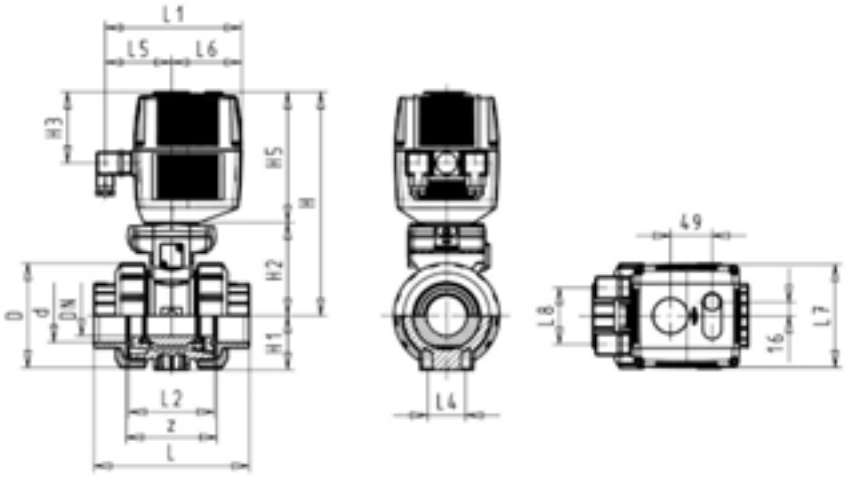
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 162** | **199 130 172** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 163** | **199 130 173** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 164** | **199 130 174** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 165** | **199 130 175** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 166** | **199 130 176** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 167** | **199 130 177** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 168** | **199 130 178** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-U

## Ball valve type 130 PVC-U 24V
## With manual emergency override
## With fixed flanges serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

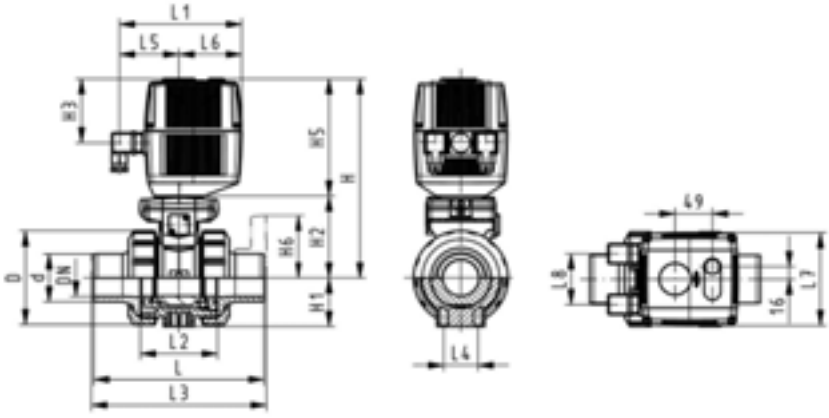
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 130 143** | **199 130 153** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 130 144** | **199 130 154** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 130 145** | **199 130 155** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 130 146** | **199 130 156** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 130 147** | **199 130 157** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 130 148** | **199 130 158** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 83 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# PVC-U

## Ball valve type 107 PVC-U 100-230V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

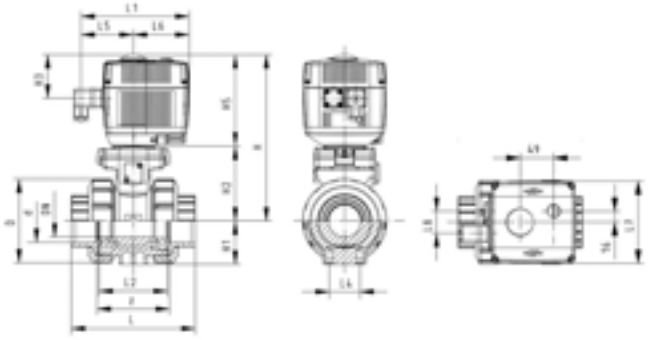
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 402** | **199 107 412** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 403** | **199 107 413** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 404** | **199 107 414** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 405** | **199 107 415** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 406** | **199 107 416** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 407** | **199 107 417** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 408** | **199 107 418** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 1 | 122 | 67 | 60 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 69 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 75 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 89 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 97 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 110 |



# PVC-U

## Ball valve type 107 PVC-U 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

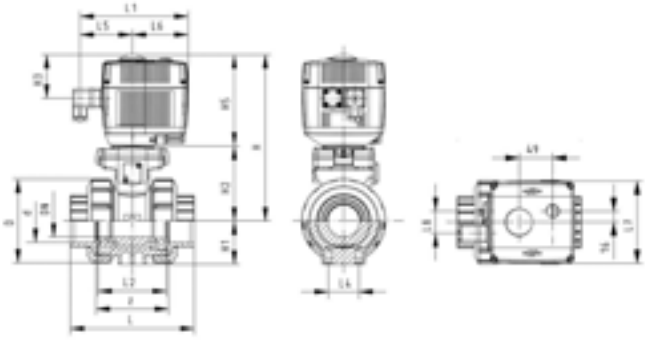
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 002** | **199 107 012** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 003** | **199 107 013** | 2.072 |
| 25 | 20 | 10 | 350 | **199 107 004** | **199 107 014** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 005** | **199 107 015** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 006** | **199 107 016** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 007** | **199 107 017** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 008** | **199 107 018** | 2.914 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-U

## Ball valve type 107 PVC-U 100-230V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

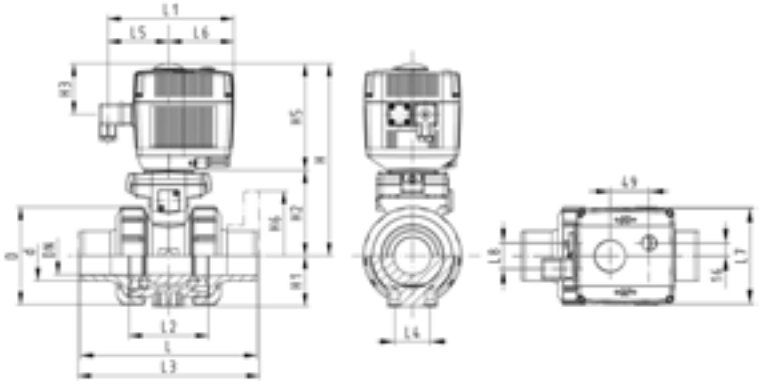
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 022** | **199 107 032** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 023** | **199 107 033** | 2.072 |
| 25 | 20 | 10 | 350 | **199 107 024** | **199 107 034** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 025** | **199 107 035** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 026** | **199 107 036** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 027** | **199 107 037** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 028** | **199 107 038** | 3.772 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



# PVC-U

## Ball valve type 107 PVC-U 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

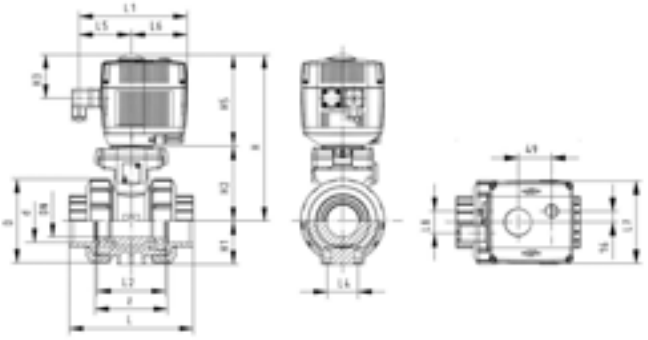
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 622** | **199 107 632** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 623** | **199 107 633** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 624** | **199 107 634** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 625** | **199 107 635** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 626** | **199 107 636** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 627** | **199 107 637** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 628** | **199 107 638** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-U

## Ball valve type 107 PVC-U 100-230V
## With manual emergency override
## With fixed flanges serrated metric

**Model:**

- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

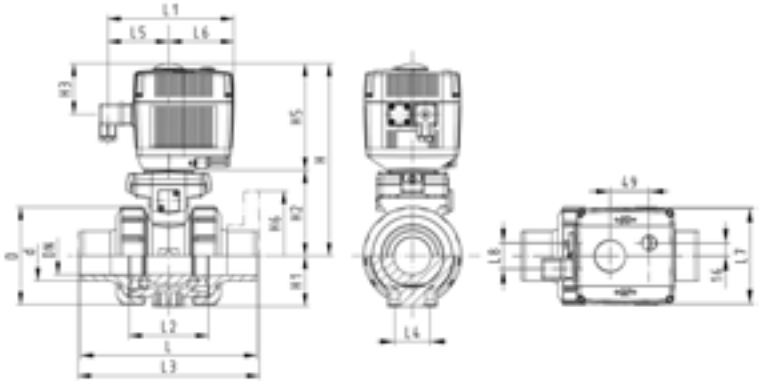
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 603** | **199 107 613** | 2.300 | |
| 25 | 20 | ¾ | 10 | 350 | **199 107 604** | **199 107 614** | 2.500 | |
| 32 | 25 | 1 | 10 | 700 | **199 107 605** | **199 107 615** | 2.700 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 606** | **199 107 616** | 3.200 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 607** | **199 107 617** | 3.700 | |
| 63 | 50 | 2 | 10 | 3100 | **199 107 608** | **199 107 618** | 4.776 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 201 | 27 | 64 | 65 | 138 | 48 | 124 | 160 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 210 | 30 | 73 | 65 | 138 | 53 | 144 | 160 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 210 | 36 | 73 | 65 | 138 | 58 | 154 | 160 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 221 | 44 | 84 | 65 | 138 | 70 | 174 | 160 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 221 | 51 | 84 | 65 | 138 | 75 | 194 | 160 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 244 | 64 | 106 | 65 | 138 | 83 | 224 | 160 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# PVC-U

## Ball valve type 107 PVC-U 24V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

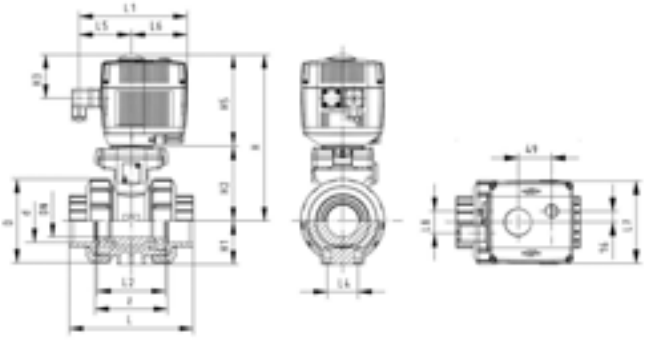
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 442** | **199 107 452** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 443** | **199 107 453** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 444** | **199 107 454** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 445** | **199 107 455** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 446** | **199 107 456** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 447** | **199 107 457** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 448** | **199 107 458** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 69 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 75 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 89 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 97 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 110 |



# PVC-U

## Ball valve type 107 PVC-U 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

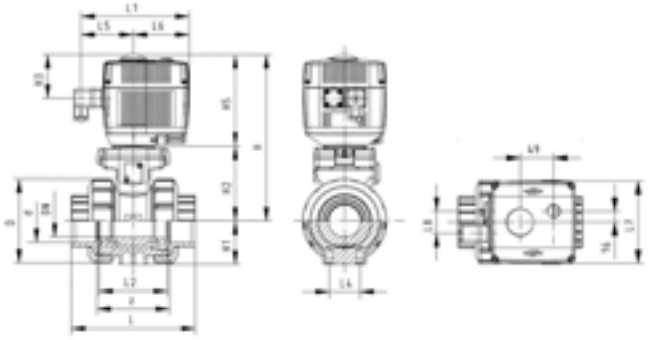
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 042** | **199 107 052** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 043** | **199 107 053** | 2.072 |
| 25 | 20 | 10 | 350 | **199 107 044** | **199 107 054** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 045** | **199 107 055** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 046** | **199 107 056** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 047** | **199 107 057** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 048** | **199 107 058** | 3.772 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-U

## Ball valve type 107 PVC-U 24V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

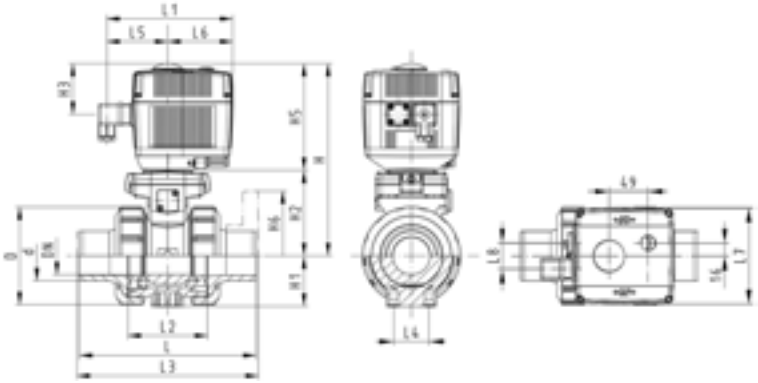
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 062** | **199 107 072** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 063** | **199 107 073** | 1.830 |
| 25 | 20 | 10 | 350 | **199 107 064** | **199 107 074** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 065** | **199 107 075** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 066** | **199 107 076** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 067** | **199 107 077** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 068** | **199 107 078** | 3.772 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



## Ball valve type 107 PVC-U 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

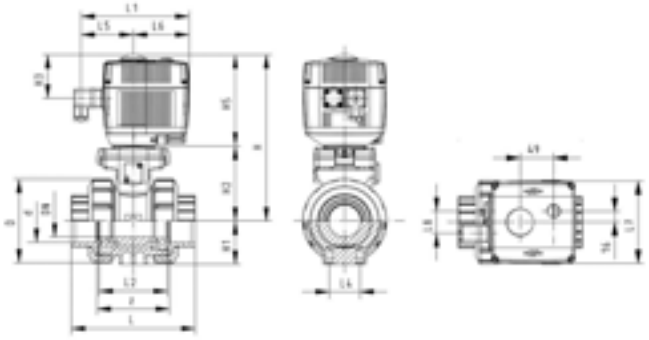
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 662** | **199 107 672** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 663** | **199 107 673** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 664** | **199 107 674** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 665** | **199 107 675** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 666** | **199 107 676** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 667** | **199 107 677** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 668** | **199 107 678** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-U

## Ball valve type 107 PVC-U 24V
## With manual emergency override
## With fixed flanges serrated metric

**Model:**

- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

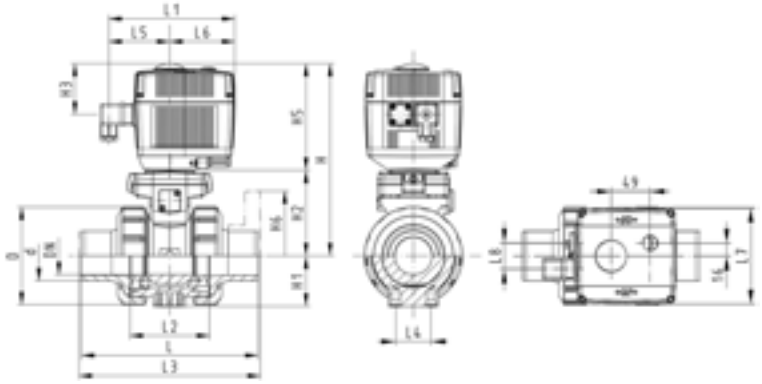
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 643** | **199 107 653** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 107 644** | **199 107 654** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 107 645** | **199 107 655** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 646** | **199 107 656** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 647** | **199 107 657** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 107 648** | **199 107 658** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 201 | 27 | 64 | 65 | 138 | 48 | 124 | 160 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 210 | 30 | 73 | 65 | 138 | 53 | 144 | 160 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 210 | 36 | 73 | 65 | 138 | 58 | 154 | 160 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 221 | 44 | 84 | 65 | 138 | 70 | 174 | 160 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 221 | 51 | 84 | 65 | 138 | 75 | 194 | 160 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 244 | 64 | 106 | 65 | 138 | 83 | 224 | 160 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# PVC-U

## Ball valve type 108 PVC-U 100-230V
## With manual override
## Unions with solvent cement sockets Inch BS

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)

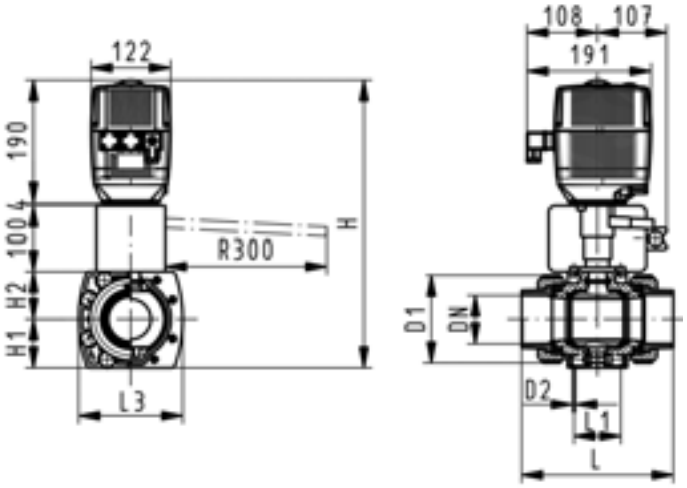
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| Inch | DN [mm] | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | EA31 | 5000 | **199 108 944** | **199 108 954** | 7.900 | |
| 3 | 80 | 10 | EA31 | 7000 | **199 108 945** | **199 108 955** | 9.400 | |
| 4 | 100 | 10 | EA31 | 11000 | **199 108 946** | **199 108 956** | 12.900 | |

| Inch | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 2 ½ | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 3 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 4 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 100-230V
## With manual override
## Unions with solvent cement sockets Inch BS

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)

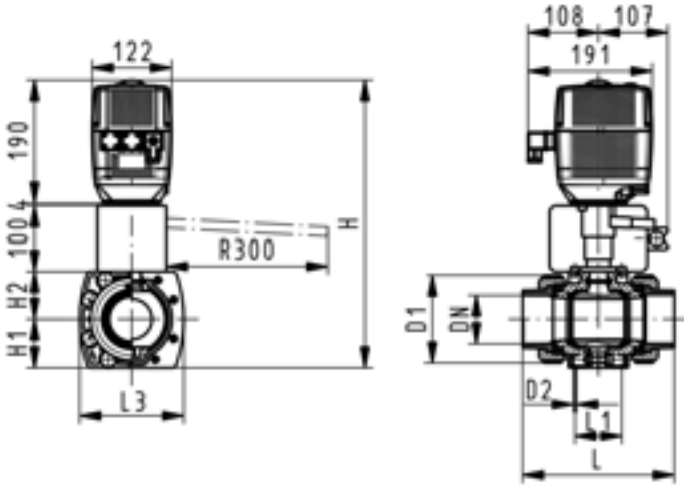
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| Inch | DN [mm] | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | EA31 | 5000 | **199 108 000** | **199 108 003** | 7.900 | |
| 3 | 80 | 10 | EA31 | 7000 | **199 108 622** | **199 108 632** | 9.400 | |
| 4 | 100 | 10 | EA31 | 11000 | **199 108 623** | **199 108 633** | 12.900 | |

| Inch | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 2 ½ | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 3 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 4 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 100-230V
## With manual override
## With flanges PVC-U metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

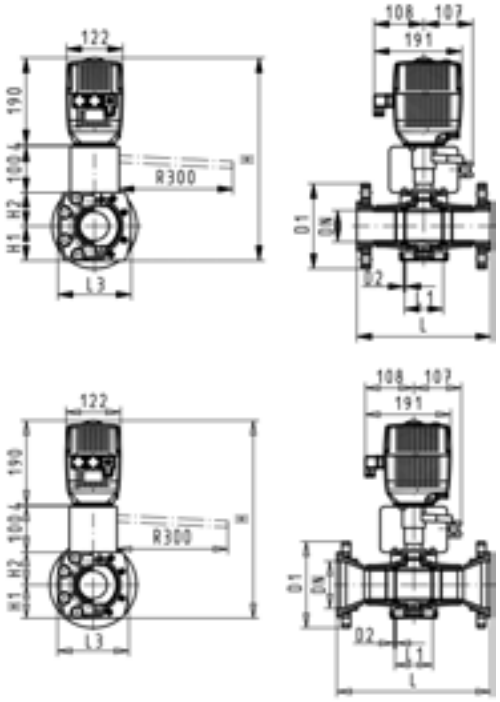
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 506** | **199 108 516** | 9.600 | |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 507** | **199 108 517** | 11.100 | |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 503** | **199 108 513** | 19.200 | |
| 160 | 150 | 6 | 10 | EA31 | 16000 | **199 108 505** | **199 108 515** | 25.300 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 100-230V
## With manual override
## With flanges PP-V metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

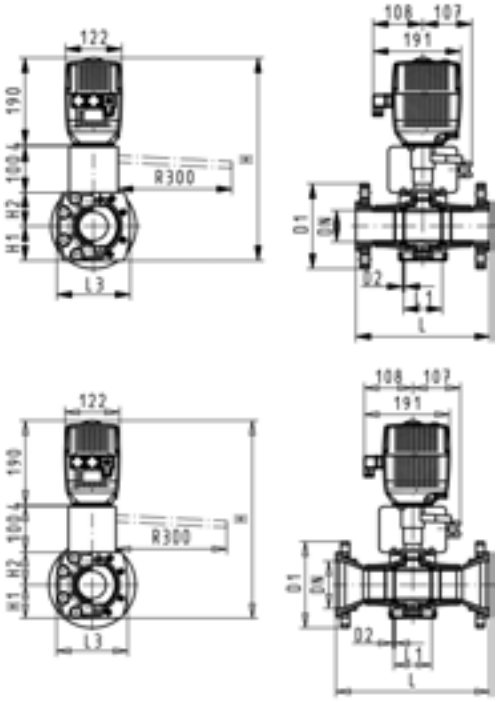
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 826** | **199 108 836** | 9.600 |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 827** | **199 108 837** | 11.100 |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 823** | **199 108 833** | 19.200 |
| 160 | 150 | 6 | 10 | EA31 | 16000 | **199 108 825** | **199 108 835** | 21.600 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 100-230V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)

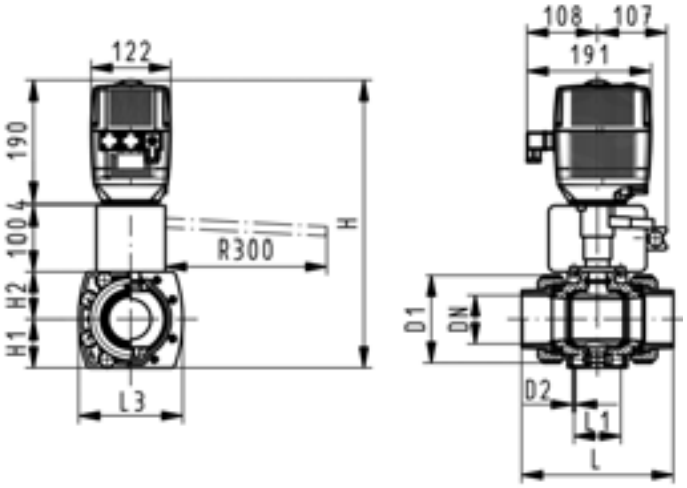
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 000** | **199 108 003** | 7.900 | |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 001** | **199 108 004** | 9.400 | |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 002** | **199 108 005** | 12.900 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 24V
## With manual override
## Unions with solvent cement sockets Inch BS

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)

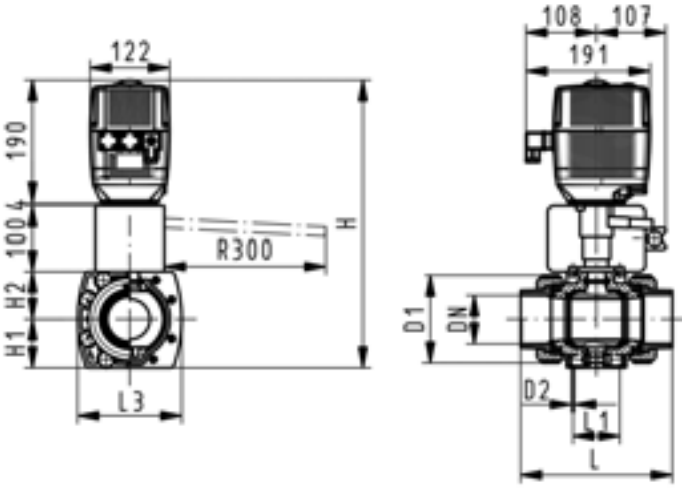
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| Inch | DN [mm] | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | EA31 | 5000 | **199 108 006** | **199 108 009** | 7.900 |
| 3 | 80 | 10 | EA31 | 7000 | **199 108 648** | **199 108 652** | 9.400 |
| 4 | 100 | 10 | EA31 | 11000 | **199 108 649** | **199 108 653** | 12.900 |

| Inch | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 2 ½ | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 3 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 4 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 24V
## With manual override
## With flanges PVC-U metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

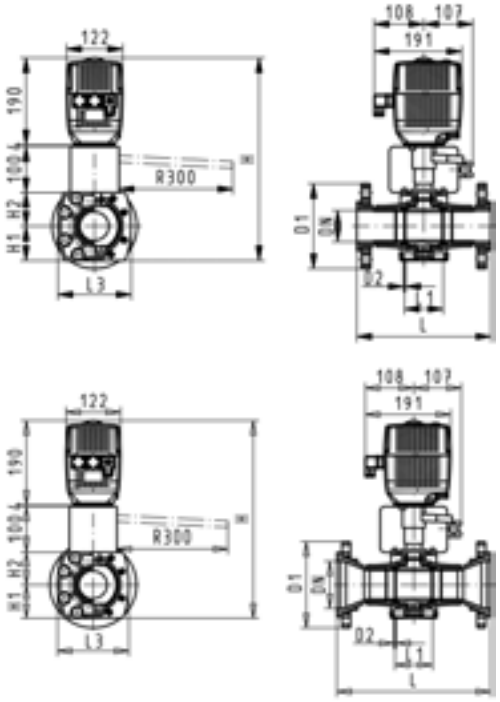
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 546** | **199 108 556** | 9.600 | |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 547** | **199 108 557** | 11.100 | |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 543** | **199 108 553** | 19.200 | |
| 160 | 150 | 6 | 10 | EA31 | 16000 | **199 108 545** | **199 108 555** | 21.600 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 24V
## With manual override
## With flanges PP-V metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

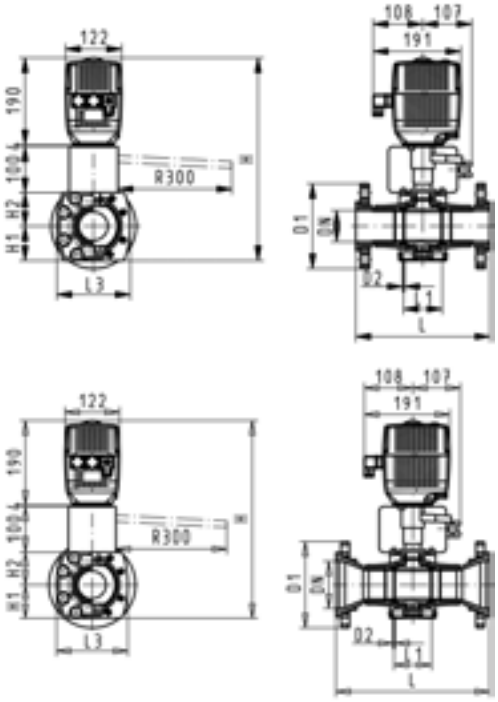
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 866** | **199 108 876** | 9.600 |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 867** | **199 108 877** | 11.100 |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 863** | **199 108 873** | 19.200 |
| 160 | 150 | 6 | 10 | EA31 | 16000 | **199 108 865** | **199 108 875** | 21.600 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 |



# PVC-U

## Ball valve type 108 PVC-U 24V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)

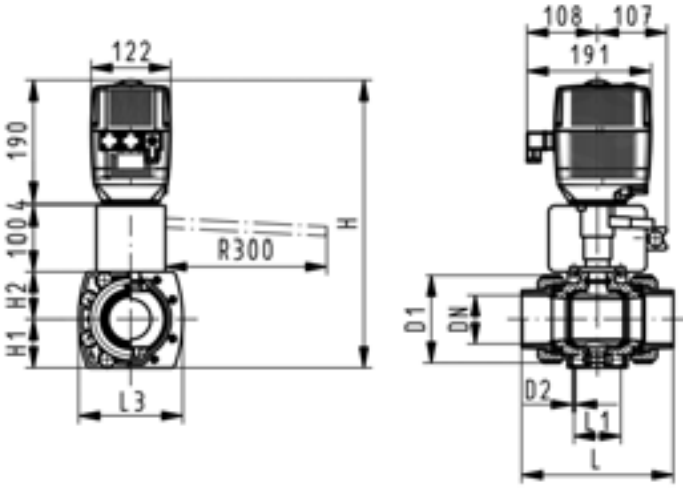
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | Type | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | EA31 | 5000 | **199 108 006** | **199 108 009** | 7.900 | |
| 90 | 80 | 3 | 10 | EA31 | 7000 | **199 108 007** | **199 108 010** | 9.400 | |
| 110 | 100 | 4 | 10 | EA31 | 11000 | **199 108 008** | **199 108 011** | 12.900 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 100-230V
## With manual emergency override
## With solvent cement sockets Inch BS

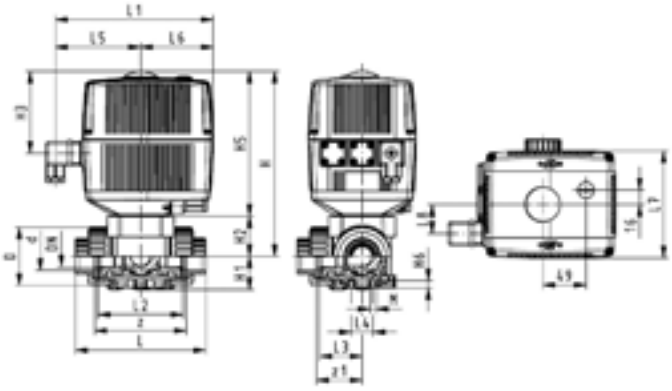
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 50 | **199 175 742** | **199 175 752** | 2.121 |
| ½ | 15 | 10 | 75 | **199 175 743** | **199 175 753** | 2.121 |
| ¾ | 20 | 10 | 150 | **199 175 744** | **199 175 754** | 2.303 |
| 1 | 25 | 10 | 280 | **199 175 745** | **199 175 755** | 2.474 |
| 1 ¼ | 32 | 10 | 480 | **199 175 746** | **199 175 756** | 2.815 |
| 1 ½ | 40 | 10 | 620 | **199 175 747** | **199 175 757** | 3.359 |
| 2 | 50 | 10 | 1230 | **199 175 748** | **199 175 758** | 4.728 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ½ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ¾ | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 1 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 1 ¼ | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 1 ½ | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 2 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| Inch | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 33 | 6 | 80 | 40 |
| ½ | 33 | 6 | 80 | 40 |
| ¾ | 33 | 6 | 94 | 47 |
| 1 | 33 | 6 | 104 | 52 |
| 1 ¼ | 33 | 8 | 126 | 63 |
| 1 ½ | 33 | 8 | 144 | 72 |
| 2 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 100-230V
## With manual emergency override
## With solvent cement sockets metric

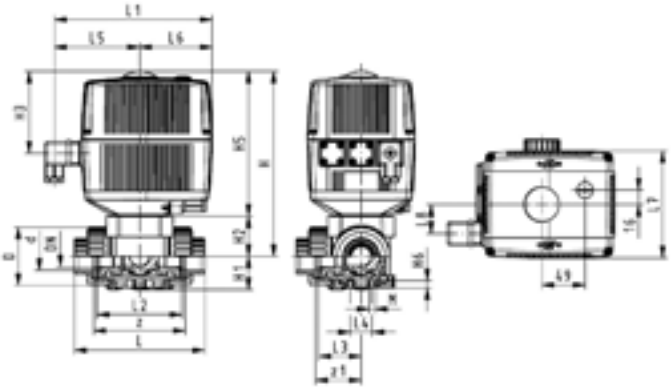
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 022** | **199 175 032** | 2.121 |
| 20 | 15 | 10 | 75 | **199 175 023** | **199 175 033** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 024** | **199 175 034** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 025** | **199 175 035** | 2.474 |
| 40 | 32 | 10 | 480 | **199 175 026** | **199 175 036** | 2.815 |
| 50 | 40 | 10 | 620 | **199 175 027** | **199 175 037** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 028** | **199 175 038** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 100-230V
## With manual emergency override
## With solvent cement spigots metric

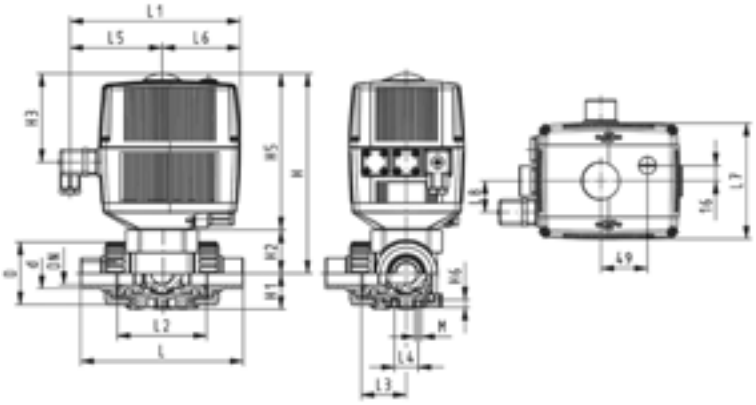
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 002** | **199 175 012** | 2.121 |
| 20 | 15 | 10 | 75 | **199 175 003** | **199 175 013** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 004** | **199 175 014** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 005** | **199 175 015** | 2.474 |
| 40 | 32 | 10 | 480 | **199 175 006** | **199 175 016** | 2.815 |
| 50 | 40 | 10 | 620 | **199 175 007** | **199 175 017** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 008** | **199 175 018** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 124 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 134 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 156 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 172 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 202 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 238 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 290 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 24V
## With manual emergency override
## With solvent cement sockets Inch BS

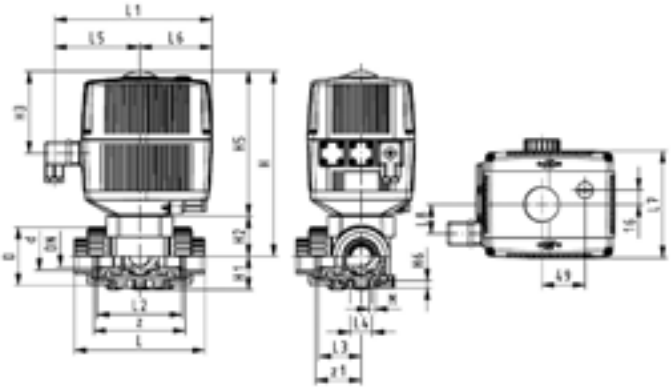
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 50 | **199 175 762** | **199 175 772** | 2.121 |
| ½ | 15 | 10 | 75 | **199 175 763** | **199 175 773** | 2.121 |
| ¾ | 20 | 10 | 140 | **199 175 764** | **199 175 774** | 2.303 |
| 1 | 25 | 10 | 280 | **199 175 765** | **199 175 775** | 2.474 |
| 1 ¼ | 32 | 10 | 480 | **199 175 766** | **199 175 776** | 2.815 |
| 1 ½ | 40 | 10 | 620 | **199 175 767** | **199 175 777** | 3.359 |
| 2 | 50 | 10 | 1230 | **199 175 768** | **199 175 778** | 4.728 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ½ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ¾ | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 1 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 1 ¼ | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 1 ½ | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 2 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| Inch | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 33 | 6 | 80 | 40 |
| ½ | 33 | 6 | 80 | 40 |
| ¾ | 33 | 6 | 94 | 47 |
| 1 | 33 | 6 | 104 | 52 |
| 1 ¼ | 33 | 8 | 126 | 63 |
| 1 ½ | 33 | 8 | 144 | 72 |
| 2 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 24V
## With manual emergency override
## With solvent cement sockets metric

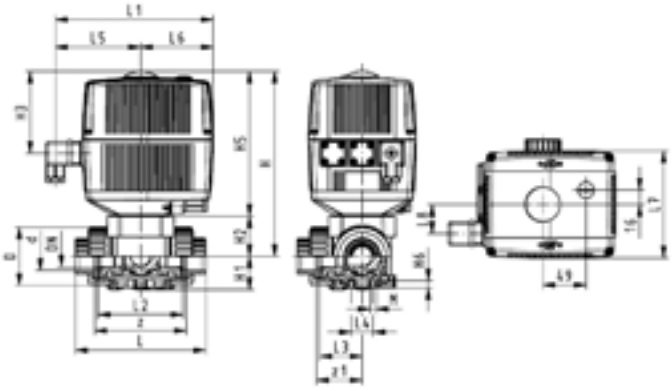
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 202** | **199 175 212** | 2.121 |
| 20 | 15 | 10 | 75 | **199 175 203** | **199 175 213** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 204** | **199 175 214** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 205** | **199 175 215** | 2.474 |
| 40 | 32 | 10 | 480 | **199 175 206** | **199 175 216** | 2.815 |
| 50 | 40 | 10 | 620 | **199 175 207** | **199 175 217** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 208** | **199 175 218** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 175 PVC-U
## Horizontal/L-port 24V
## With manual emergency override
## With solvent cement spigots metric

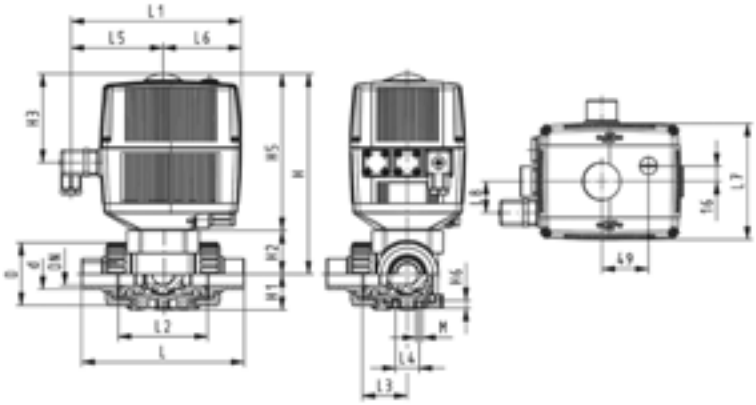
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 175 182** | **199 175 192** | 2.121 |
| 20 | 15 | 10 | **199 175 183** | **199 175 193** | 2.121 |
| 25 | 20 | 10 | **199 175 184** | **199 175 194** | 2.303 |
| 32 | 25 | 10 | **199 175 185** | **199 175 195** | 2.474 |
| 40 | 32 | 10 | **199 175 186** | **199 175 196** | 2.815 |
| 50 | 40 | 10 | **199 175 187** | **199 175 197** | 3.359 |
| 63 | 50 | 10 | **199 175 188** | **199 175 198** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 124 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 134 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 156 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 172 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 202 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 238 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 290 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 100/230V
## With manual emergency override
## With solvent cement sockets Inch BS

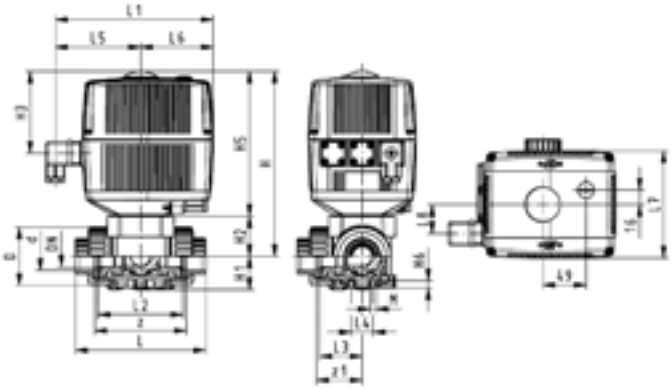
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 140 | **199 175 702** | **199 175 712** | 2.121 |
| ½ | 15 | 10 | 200 | **199 175 703** | **199 175 713** | 2.121 |
| ¾ | 20 | 10 | 470 | **199 175 704** | **199 175 714** | 2.303 |
| 1 | 25 | 10 | 793 | **199 175 705** | **199 175 715** | 2.474 |
| 1 ¼ | 32 | 10 | 1290 | **199 175 706** | **199 175 716** | 2.815 |
| 1 ½ | 40 | 10 | 1910 | **199 175 707** | **199 175 717** | 3.359 |
| 2 | 50 | 10 | 3100 | **199 175 708** | **199 175 718** | 4.728 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ½ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ¾ | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 1 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 1 ¼ | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 1 ½ | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 2 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| Inch | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 33 | 6 | 80 | 40 |
| ½ | 33 | 6 | 80 | 40 |
| ¾ | 33 | 6 | 94 | 47 |
| 1 | 33 | 6 | 104 | 52 |
| 1 ¼ | 33 | 8 | 126 | 63 |
| 1 ½ | 33 | 8 | 144 | 72 |
| 2 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 100-230V
## With manual emergency override
## With solvent cement sockets metric

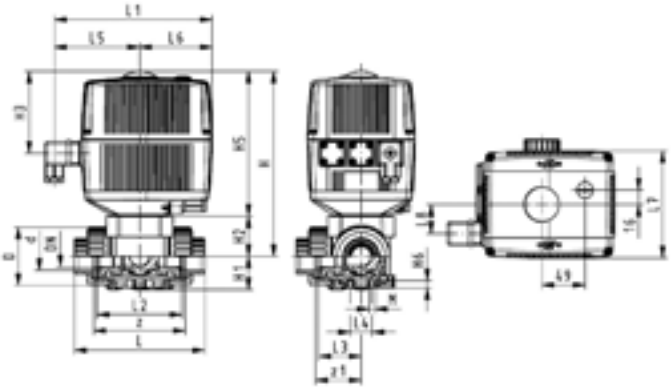
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 175 062** | **199 175 072** | 2.121 |
| 20 | 15 | 10 | 200 | **199 175 063** | **199 175 073** | 2.121 |
| 25 | 20 | 10 | 470 | **199 175 064** | **199 175 074** | 2.303 |
| 32 | 25 | 10 | 793 | **199 175 065** | **199 175 075** | 2.474 |
| 40 | 32 | 10 | 1290 | **199 175 066** | **199 175 076** | 2.815 |
| 50 | 40 | 10 | 1910 | **199 175 067** | **199 175 077** | 3.359 |
| 63 | 50 | 10 | 3100 | **199 175 068** | **199 175 078** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 100-230V
## With manual emergency override
## With solvent cement spigots metric

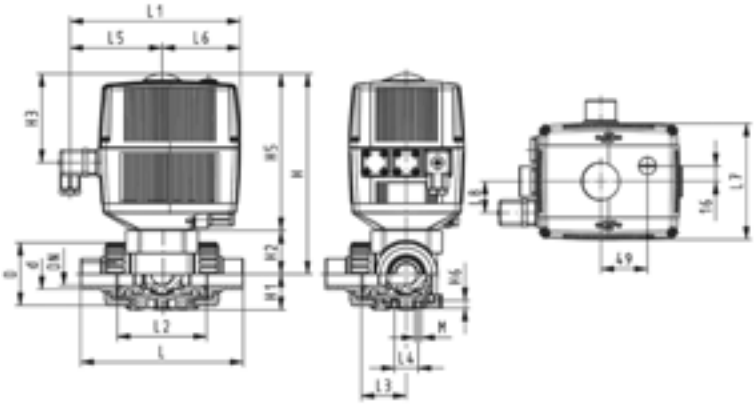
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 175 042** | **199 175 052** | 2.121 |
| 20 | 15 | 10 | **199 175 043** | **199 175 053** | 2.121 |
| 25 | 20 | 10 | **199 175 044** | **199 175 054** | 2.303 |
| 32 | 25 | 10 | **199 175 045** | **199 175 055** | 2.474 |
| 40 | 32 | 10 | **199 175 046** | **199 175 056** | 2.815 |
| 50 | 40 | 10 | **199 175 047** | **199 175 057** | 3.359 |
| 63 | 50 | 10 | **199 175 048** | **199 175 058** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 124 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 134 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 156 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 172 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 202 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 238 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 290 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 24V
## With manual emergency override
## With solvent cement sockets Inch BS

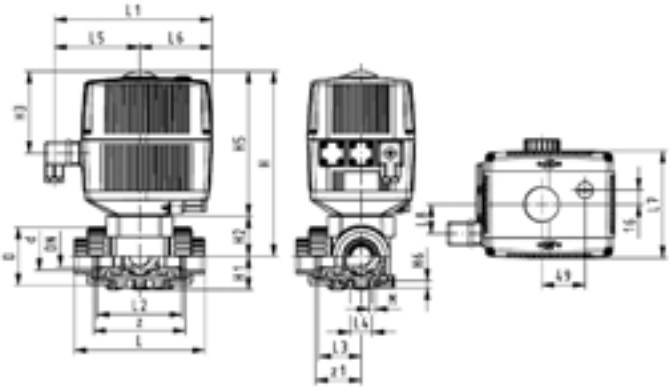
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 140 | **199 175 722** | **199 175 732** | 2.121 |
| ½ | 15 | 10 | 200 | **199 175 723** | **199 175 733** | 2.121 |
| ¾ | 20 | 10 | 470 | **199 175 724** | **199 175 734** | 2.303 |
| 1 | 25 | 10 | 793 | **199 175 725** | **199 175 735** | 2.474 |
| 1 ¼ | 32 | 10 | 1290 | **199 175 726** | **199 175 736** | 2.815 |
| 1 ½ | 40 | 10 | 1910 | **199 175 727** | **199 175 737** | 3.359 |
| 2 | 50 | 10 | 3100 | **199 175 728** | **199 175 738** | 4.728 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ½ | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| ¾ | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 1 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 1 ¼ | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 1 ½ | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 2 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| Inch | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 33 | 6 | 80 | 40 |
| ½ | 33 | 6 | 80 | 40 |
| ¾ | 33 | 6 | 94 | 47 |
| 1 | 33 | 6 | 104 | 52 |
| 1 ¼ | 33 | 8 | 126 | 63 |
| 1 ½ | 33 | 8 | 144 | 72 |
| 2 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 24V
## With manual emergency override
## With solvent cement sockets metric

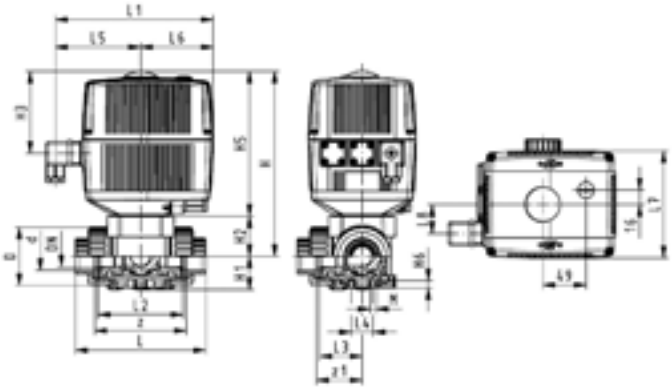
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 242** | **199 175 252** | 2.121 |
| 20 | 15 | 10 | 75 | **199 175 243** | **199 175 253** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 244** | **199 175 254** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 245** | **199 175 255** | 2.474 |
| 40 | 32 | 10 | 480 | **199 175 246** | **199 175 256** | 2.815 |
| 50 | 40 | 10 | 620 | **199 175 247** | **199 175 257** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 248** | **199 175 258** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



## 3-Way ball valve type 175 PVC-U
## Horizontal/T-port 24V
## With manual emergency override
## With solvent cement spigots metric

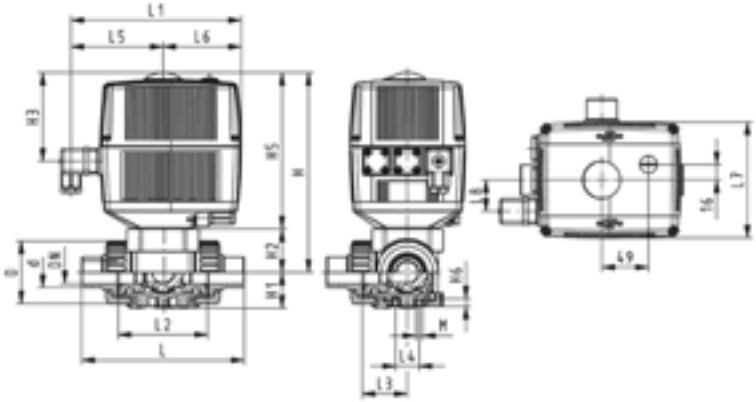
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 222** | **199 175 232** | 2.121 |
| 20 | 15 | 10 | 75 | **199 175 223** | **199 175 233** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 224** | **199 175 234** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 225** | **199 175 235** | 2.474 |
| 40 | 32 | 10 | 480 | **199 175 226** | **199 175 236** | 2.815 |
| 50 | 40 | 10 | 620 | **199 175 227** | **199 175 237** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 228** | **199 175 238** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 124 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 134 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 53 | 205 | 33 | 39 | 93 | 166 | 8 | 156 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 172 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 202 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 238 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 290 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# PVC-U

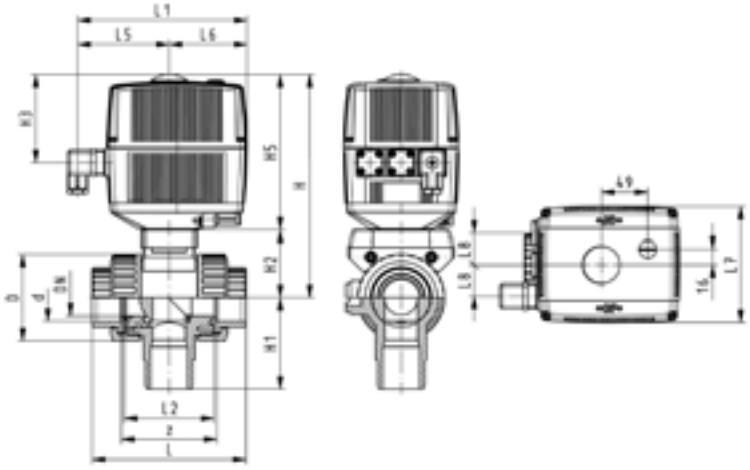
## 3-Way ball valve type 178 PVC-U
## Vertical/L-port 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

- Vertical inlet solvent cement spigot metric
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 178 242** | **199 178 252** | 2.317 |
| 20 | 15 | 10 | 75 | **199 178 243** | **199 178 253** | 2.317 |
| 25 | 20 | 10 | 150 | **199 178 244** | **199 178 254** | 2.449 |
| 32 | 25 | 10 | 280 | **199 178 245** | **199 178 255** | 2.579 |
| 40 | 32 | 10 | 480 | **199 178 246** | **199 178 256** | 2.857 |
| 50 | 40 | 10 | 620 | **199 178 247** | **199 178 257** | 3.060 |
| 63 | 50 | 10 | 1230 | **199 178 248** | **199 178 258** | 3.900 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 206 | 57 | 40 | 93 | 166 | 99 | 182 | 63 | 99 | 83 | 122 | 33 | 71 |
| 20 | 45 | 206 | 62 | 40 | 93 | 166 | 102 | 182 | 63 | 99 | 83 | 122 | 33 | 71 |
| 25 | 53 | 211 | 72 | 45 | 93 | 166 | 120 | 182 | 75 | 99 | 83 | 122 | 33 | 82 |
| 32 | 64 | 216 | 77 | 50 | 93 | 166 | 131 | 182 | 79 | 99 | 83 | 122 | 33 | 87 |
| 40 | 78 | 224 | 87 | 58 | 93 | 166 | 150 | 182 | 89 | 99 | 83 | 122 | 33 | 98 |
| 50 | 92 | 235 | 97 | 69 | 93 | 166 | 163 | 182 | 95 | 99 | 83 | 122 | 33 | 101 |
| 63 | 116 | 247 | 112 | 81 | 93 | 166 | 197 | 182 | 115 | 99 | 83 | 122 | 33 | 121 |



# PVC-U

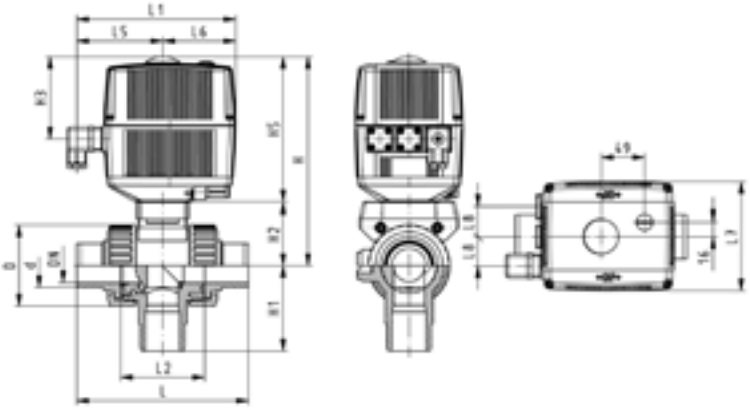
## 3-Way ball valve type 178 PVC-U
## Vertical/L-port 100-230V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

- Vertical inlet solvent cement spigot metric
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 178 062** | **199 178 072** | 2.320 | |
| 20 | 15 | 10 | 75 | **199 178 063** | **199 178 073** | 2.320 | |
| 25 | 20 | 10 | 150 | **199 178 064** | **199 178 074** | 2.454 | |
| 32 | 25 | 10 | 280 | **199 178 065** | **199 178 075** | 2.591 | |
| 40 | 32 | 10 | 480 | **199 178 066** | **199 178 076** | 2.875 | |
| 50 | 40 | 10 | 620 | **199 178 067** | **199 178 077** | 3.105 | |
| 63 | 50 | 10 | 1230 | **199 178 068** | **199 178 078** | 3.946 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 206 | 57 | 40 | 93 | 166 | 99 | 182 | 63 | 99 | 83 | 122 | 33 |
| 20 | 43 | 206 | 62 | 40 | 93 | 166 | 102 | 182 | 63 | 99 | 83 | 122 | 33 |
| 25 | 53 | 211 | 72 | 45 | 93 | 166 | 120 | 182 | 75 | 99 | 83 | 122 | 33 |
| 32 | 64 | 216 | 77 | 50 | 93 | 166 | 131 | 182 | 79 | 99 | 83 | 122 | 33 |
| 40 | 78 | 224 | 87 | 58 | 93 | 166 | 150 | 182 | 89 | 99 | 83 | 122 | 33 |
| 50 | 92 | 235 | 97 | 69 | 93 | 166 | 163 | 182 | 95 | 99 | 83 | 122 | 33 |
| 63 | 116 | 247 | 112 | 81 | 93 | 166 | 197 | 182 | 115 | 99 | 83 | 122 | 33 |



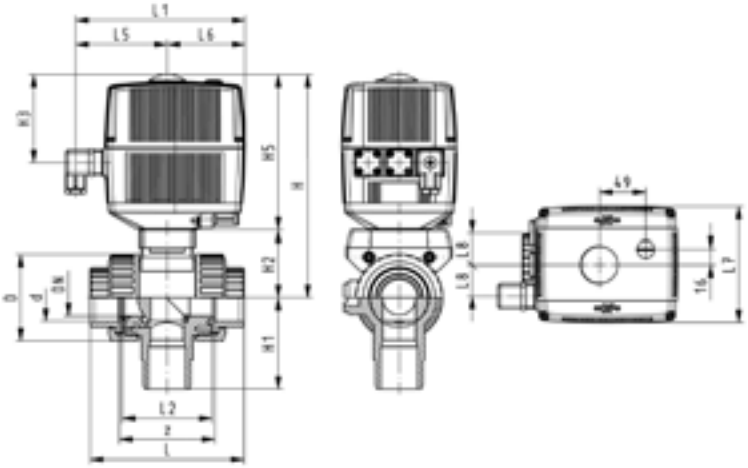
## 3-Way ball valve type 178 PVC-U
## Vertical/L-port 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

- Vertical inlet solvent cement spigot metric
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 178 262** | **199 178 272** | 2.317 | |
| 20 | 15 | 10 | 75 | **199 178 263** | **199 178 273** | 2.317 | |
| 25 | 20 | 10 | 150 | **199 178 264** | **199 178 274** | 2.449 | |
| 32 | 25 | 10 | 280 | **199 178 265** | **199 178 275** | 2.579 | |
| 40 | 32 | 10 | 480 | **199 178 266** | **199 178 276** | 2.857 | |
| 50 | 40 | 10 | 620 | **199 178 267** | **199 178 277** | 3.060 | |
| 63 | 50 | 10 | 1230 | **199 178 268** | **199 178 278** | 3.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 206 | 57 | 40 | 93 | 166 | 99 | 182 | 63 | 99 | 83 | 122 | 33 | 71 |
| 20 | 45 | 206 | 62 | 40 | 93 | 166 | 102 | 182 | 63 | 99 | 83 | 122 | 33 | 71 |
| 25 | 53 | 211 | 72 | 45 | 93 | 166 | 120 | 182 | 75 | 99 | 83 | 122 | 33 | 82 |
| 32 | 64 | 216 | 77 | 50 | 93 | 166 | 131 | 182 | 79 | 99 | 83 | 122 | 33 | 87 |
| 40 | 78 | 224 | 87 | 58 | 93 | 166 | 150 | 182 | 89 | 99 | 83 | 122 | 33 | 98 |
| 50 | 92 | 235 | 97 | 69 | 93 | 166 | 163 | 182 | 95 | 99 | 83 | 122 | 33 | 101 |
| 63 | 116 | 247 | 112 | 81 | 93 | 166 | 197 | 182 | 115 | 99 | 83 | 122 | 33 | 121 |



# PVC-U

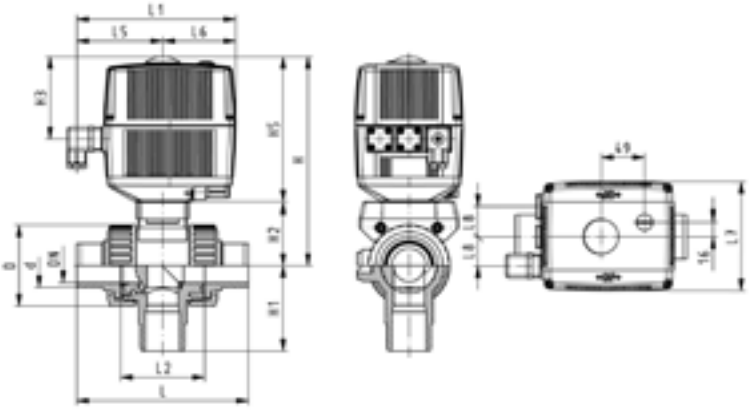
## 3-Way ball valve type 178 PVC-U
## Vertical/L-port 24V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

- Vertical inlet solvent cement spigot metric
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 178 102** | **199 178 112** | 2.320 | |
| 20 | 15 | 10 | 75 | **199 178 103** | **199 178 113** | 2.320 | |
| 25 | 20 | 10 | 150 | **199 178 104** | **199 178 114** | 2.454 | |
| 32 | 25 | 10 | 280 | **199 178 105** | **199 178 115** | 2.591 | |
| 40 | 32 | 10 | 480 | **199 178 106** | **199 178 116** | 2.875 | |
| 50 | 40 | 10 | 620 | **199 178 107** | **199 178 117** | 3.105 | |
| 63 | 50 | 10 | 1230 | **199 178 108** | **199 178 118** | 3.946 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 206 | 57 | 40 | 93 | 166 | 99 | 182 | 63 | 99 | 83 | 122 | 33 |
| 20 | 43 | 206 | 62 | 40 | 93 | 166 | 102 | 182 | 63 | 99 | 83 | 122 | 33 |
| 25 | 53 | 211 | 72 | 45 | 93 | 166 | 120 | 182 | 75 | 99 | 83 | 122 | 33 |
| 32 | 64 | 216 | 77 | 50 | 93 | 166 | 131 | 182 | 79 | 99 | 83 | 122 | 33 |
| 40 | 78 | 224 | 87 | 58 | 93 | 166 | 150 | 182 | 89 | 99 | 83 | 122 | 33 |
| 50 | 92 | 235 | 97 | 69 | 93 | 166 | 163 | 182 | 95 | 99 | 83 | 122 | 33 |
| 63 | 116 | 247 | 112 | 81 | 93 | 166 | 197 | 182 | 115 | 99 | 83 | 122 | 33 |



# PVC-U

# Ball valves pneumatic

## Ball valve type 234 PVC-U FC (Fail safe to close)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

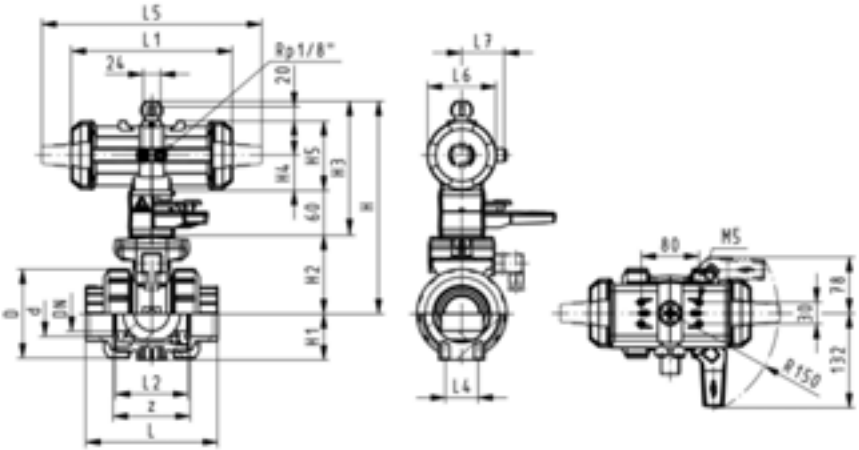
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 002** | **199 234 012** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 003** | **199 234 013** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 004** | **199 234 014** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 005** | **199 234 015** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 006** | **199 234 016** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 007** | **199 234 017** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 008** | **199 234 018** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## With manual override
## With solvent cement sockets metric

**Model:**

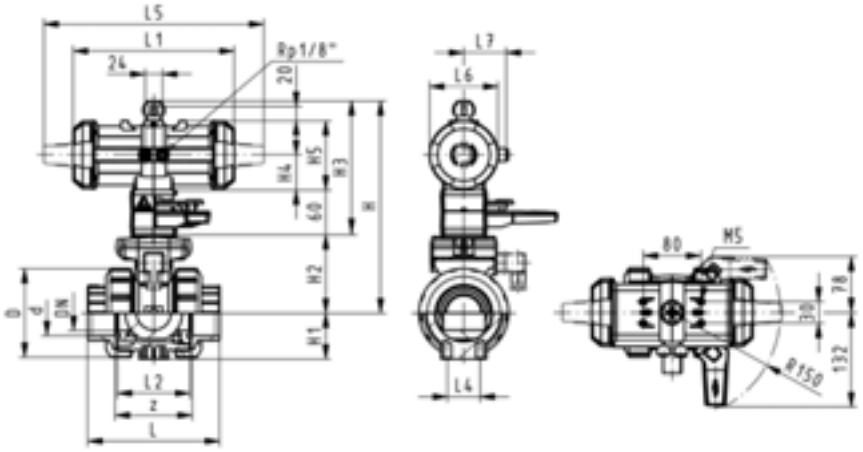
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 002** | **199 230 012** | 1.459 | |
| 20 | 15 | 10 | 185 | **199 230 003** | **199 230 013** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 004** | **199 230 014** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 005** | **199 230 015** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 006** | **199 230 016** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 007** | **199 230 017** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 008** | **199 230 018** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## With manual override
## With solvent cement spigots metric

**Model:**

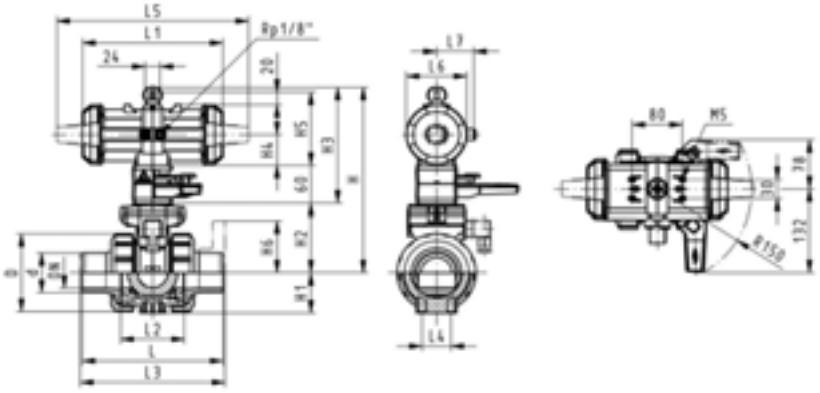
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 022** | **199 230 032** | 1.459 | |
| 20 | 15 | 10 | 185 | **199 230 023** | **199 230 033** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 024** | **199 230 034** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 025** | **199 230 035** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 026** | **199 230 036** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 027** | **199 230 037** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 028** | **199 230 038** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



## Ball valve type 230 PVC-U FC (Fail safe to close)
## With manual override
## With threaded sockets Rp

**Model:**

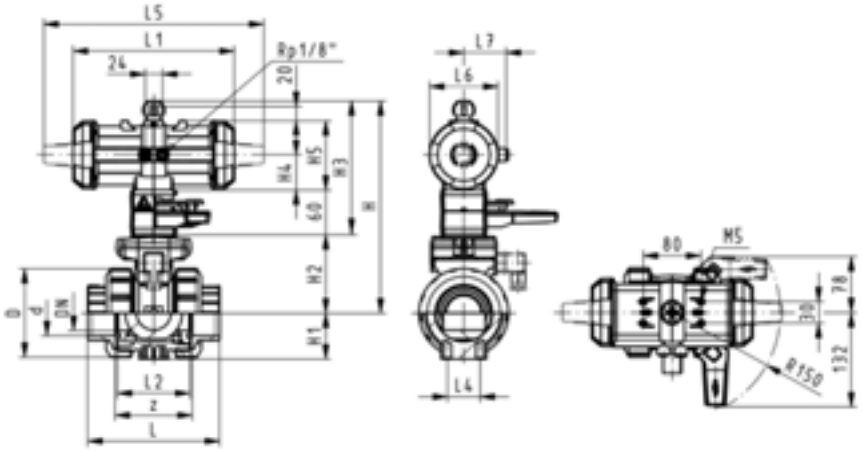
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 362** | **199 230 372** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 363** | **199 230 373** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 364** | **199 230 374** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 365** | **199 230 375** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 366** | **199 230 376** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 367** | **199 230 377** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 368** | **199 230 378** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## With manual override
## With fixed flanges serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

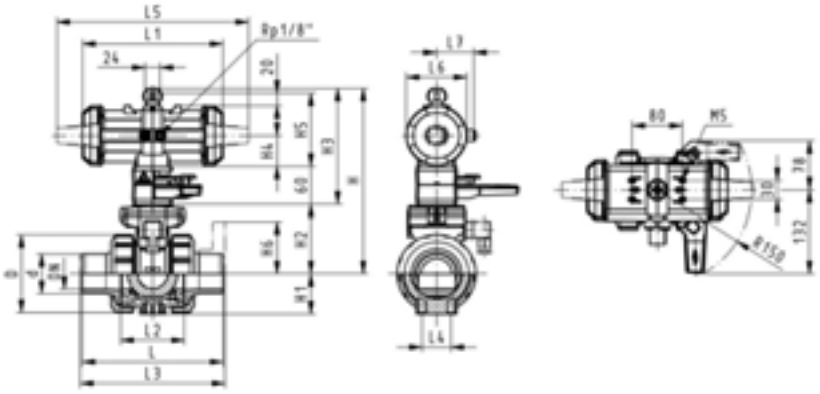
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 243** | **199 230 253** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 230 244** | **199 230 254** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 230 245** | **199 230 255** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 246** | **199 230 256** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 247** | **199 230 257** | 3.800 |
| 63 | 50 | 2 | 10 | 3100 | **199 230 248** | **199 230 258** | 4.900 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PVC-U

## Ball valve type 234 PVC-U FO (Fail safe to open)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

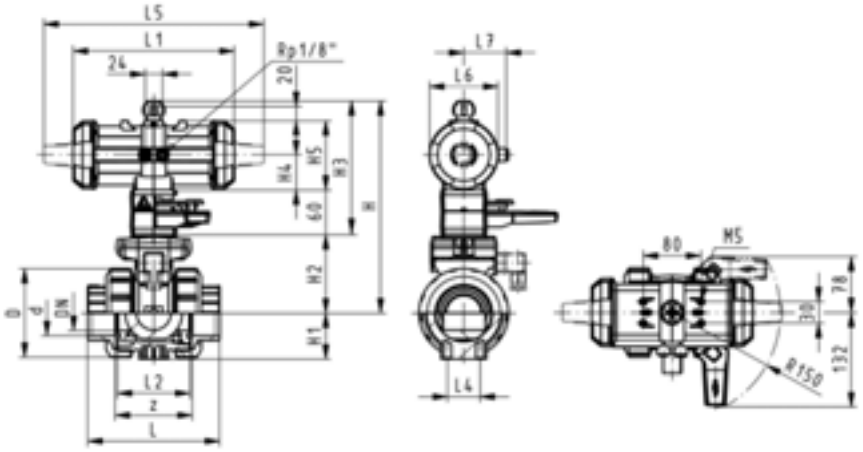
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 042** | **199 234 052** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 043** | **199 234 053** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 044** | **199 234 054** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 045** | **199 234 055** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 046** | **199 234 056** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 047** | **199 234 057** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 048** | **199 234 058** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## With manual override
## With solvent cement sockets metric

**Model:**

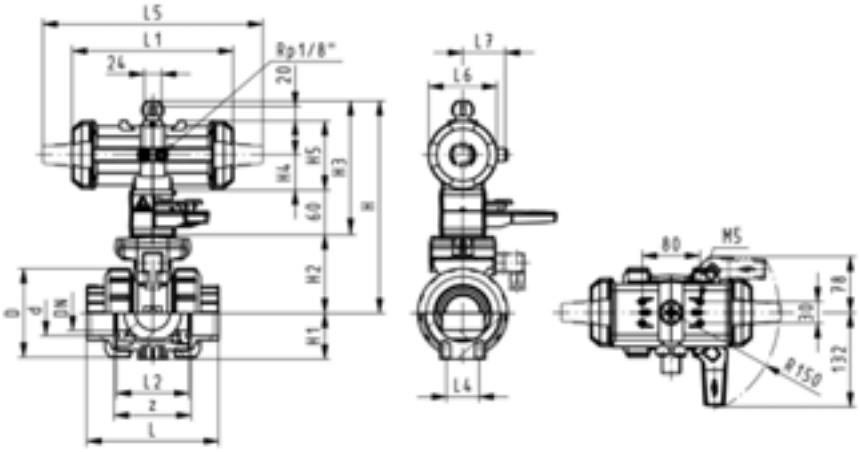
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 042** | **199 230 052** | 1.459 | |
| 20 | 15 | 10 | 185 | **199 230 043** | **199 230 053** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 044** | **199 230 054** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 045** | **199 230 055** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 046** | **199 230 056** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 047** | **199 230 057** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 048** | **199 230 058** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## With manual override
## With solvent cement spigots metric

**Model:**

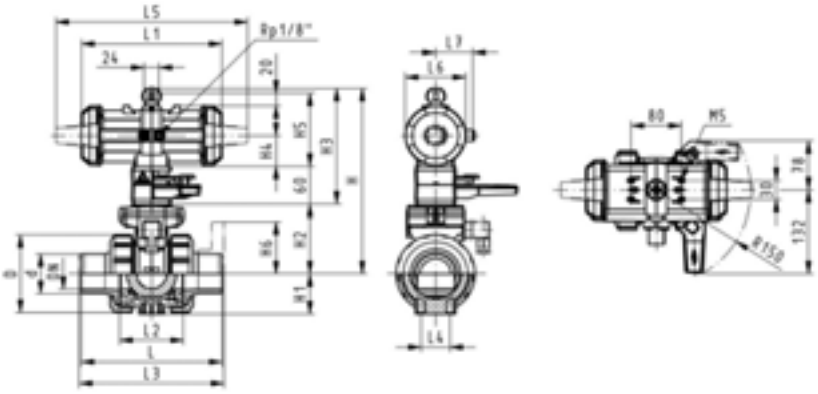
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 062** | **199 230 072** | 1.459 | |
| 20 | 15 | 10 | 185 | **199 230 063** | **199 230 073** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 064** | **199 230 074** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 065** | **199 230 075** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 066** | **199 230 076** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 067** | **199 230 077** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 068** | **199 230 078** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## With manual override
## With threaded sockets Rp

**Model:**

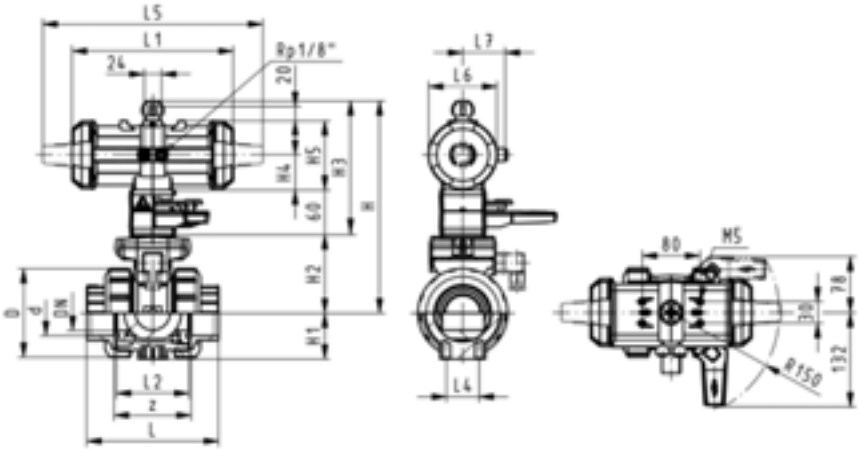
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 382** | **199 230 392** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 383** | **199 230 393** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 384** | **199 230 394** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 385** | **199 230 395** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 386** | **199 230 396** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 387** | **199 230 397** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 388** | **199 230 398** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## With manual override
## With fixed flanges serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

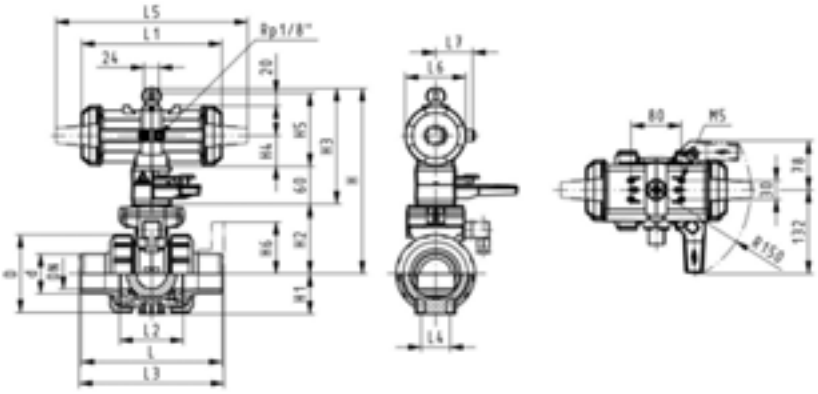
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 263** | **199 230 273** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 230 264** | **199 230 274** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 230 265** | **199 230 275** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 266** | **199 230 276** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 267** | **199 230 277** | 3.800 | |
| 63 | 50 | 2 | 10 | 3100 | **199 230 268** | **199 230 278** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PVC-U

## Ball valve type 234 PVC-U DA (Double acting)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

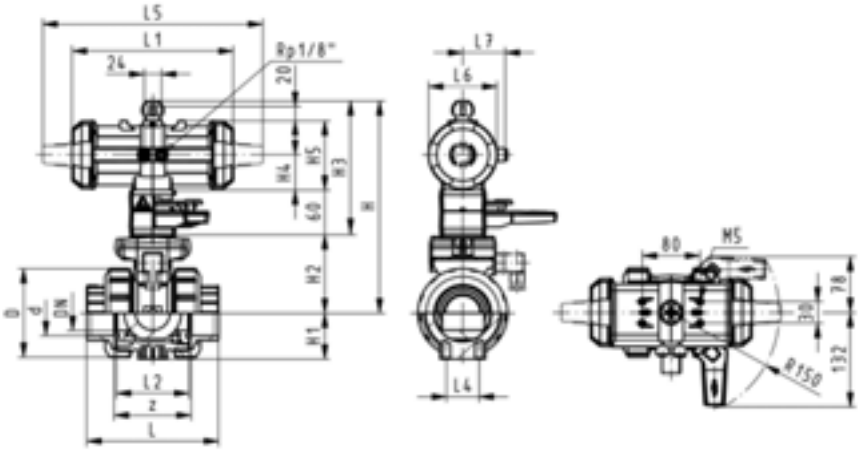
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 082** | **199 234 092** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 083** | **199 234 093** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 084** | **199 234 094** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 085** | **199 234 095** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 086** | **199 234 096** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 087** | **199 234 097** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 088** | **199 234 098** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



## Ball valve type 230 PVC-U DA (Double acting)
## With manual override
## With solvent cement sockets metric

**Model:**

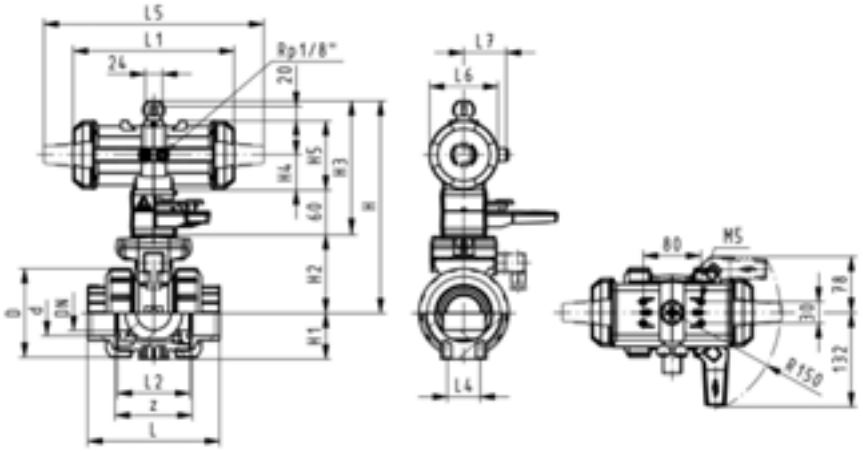
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 082** | **199 230 092** | 1.459 | |
| 20 | 15 | 10 | 185 | **199 230 083** | **199 230 093** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 084** | **199 230 094** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 085** | **199 230 095** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 086** | **199 230 096** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 087** | **199 230 097** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 088** | **199 230 098** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## With manual override
## With solvent cement spigots metric

**Model:**

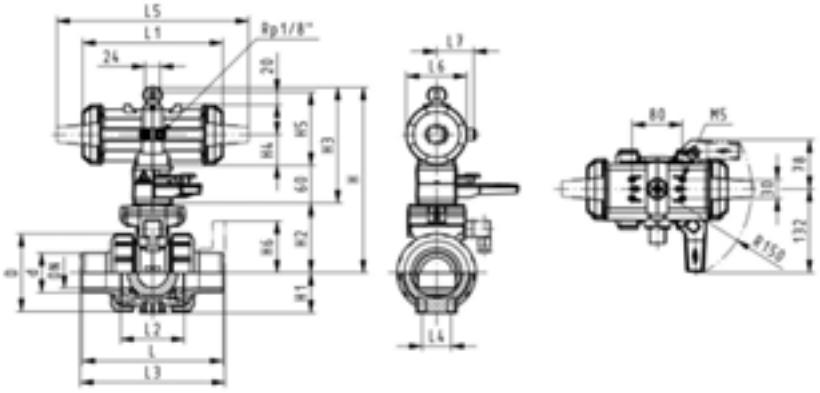
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 102** | **199 230 112** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 103** | **199 230 113** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 104** | **199 230 114** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 105** | **199 230 115** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 106** | **199 230 116** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 107** | **199 230 117** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 108** | **199 230 118** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## With manual override
## With threaded sockets Rp

**Model:**

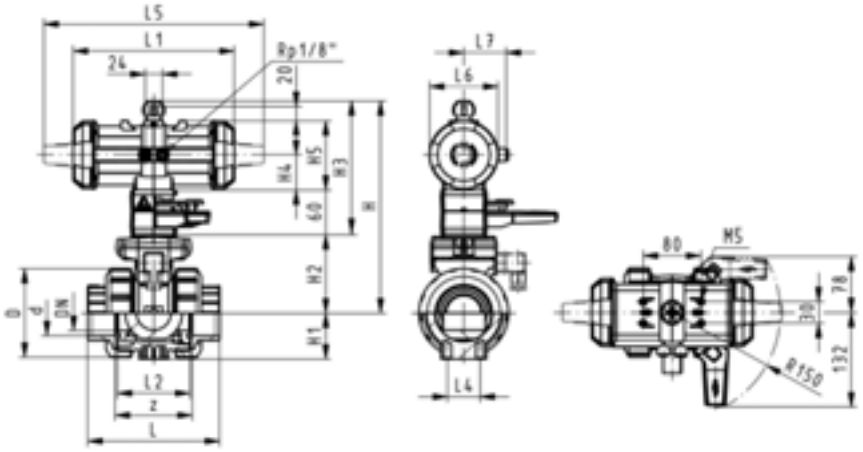
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 642** | **199 230 652** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 643** | **199 230 653** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 644** | **199 230 654** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 645** | **199 230 655** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 646** | **199 230 656** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 647** | **199 230 657** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 648** | **199 230 658** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## With manual override
## With fixed flanges serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

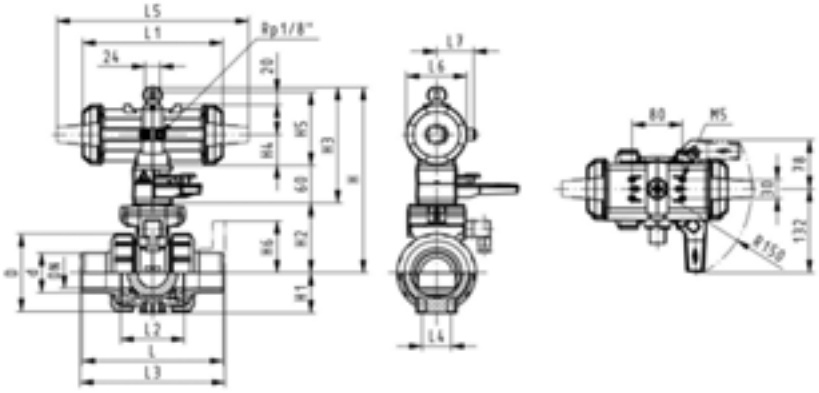
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 283** | **199 230 293** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 230 284** | **199 230 294** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 230 285** | **199 230 295** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 286** | **199 230 296** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 287** | **199 230 297** | 3.800 |
| 63 | 50 | 2 | 10 | 3100 | **199 230 288** | **199 230 298** | 4.900 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PVC-U

## Ball valve type 234 PVC-U FC (Fail safe to close)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

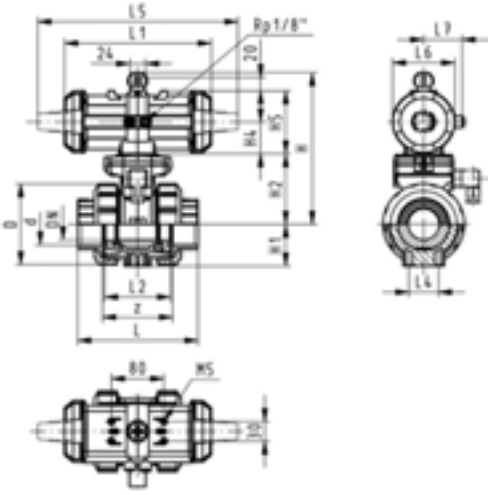
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 122** | **199 234 132** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 123** | **199 234 133** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 124** | **199 234 134** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 125** | **199 234 135** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 126** | **199 234 136** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 127** | **199 234 137** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 128** | **199 234 138** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## Without manual override
## With solvent cement sockets metric

**Model:**

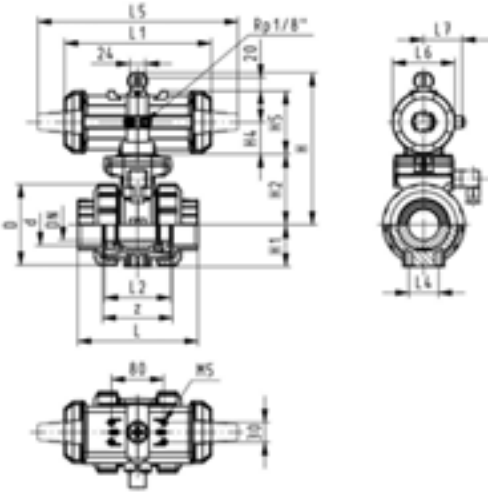
- Assignment of actuators PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA35 (DN80), PA40 (DN100)
- For easy installation and removal
- Image and drawing DN65-100 see chapter "type 230 DN65-100"
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 122** | **199 230 132** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 123** | **199 230 133** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 124** | **199 230 134** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 125** | **199 230 135** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 126** | **199 230 136** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 127** | **199 230 137** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 128** | **199 230 138** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## Without manual override
## With solvent cement spigots metric

**Model:**

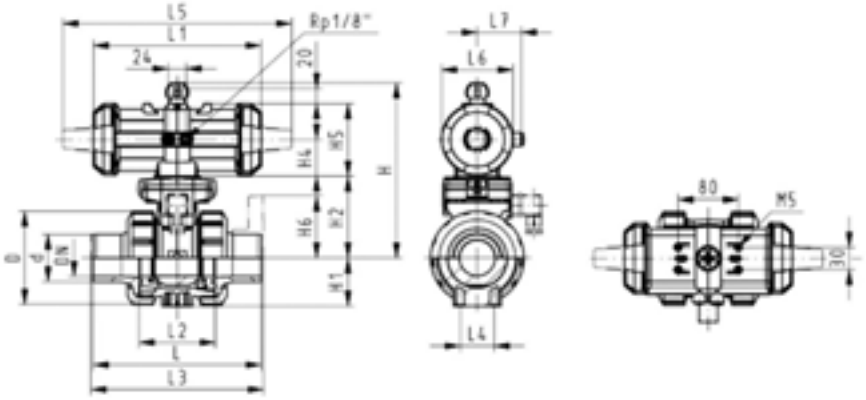
- Assignment of actuators PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA35 (DN80), PA40 (DN100)
- For easy installation and removal
- Image and drawing DN65-100 see chapter "type 230 DN65-100"
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 142** | **199 230 152** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 143** | **199 230 153** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 144** | **199 230 154** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 145** | **199 230 155** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 146** | **199 230 156** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 147** | **199 230 157** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 148** | **199 230 158** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 0 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## Without manual override
## With threaded sockets Rp

**Model:**

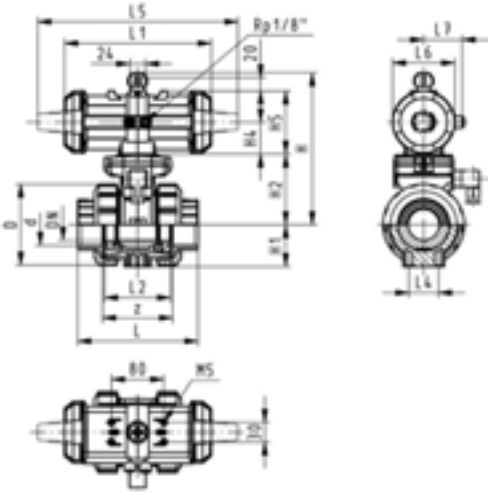
- Assignment of actuators PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA35 (DN80), PA40 (DN100)
- For easy installation and removal
- Image and drawing DN65-100 see chapter "type 230 DN65-100"
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 662** | **199 230 672** | 1.200 | |
| ½ | 15 | 10 | 185 | **199 230 663** | **199 230 673** | 1.200 | |
| ¾ | 20 | 10 | 350 | **199 230 664** | **199 230 674** | 1.300 | |
| 1 | 25 | 10 | 700 | **199 230 665** | **199 230 675** | 1.400 | |
| 1 ¼ | 32 | 10 | 1000 | **199 230 666** | **199 230 676** | 2.500 | |
| 1 ½ | 40 | 10 | 1600 | **199 230 667** | **199 230 677** | 2.800 | |
| 2 | 50 | 10 | 3100 | **199 230 668** | **199 230 678** | 3.700 | |

| Rp [inch] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FC (Fail safe to close)
## Without manual override
## With fixed flanges serrated metric

**Model:**

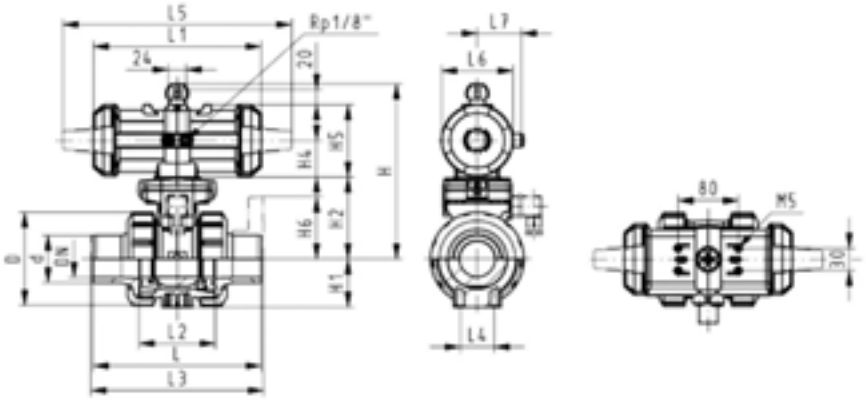
- Assignment of actuators PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA35 (DN80), PA40 (DN100)
- For easy installation and removal
- Image and drawing DN65-100 see chapter "type 230 DN65-100"
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 303** | **199 230 313** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 230 304** | **199 230 314** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 230 305** | **199 230 315** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 306** | **199 230 316** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 307** | **199 230 317** | 3.800 | |
| 63 | 50 | 2 | 10 | 3100 | **199 230 308** | **199 230 318** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 234 PVC-U FO (Fail safe to open)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

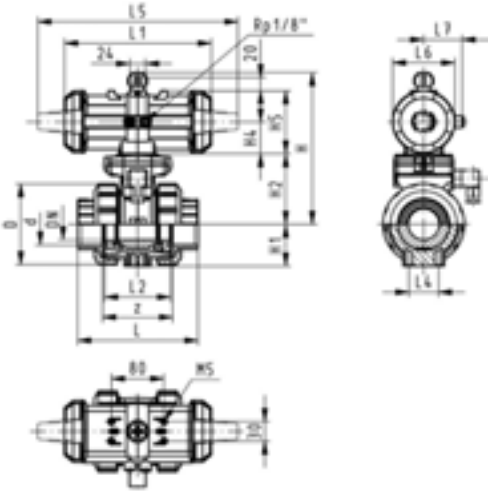
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 162** | **199 234 172** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 163** | **199 234 173** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 164** | **199 234 174** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 165** | **199 234 175** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 166** | **199 234 176** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 167** | **199 234 177** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 168** | **199 234 178** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## Without manual override
## With solvent cement sockets metric

**Model:**

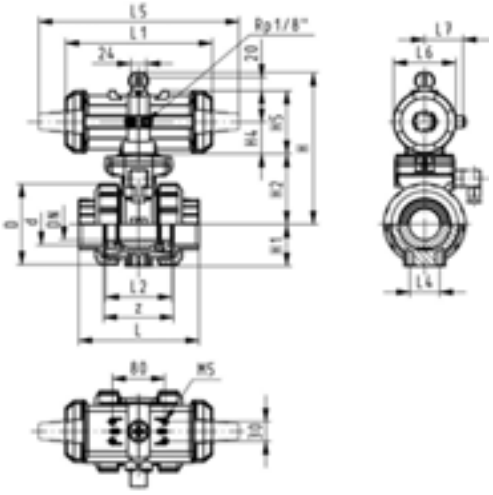
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 162** | **199 230 172** | 1.159 | |
| 20 | 15 | 10 | 185 | **199 230 163** | **199 230 173** | 1.159 | |
| 25 | 20 | 10 | 350 | **199 230 164** | **199 230 174** | 1.276 | |
| 32 | 25 | 10 | 700 | **199 230 165** | **199 230 175** | 1.400 | |
| 40 | 32 | 10 | 1000 | **199 230 166** | **199 230 176** | 2.451 | |
| 50 | 40 | 10 | 1600 | **199 230 167** | **199 230 177** | 2.773 | |
| 63 | 50 | 10 | 3100 | **199 230 168** | **199 230 178** | 3.631 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## Without manual override
## With solvent cement spigots metric

**Model:**

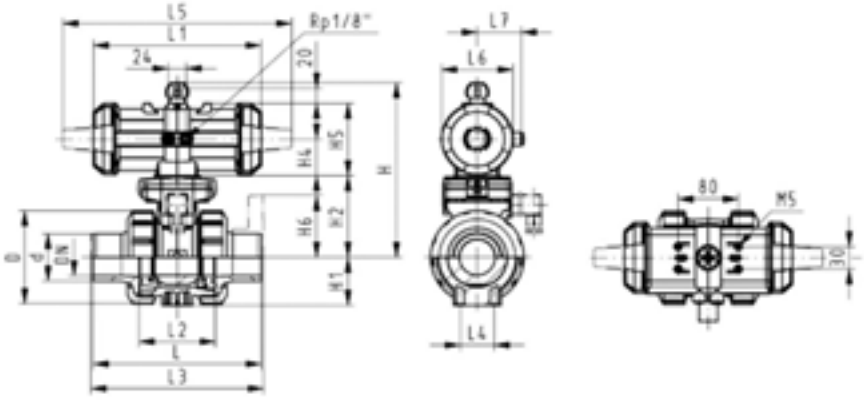
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 182** | **199 230 192** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 183** | **199 230 193** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 184** | **199 230 194** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 185** | **199 230 195** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 186** | **199 230 196** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 187** | **199 230 197** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 188** | **199 230 198** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 0 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## Without manual override
## With threaded sockets Rp

**Model:**

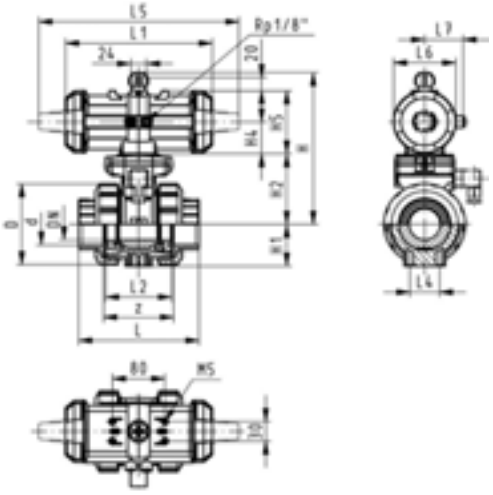
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 682** | **199 230 692** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 683** | **199 230 693** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 684** | **199 230 694** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 685** | **199 230 695** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 686** | **199 230 696** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 687** | **199 230 697** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 688** | **199 230 698** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U FO (Fail safe to open)
## Without manual override
## With fixed flanges serrated metric

**Model:**

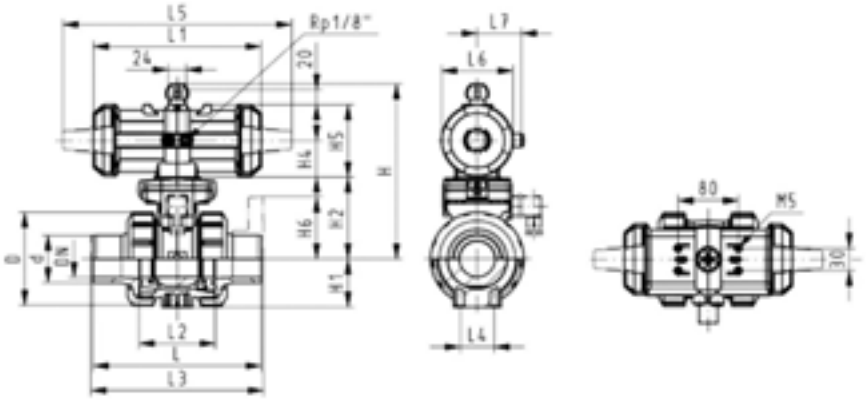
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 323** | **199 230 333** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 230 324** | **199 230 334** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 230 325** | **199 230 335** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 326** | **199 230 336** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 327** | **199 230 337** | 3.800 | |
| 63 | 50 | 2 | 10 | 3100 | **199 230 328** | **199 230 338** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 234 PVC-U DA (Double acting)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

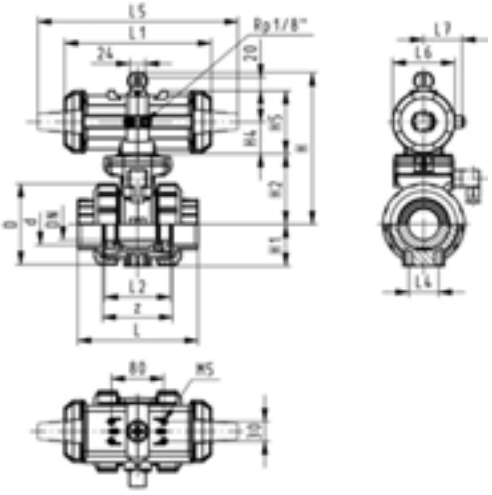
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 202** | **199 234 212** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 203** | **199 234 213** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 204** | **199 234 214** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 205** | **199 234 215** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 206** | **199 234 216** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 207** | **199 234 217** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 208** | **199 234 218** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## Without manual override
## With solvent cement sockets metric

**Model:**

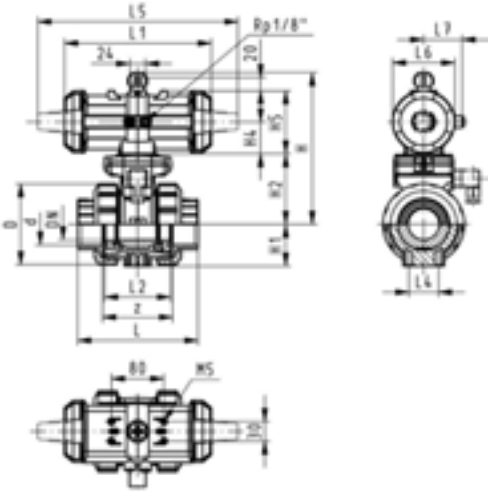
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 202** | **199 230 212** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 203** | **199 230 213** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 204** | **199 230 214** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 205** | **199 230 215** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 206** | **199 230 216** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 207** | **199 230 217** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 208** | **199 230 218** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## Without manual override
## With solvent cement spigots metric

**Model:**

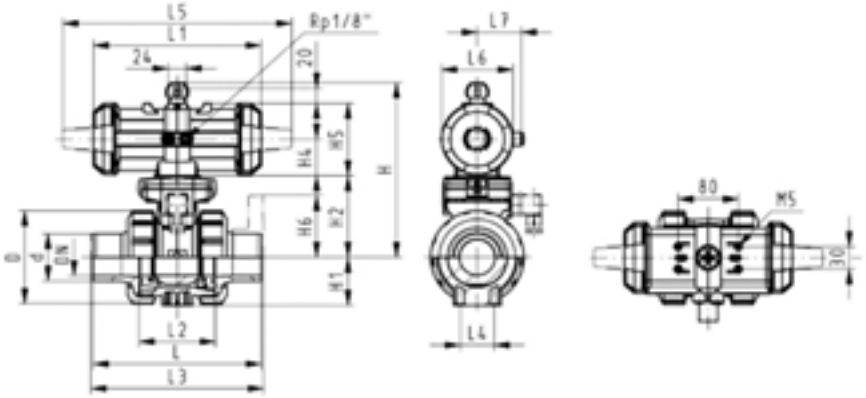
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 222** | **199 230 232** | 1.159 | |
| 20 | 15 | 10 | 185 | **199 230 223** | **199 230 233** | 1.159 | |
| 25 | 20 | 10 | 350 | **199 230 224** | **199 230 234** | 1.276 | |
| 32 | 25 | 10 | 700 | **199 230 225** | **199 230 235** | 1.400 | |
| 40 | 32 | 10 | 1000 | **199 230 226** | **199 230 236** | 2.451 | |
| 50 | 40 | 10 | 1600 | **199 230 227** | **199 230 237** | 2.773 | |
| 63 | 50 | 10 | 3100 | **199 230 228** | **199 230 238** | 3.631 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 0 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## Without manual override
## With threaded sockets Rp

**Model:**

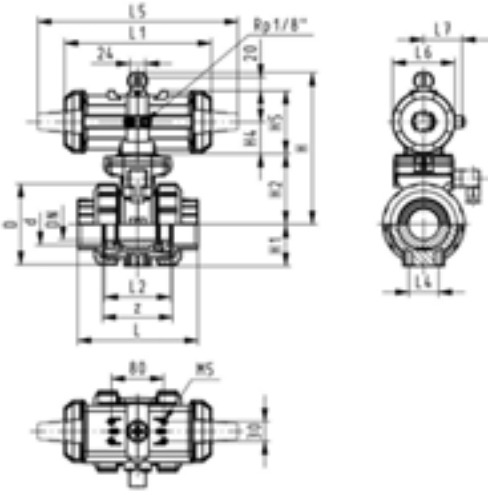
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 712** | **199 230 732** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 713** | **199 230 733** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 714** | **199 230 734** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 715** | **199 230 735** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 716** | **199 230 736** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 717** | **199 230 737** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 718** | **199 230 738** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-U

## Ball valve type 230 PVC-U DA (Double acting)
## Without manual override
## With fixed flanges metric

**Model:**

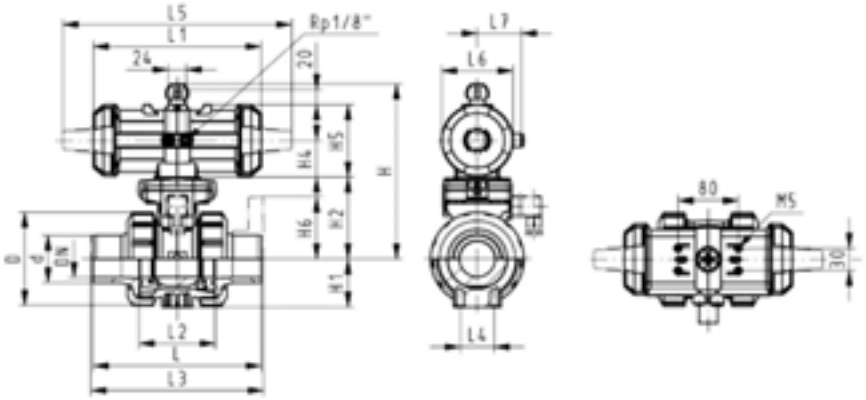
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 230 343** | **199 230 353** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 230 344** | **199 230 354** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 230 345** | **199 230 355** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 230 346** | **199 230 356** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 230 347** | **199 230 357** | 3.800 | |
| 63 | 50 | 2 | 10 | 3100 | **199 230 348** | **199 230 358** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-U

## Ball valve type 208 PVC-U FC (Fail safe to close)
## Without manual override
## Unions with solvent cement sockets Inch BS

**Model:**

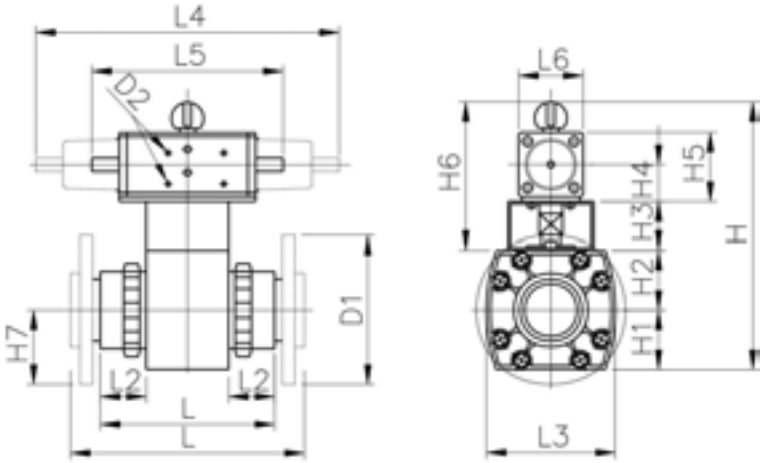
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | 5000 | **199 208 180** | **199 208 183** | 8.000 | |
| 3 | 80 | 10 | 7000 | **199 208 181** | **199 208 184** | 12.700 | |
| 4 | 100 | 10 | 11000 | **199 208 182** | **199 208 185** | 16.800 | |

| Inch | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 ½ | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | |
| 3 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | |
| 4 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | |



# PVC-U

## Ball valve type 208 PVC-U FC (Fail safe to close)
## Without manual override
## With flanges PP-V metric

**Model:**

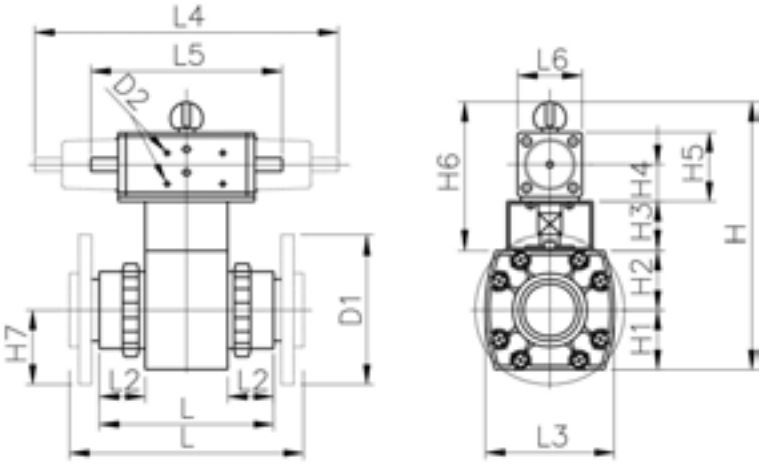
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 360** | **199 208 375** | 10.100 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 361** | **199 208 376** | 15.300 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 362** | **199 208 377** | 20.000 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 363** | **199 208 378** | 21.700 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 | |



# PVC-U

## Ball valve type 208 PVC-U FC (Fail safe to close)
## Without manual override
## With flanges PVC-U metric

**Model:**

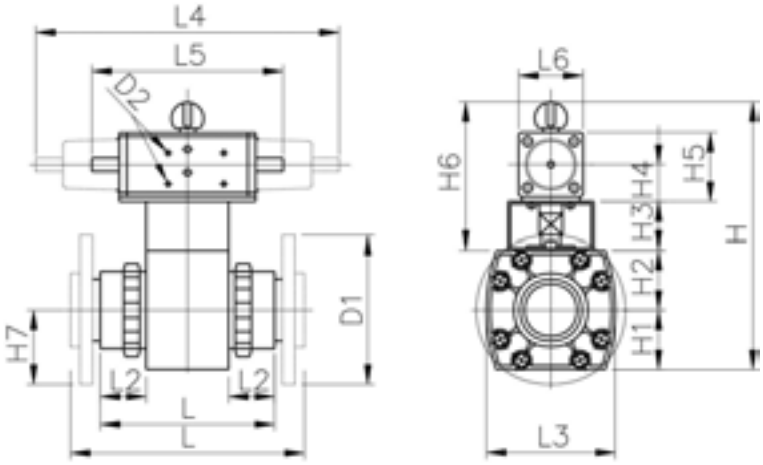
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 270** | **199 208 285** | 9.300 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 271** | **199 208 286** | 14.400 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 272** | **199 208 287** | 19.200 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 273** | **199 208 288** | 21.600 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 | |



# PVC-U

## Ball valve type 208 PVC-U FC (Fail safe to close)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

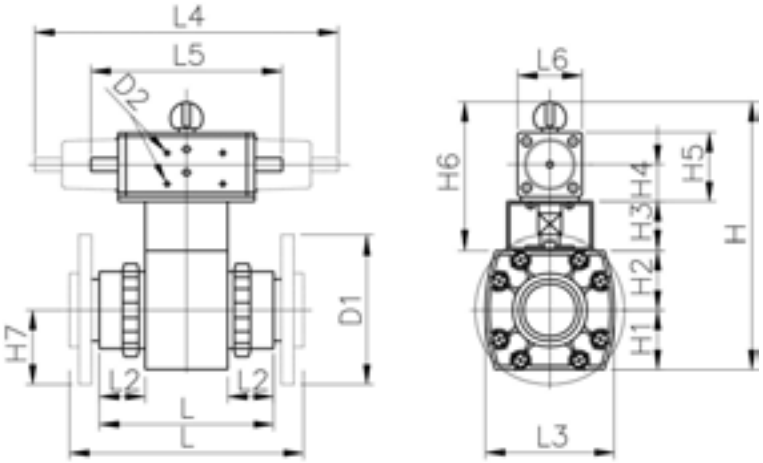
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 210** | **199 208 213** | 8.500 | |
| 90 | 80 | 10 | 7000 | **199 208 211** | **199 208 214** | 13.500 | |
| 110 | 100 | 10 | 11000 | **199 208 212** | **199 208 215** | 18.000 | |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | |



# PVC-U

## Ball valve type 208 PVC-U FO (Fail safe to open)
## Without manual override
## Unions with solvent cement sockets Inch BS

**Model:**

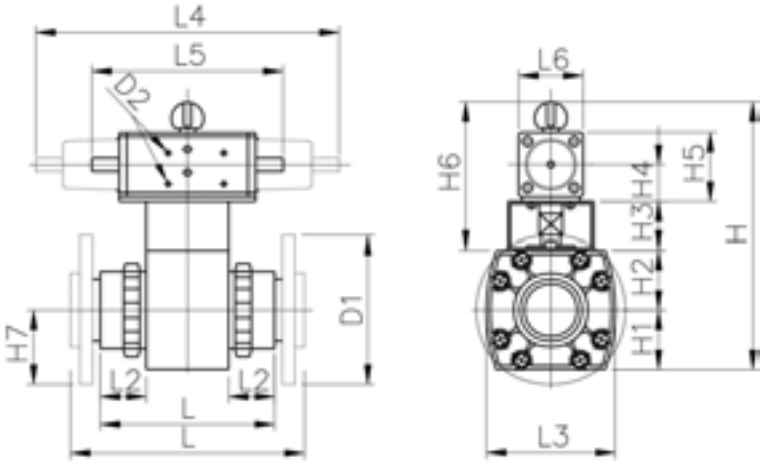
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | 5000 | **199 208 190** | **199 208 193** | 8.000 | |
| 3 | 80 | 10 | 7000 | **199 208 191** | **199 208 194** | 12.700 | |
| 4 | 110 | 10 | 11000 | **199 208 192** | **199 208 195** | 16.800 | |

| Inch | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 ½ | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | |
| 3 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | |
| 4 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | |



# PVC-U

## Ball valve type 208 PVC-U FO (Fail safe to open)
## Without manual override
## With flanges PP-V metric

**Model:**

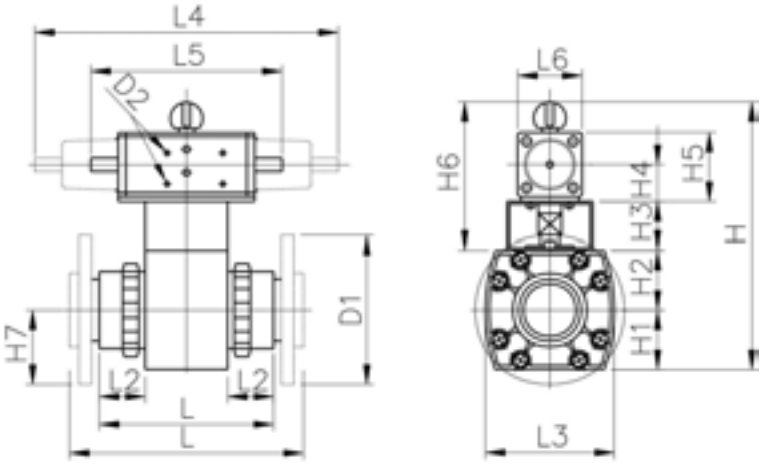
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 390** | **199 208 405** | 10.100 |
| 90 | 80 | 3 | 10 | 7000 | **199 208 391** | **199 208 406** | 15.300 |
| 110 | 100 | 4 | 10 | 11000 | **199 208 392** | **199 208 407** | 20.000 |
| 160 | 150 | 6 | 10 | 16000 | **199 208 393** | **199 208 408** | 21.700 |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 |



# PVC-U

## Ball valve type 208 PVC-U FO (Fail safe to open)
## Without manual override
## With flanges PVC-U metric

**Model:**

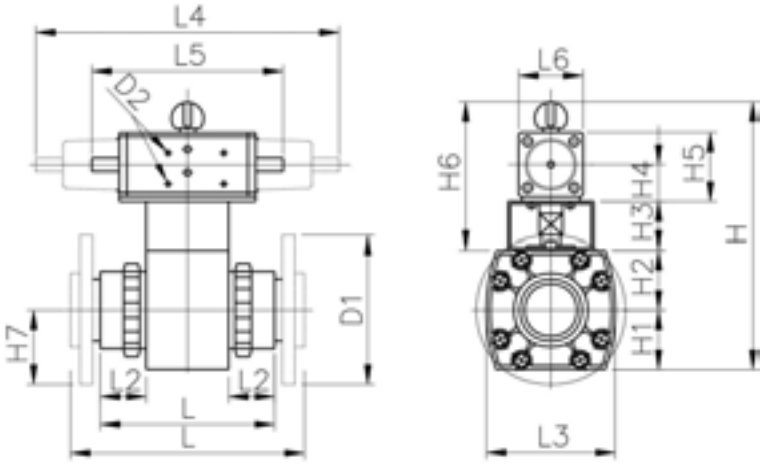
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 300** | **199 208 315** | 9.300 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 301** | **199 208 316** | 14.400 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 302** | **199 208 317** | 19.200 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 303** | **199 208 318** | 21.600 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 | |



# PVC-U

## Ball valve type 208 PVC-U FO (Fail safe to open)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

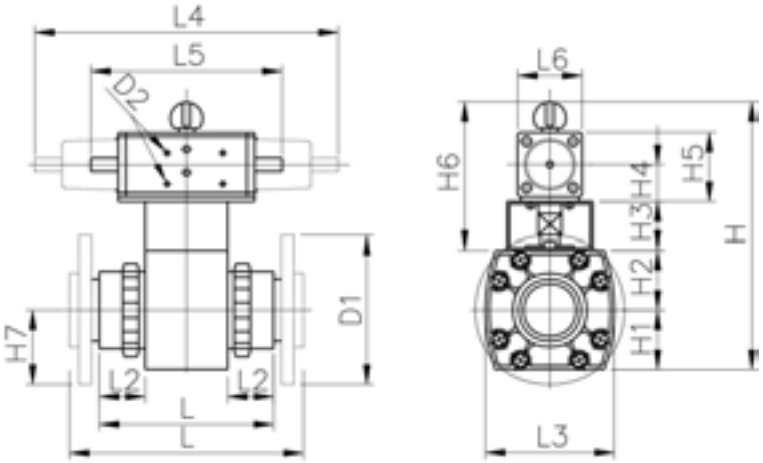
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 220** | **199 208 223** | 8.500 | |
| 90 | 80 | 10 | 7000 | **199 208 221** | **199 208 224** | 13.500 | |
| 110 | 110 | 10 | 11000 | **199 208 222** | **199 208 225** | 18.000 | |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | |



# PVC-U

## Ball valve type 208 PVC-U DA (Double acting)
## Without manual override
## Unions with solvent cement sockets Inch BS

**Model:**

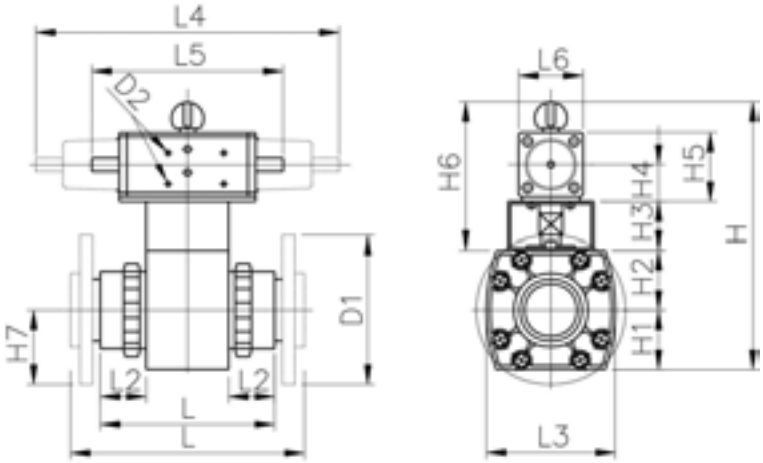
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 2 ½ | 65 | 10 | 5000 | **199 208 200** | **199 208 203** | 5.100 | |
| 3 | 80 | 10 | 7000 | **199 208 201** | **199 208 204** | 8.000 | |
| 4 | 100 | 10 | 11000 | **199 208 202** | **199 208 205** | 12.100 | |

| Inch | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 ½ | ⅛ | 233 | 72 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | |
| 3 | ⅛ | 267 | 82 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | |
| 4 | ⅛ | 318 | 95 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | |



# PVC-U

## Ball valve type 208 PVC-U DA (Double acting)
## Without manual override
## With flanges PP-V metric

**Model:**

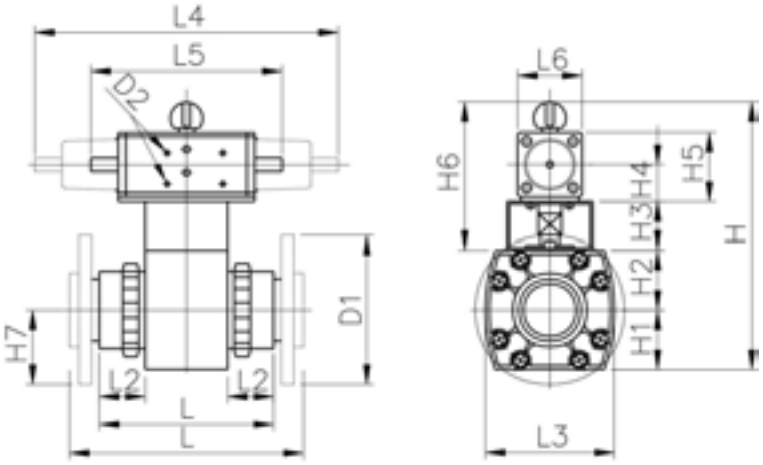
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 420** | **199 208 435** | 7.200 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 421** | **199 208 436** | 10.600 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 422** | **199 208 437** | 15.300 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 423** | **199 208 438** | 17.000 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 143 | |



# PVC-U

## Ball valve type 208 PVC-U DA (Double acting)
## Without manual override
## With flanges PVC-U metric

**Model:**

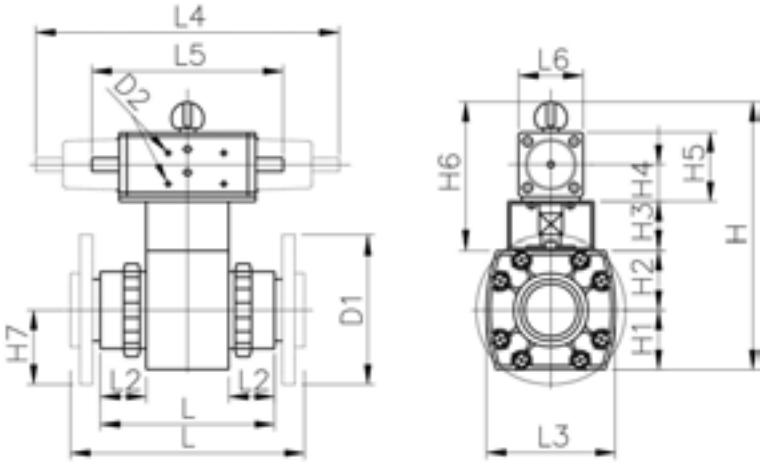
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 330** | **199 208 345** | 6.400 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 331** | **199 208 346** | 9.700 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 332** | **199 208 347** | 14.500 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 333** | **199 208 348** | 16.900 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 143 | |



# PVC-U

## Ball valve type 208 PVC-U DA (Double acting)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

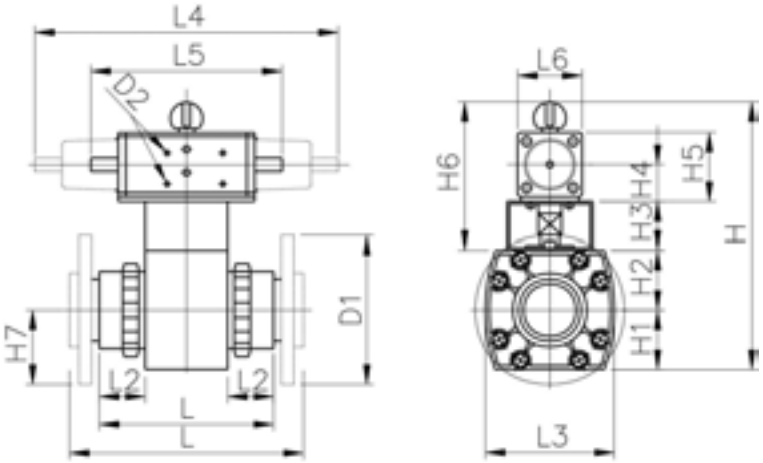
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 230** | **199 208 233** | 5.600 | |
| 90 | 80 | 10 | 7000 | **199 208 231** | **199 208 234** | 8.800 | |
| 110 | 100 | 10 | 11000 | **199 208 232** | **199 208 235** | 12.100 | |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | |
| 90 | ⅛ | 267 | 82 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | |
| 110 | ⅛ | 318 | 95 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | |



## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port
## Without manual override
## With solvent cement sockets Inch BS

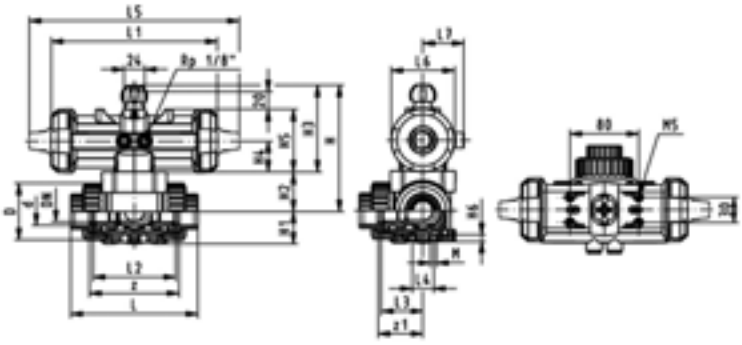
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 50 | **199 275 742** | **199 275 752** | 1.114 |
| ½ | 15 | 10 | 75 | **199 275 743** | **199 275 753** | 1.114 |
| ¾ | 20 | 10 | 150 | **199 275 744** | **199 275 754** | 1.296 |
| 1 | 25 | 10 | 280 | **199 275 745** | **199 275 755** | 1.467 |
| 1 ¼ | 32 | 10 | 480 | **199 275 746** | **199 275 756** | 2.484 |
| 1 ½ | 40 | 10 | 620 | **199 275 747** | **199 275 757** | 3.028 |
| 2 | 50 | 10 | 1230 | **199 275 748** | **199 275 758** | 4.397 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| ½ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| ¾ | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 1 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 1 ¼ | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 1 ½ | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 2 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| Inch | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 48 | 6 | 80 | 40 |
| ½ | 48 | 6 | 80 | 40 |
| ¾ | 48 | 6 | 94 | 47 |
| 1 | 48 | 6 | 104 | 52 |
| 1 ¼ | 59 | 8 | 126 | 63 |
| 1 ½ | 59 | 8 | 144 | 72 |
| 2 | 59 | 8 | 186 | 93 |



## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port
## Without manual override
## With solvent cement sockets metric

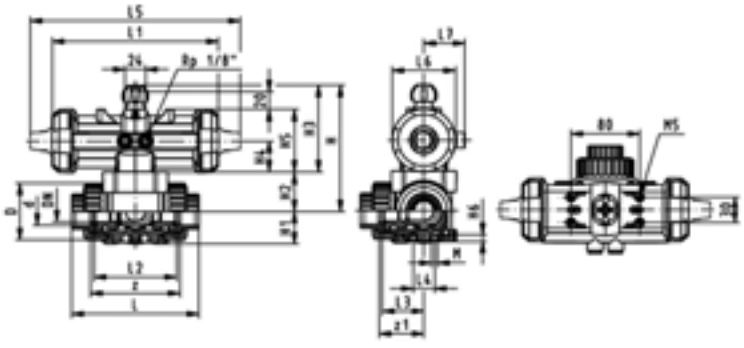
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°⟨) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 022** | **199 275 032** | 1.114 |
| 20 | 15 | 10 | 75 | **199 275 023** | **199 275 033** | 1.114 |
| 25 | 20 | 10 | 150 | **199 275 024** | **199 275 034** | 1.296 |
| 32 | 25 | 10 | 280 | **199 275 025** | **199 275 035** | 1.467 |
| 40 | 32 | 10 | 480 | **199 275 026** | **199 275 036** | 2.484 |
| 50 | 40 | 10 | 620 | **199 275 027** | **199 275 037** | 3.028 |
| 63 | 50 | 10 | 1230 | **199 275 028** | **199 275 038** | 4.397 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port
## Without manual override
## With solvent cement spigots metric

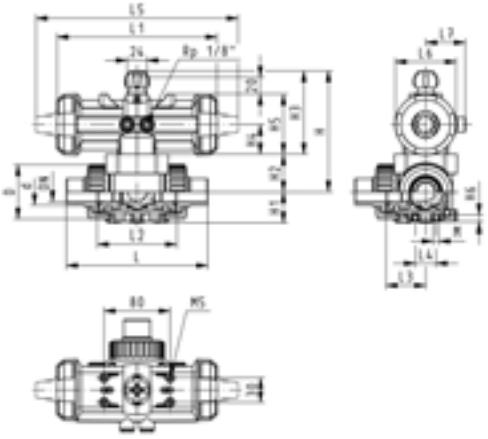
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 002** | **199 275 012** | 1.114 |
| 20 | 15 | 10 | 75 | **199 275 003** | **199 275 013** | 1.114 |
| 25 | 20 | 10 | 150 | **199 275 004** | **199 275 014** | 1.296 |
| 32 | 25 | 10 | 280 | **199 275 005** | **199 275 015** | 1.467 |
| 40 | 32 | 10 | 480 | **199 275 006** | **199 275 016** | 2.484 |
| 50 | 40 | 10 | 620 | **199 275 007** | **199 275 017** | 3.028 |
| 63 | 50 | 10 | 1230 | **199 275 008** | **199 275 018** | 4.397 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 124 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 134 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 156 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 172 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 202 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 238 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 290 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port DA (Double acting)
## Without manual override
## With solvent cement sockets Inch BS

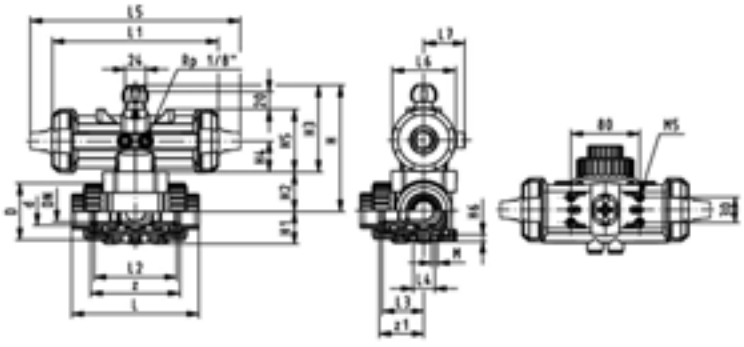
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 50 | **199 275 762** | **199 275 772** | 0.924 |
| ½ | 15 | 10 | 75 | **199 275 763** | **199 275 773** | 0.924 |
| ¾ | 20 | 10 | 150 | **199 275 764** | **199 275 774** | 1.106 |
| 1 | 25 | 10 | 280 | **199 275 765** | **199 275 775** | 1.277 |
| 1 ¼ | 32 | 10 | 480 | **199 275 766** | **199 275 776** | 2.060 |
| 1 ½ | 40 | 10 | 620 | **199 275 767** | **199 275 777** | 2.604 |
| 2 | 50 | 10 | 1230 | **199 275 768** | **199 275 778** | 3.973 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| ½ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| ¾ | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 1 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 1 ¼ | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 1 ½ | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 2 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| Inch | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 48 | 6 | 80 | 40 |
| ½ | 48 | 6 | 80 | 40 |
| ¾ | 48 | 6 | 94 | 47 |
| 1 | 48 | 6 | 104 | 52 |
| 1 ¼ | 59 | 8 | 126 | 63 |
| 1 ½ | 59 | 8 | 144 | 72 |
| 2 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

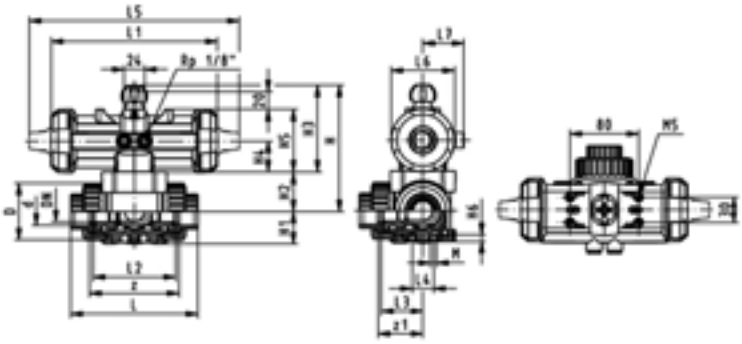
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 202** | **199 275 212** | 0.924 |
| 20 | 15 | 10 | 75 | **199 275 203** | **199 275 213** | 0.924 |
| 25 | 20 | 10 | 150 | **199 275 204** | **199 275 214** | 1.106 |
| 32 | 25 | 10 | 280 | **199 275 205** | **199 275 215** | 1.277 |
| 40 | 32 | 10 | 480 | **199 275 206** | **199 275 216** | 2.060 |
| 50 | 40 | 10 | 620 | **199 275 207** | **199 275 217** | 2.604 |
| 63 | 50 | 10 | 1230 | **199 275 208** | **199 275 218** | 3.973 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/L-port DA (Double acting)
## Without manual override
## With solvent cement spigots metric

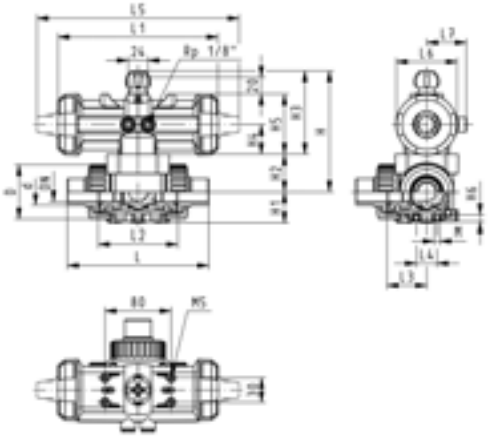
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 182** | **199 275 192** | 0.924 |
| 20 | 15 | 10 | 75 | **199 275 183** | **199 275 193** | 0.924 |
| 25 | 20 | 10 | 150 | **199 275 184** | **199 275 194** | 1.106 |
| 32 | 25 | 10 | 280 | **199 275 185** | **199 275 195** | 1.277 |
| 40 | 32 | 10 | 480 | **199 275 186** | **199 275 196** | 2.060 |
| 50 | 40 | 10 | 620 | **199 275 187** | **199 275 197** | 2.604 |
| 63 | 50 | 10 | 1230 | **199 275 188** | **199 275 198** | 3.973 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 124 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 134 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 156 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 172 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 202 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 238 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 290 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port
## Without manual override
## With solvent cement sockets Inch BS

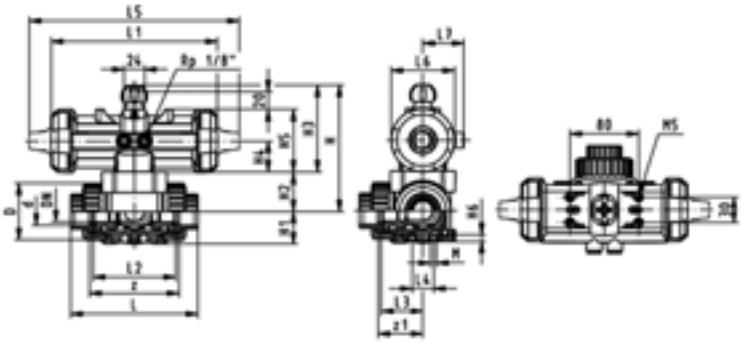
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 140 | **199 275 702** | **199 275 712** | 1.114 |
| ½ | 15 | 10 | 200 | **199 275 703** | **199 275 713** | 1.114 |
| ¾ | 20 | 10 | 470 | **199 275 704** | **199 275 714** | 1.296 |
| 1 | 25 | 10 | 793 | **199 275 705** | **199 275 715** | 1.467 |
| 1 ¼ | 32 | 10 | 1290 | **199 275 706** | **199 275 716** | 2.484 |
| 1 ½ | 40 | 10 | 1910 | **199 275 707** | **199 275 717** | 3.028 |
| 2 | 50 | 10 | 3100 | **199 275 708** | **199 275 718** | 4.397 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| ½ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| ¾ | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 1 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 1 ¼ | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 1 ½ | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 2 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| Inch | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 48 | 6 | 80 | 40 |
| ½ | 48 | 6 | 80 | 40 |
| ¾ | 48 | 6 | 94 | 47 |
| 1 | 48 | 6 | 104 | 52 |
| 1 ¼ | 59 | 8 | 126 | 63 |
| 1 ½ | 59 | 8 | 144 | 72 |
| 2 | 59 | 8 | 186 | 93 |



## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port
## Without manual override
## With solvent cement sockets metric

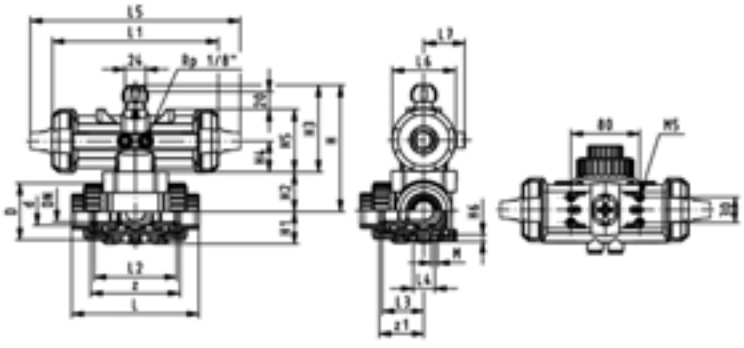
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- For easy installation and removal
- Control time 90°< ) 1-3 s
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 062** | **199 275 072** | 1.114 |
| 20 | 15 | 10 | 200 | **199 275 063** | **199 275 073** | 1.114 |
| 25 | 20 | 10 | 470 | **199 275 064** | **199 275 074** | 1.296 |
| 32 | 25 | 10 | 793 | **199 275 065** | **199 275 075** | 1.467 |
| 40 | 32 | 10 | 1290 | **199 275 066** | **199 275 076** | 2.484 |
| 50 | 40 | 10 | 1910 | **199 275 067** | **199 275 077** | 3.028 |
| 63 | 50 | 10 | 3100 | **199 275 068** | **199 275 078** | 4.397 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port
## Without manual override
## With solvent cement spigots metric

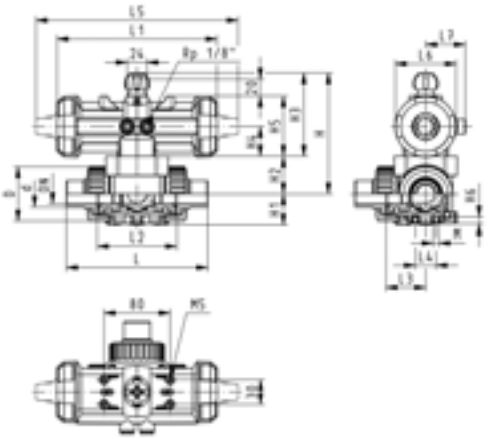
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- For easy installation and removal
- Control time 90°<) 1-3 s
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 042** | **199 275 052** | 1.114 |
| 20 | 15 | 10 | 200 | **199 275 043** | **199 275 053** | 1.114 |
| 25 | 20 | 10 | 470 | **199 275 044** | **199 275 054** | 1.296 |
| 32 | 25 | 10 | 793 | **199 275 045** | **199 275 055** | 1.467 |
| 40 | 32 | 10 | 1290 | **199 275 046** | **199 275 056** | 2.484 |
| 50 | 40 | 10 | 1910 | **199 275 047** | **199 275 057** | 3.028 |
| 63 | 50 | 10 | 3100 | **199 275 048** | **199 275 058** | 4.397 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 124 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 134 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 156 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 172 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 202 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 238 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 290 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port DA (Double acting)
## Without manual override
## With solvent cement sockets Inch BS

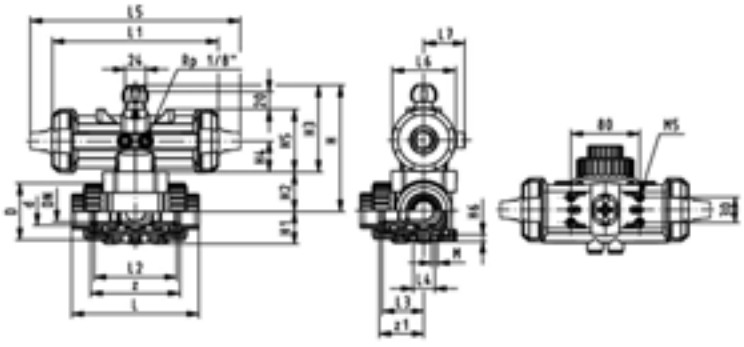
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 140 | **199 275 722** | **199 275 732** | 0.924 |
| ½ | 15 | 10 | 200 | **199 275 723** | **199 275 733** | 0.924 |
| ¾ | 20 | 10 | 470 | **199 275 724** | **199 275 734** | 1.106 |
| 1 | 25 | 10 | 793 | **199 275 725** | **199 275 735** | 1.277 |
| 1 ¼ | 32 | 10 | 1290 | **199 275 726** | **199 275 736** | 2.060 |
| 1 ½ | 40 | 10 | 1910 | **199 275 727** | **199 275 737** | 2.604 |
| 2 | 50 | 10 | 3100 | **199 275 728** | **199 275 738** | 3.973 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| ½ | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| ¾ | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 1 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 1 ¼ | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 1 ½ | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 2 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| Inch | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| ⅜ | 48 | 6 | 80 | 40 |
| ½ | 48 | 6 | 80 | 40 |
| ¾ | 48 | 6 | 94 | 47 |
| 1 | 48 | 6 | 104 | 52 |
| 1 ¼ | 59 | 8 | 126 | 63 |
| 1 ½ | 59 | 8 | 144 | 72 |
| 2 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

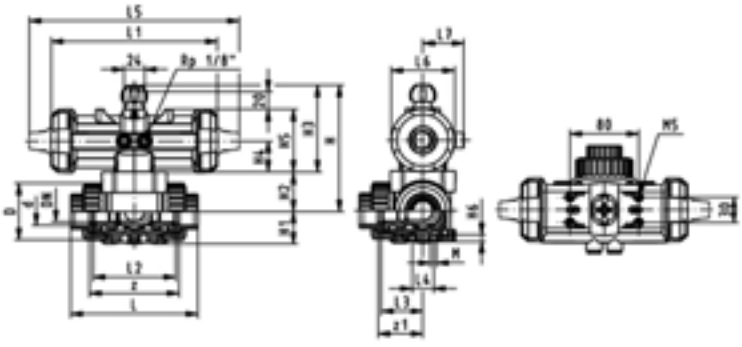
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 242** | **199 275 252** | 0.924 |
| 20 | 15 | 10 | 200 | **199 275 243** | **199 275 253** | 0.924 |
| 25 | 20 | 10 | 470 | **199 275 244** | **199 275 254** | 1.106 |
| 32 | 25 | 10 | 793 | **199 275 245** | **199 275 255** | 1.277 |
| 40 | 32 | 10 | 1290 | **199 275 246** | **199 275 256** | 2.060 |
| 50 | 40 | 10 | 1910 | **199 275 247** | **199 275 257** | 2.604 |
| 63 | 50 | 10 | 3100 | **199 275 248** | **199 275 258** | 3.973 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-U

## 3-Way ball valve type 275 PVC-U
## Horizontal/T-port DA (Double acting)
## Without manual override
## With solvent cement spigots metric

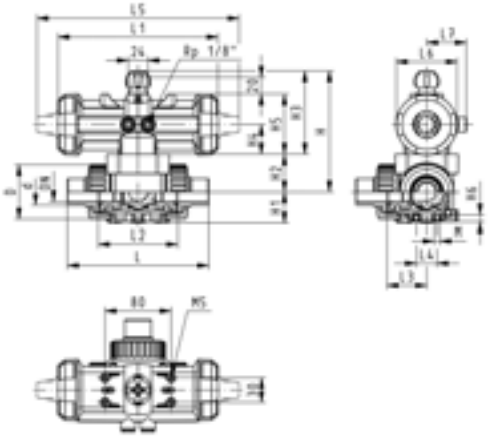
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°⊲) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 222** | **199 275 232** | 0.924 |
| 20 | 15 | 10 | 200 | **199 275 223** | **199 275 233** | 0.924 |
| 25 | 20 | 10 | 470 | **199 275 224** | **199 275 234** | 1.106 |
| 32 | 25 | 10 | 793 | **199 275 225** | **199 275 235** | 1.277 |
| 40 | 32 | 10 | 1290 | **199 275 226** | **199 275 236** | 2.060 |
| 50 | 40 | 10 | 1910 | **199 275 227** | **199 275 237** | 2.604 |
| 63 | 50 | 10 | 3100 | **199 275 228** | **199 275 238** | 3.973 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 124 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 134 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 53 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 156 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 172 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 202 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 238 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 290 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PVC-U

# Diaphragm valves pneumatic

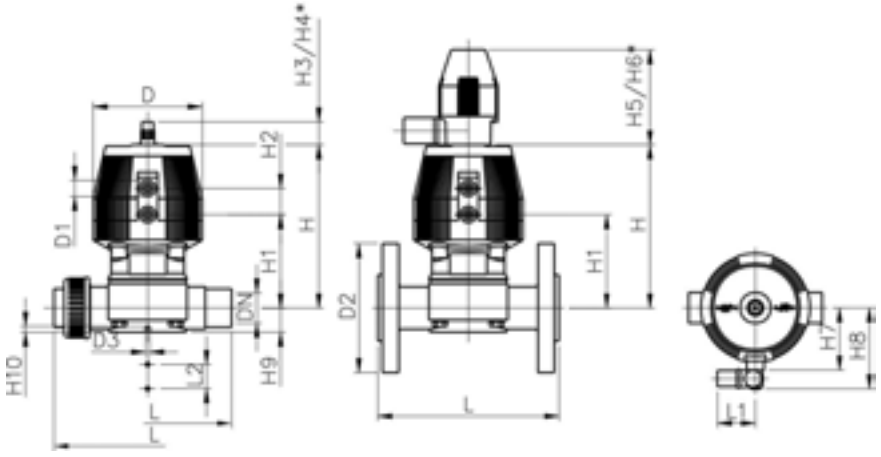
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 001** | **199 027 031** | 0.810 |
| ¾ | 20 | 10 | 120 | **199 027 002** | **199 027 032** | 0.891 |
| 1 | 25 | 10 | 238 | **199 027 003** | **199 027 033** | 1.632 |
| 1 ¼ | 32 | 10 | 341 | **199 027 004** | **199 027 034** | 2.766 |
| 1 ½ | 40 | 10 | 460 | **199 027 005** | **199 027 035** | 4.456 |
| 2 | 50 | 10 | 685 | **199 027 006** | **199 027 036** | 5.031 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 1 ¼ | 150 | ⅛ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 1 ½ | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 2 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 86 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 100 | 21 | 12 |
| 1 ¼ | 117 | 26 | 15 |
| 1 ½ | 133 | 33 | 15 |
| 2 | 133 | 39 | 15 |



# PVC-U

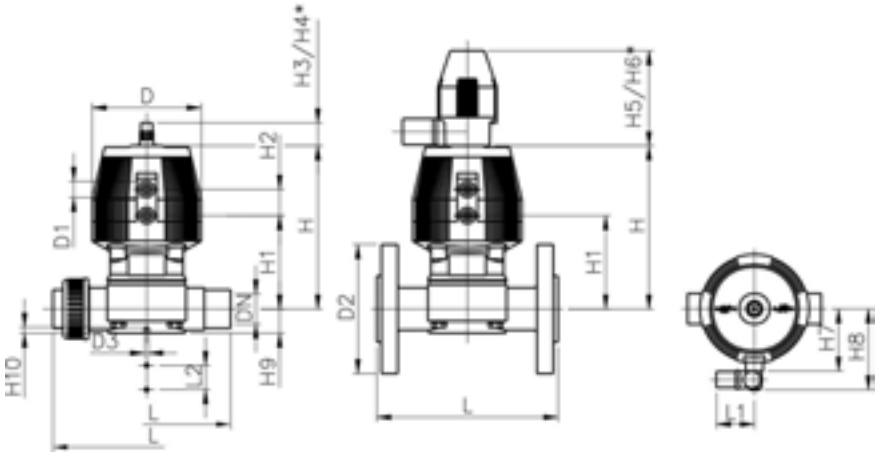
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## With solvent cement sockets BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 061** | **199 027 091** | 0.810 |
| ¾ | 20 | 10 | 120 | **199 027 062** | **199 027 092** | 0.891 |
| 1 | 25 | 10 | 238 | **199 027 063** | **199 027 093** | 1.632 |
| 1 ¼ | 32 | 10 | 341 | **199 027 064** | **199 027 094** | 2.766 |
| 1 ½ | 40 | 10 | 460 | **199 027 065** | **199 027 095** | 4.456 |
| 2 | 50 | 10 | 685 | **199 027 066** | **199 027 096** | 5.031 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 96 | ⅛ | 6 | 128 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| ¾ | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 120 | ⅛ | 6 | 166 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 1 ¼ | 150 | ¼ | 8 | 192 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 1 ½ | 180 | ¼ | 8 | 222 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 2 | 180 | ¼ | 8 | 266 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 86 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 100 | 21 | 12 |
| 1 ¼ | 117 | 26 | 15 |
| 1 ½ | 133 | 33 | 15 |
| 2 | 133 | 39 | 15 |



# PVC-U

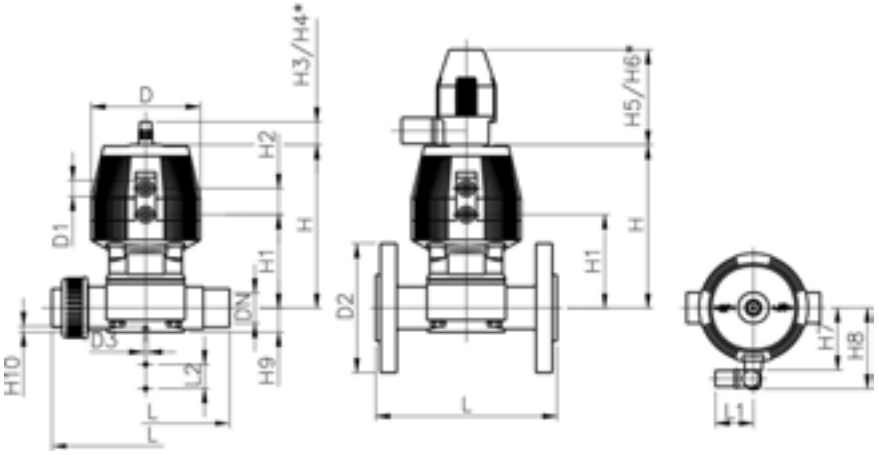
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 001** | **199 025 031** | 1.200 |
| 25 | 20 | 10 | 120 | **199 025 002** | **199 025 032** | 0.891 |
| 32 | 25 | 10 | 238 | **199 025 003** | **199 025 033** | 2.200 |
| 40 | 32 | 10 | 341 | **199 025 004** | **199 025 034** | 2.766 |
| 50 | 40 | 10 | 460 | **199 025 005** | **199 025 035** | 4.456 |
| 63 | 50 | 10 | 685 | **199 025 006** | **199 025 036** | 6.100 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ⅛ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PVC-U

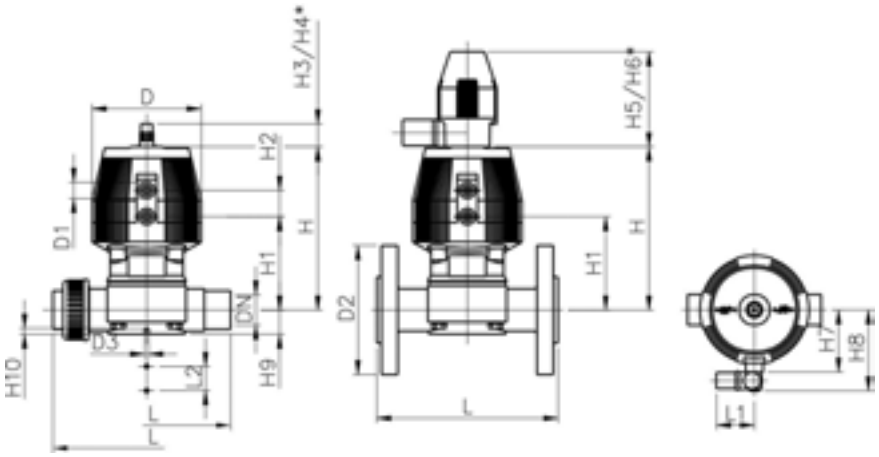
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## Unions with solvent cement sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 061** | **199 025 091** | 0.800 |
| 25 | 20 | 10 | 120 | **199 025 062** | **199 025 092** | 1.000 |
| 32 | 25 | 10 | 238 | **199 025 063** | **199 025 093** | 1.700 |
| 40 | 32 | 10 | 341 | **199 025 064** | **199 025 094** | 3.100 |
| 50 | 40 | 10 | 460 | **199 025 065** | **199 025 095** | 4.700 |
| 63 | 50 | 10 | 685 | **199 025 066** | **199 025 096** | 5.800 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 128 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 166 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 192 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 222 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 266 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## With fixed flanges PVC-U metric

**Model:**

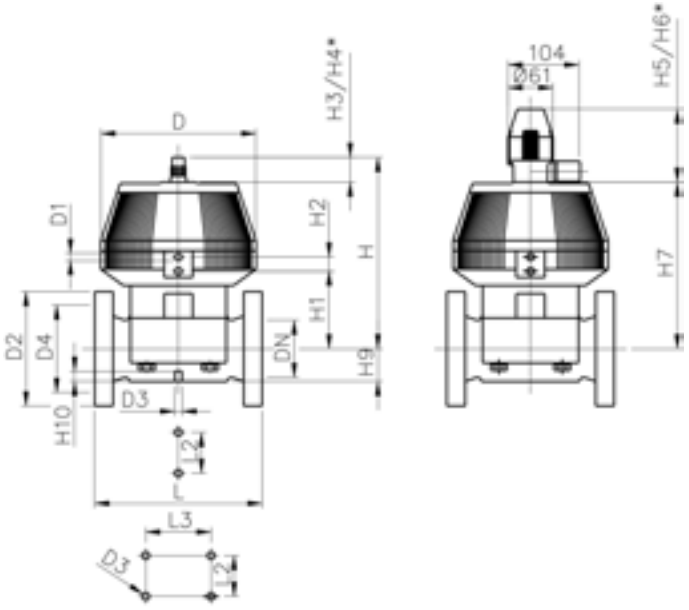
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PVC-U metric
** with fixed flanges PVC-U metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 127** | **199 025 157** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 128** | **199 025 158** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 129** | **199 025 159** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 130** | **-** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 025 FC (Fail safe to close)
## With backing flanges PVC-U metric

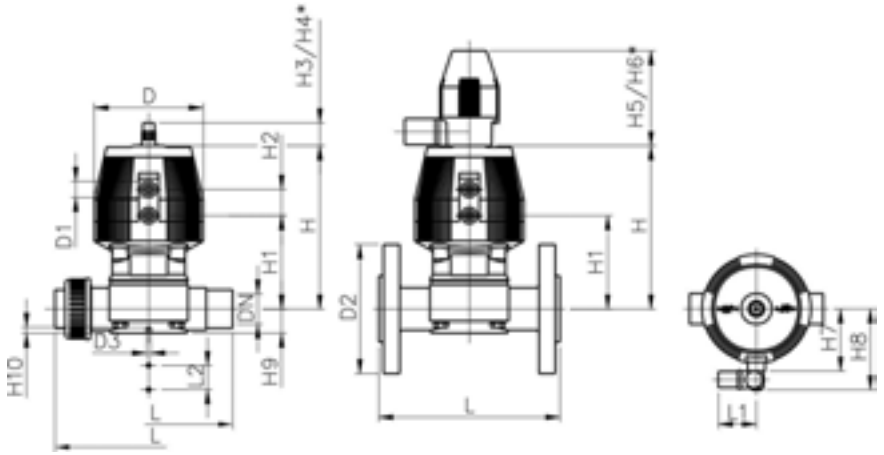
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 121** | **199 025 151** | 0.810 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 122** | **199 025 152** | 0.891 |
| 32 | 25 | 1 | 10 | 238 | **199 025 123** | **199 025 153** | 1.632 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 124** | **199 025 154** | 2.766 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 125** | **199 025 155** | 4.456 |
| 63 | 50 | 2 | 10 | 685 | **199 025 126** | **199 025 156** | 5.031 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 95 | 6 | 130 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 120 | ⅛ | 115 | 6 | 160 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 |
| 40 | 150 | ¼ | 140 | 8 | 180 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 |
| 50 | 180 | ¼ | 150 | 8 | 200 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 |
| 63 | 180 | ¼ | 165 | 8 | 230 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 56 | 86 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 68 | 100 | 21 | 12 | 12 |
| 40 | 85 | 117 | 26 | 15 | 14 |
| 50 | 101 | 133 | 33 | 15 | 18 |
| 63 | 101 | 133 | 39 | 15 | 22 |



# PVC-U

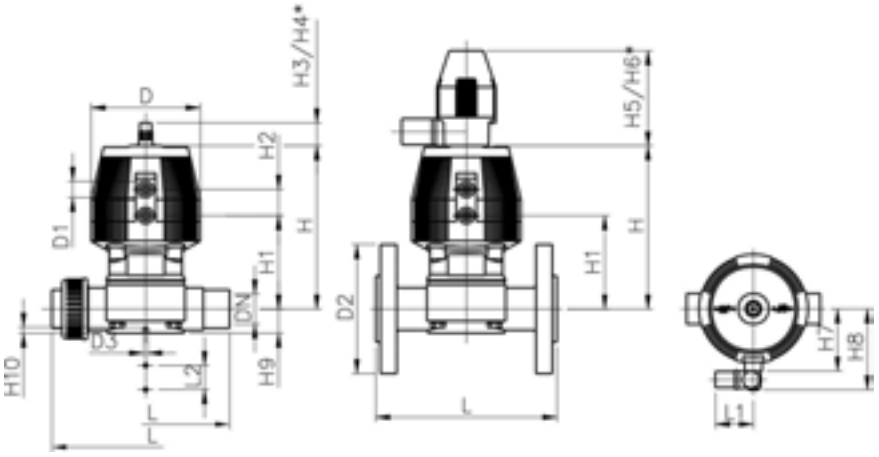
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 011** | **199 027 041** | 0.597 |
| ¾ | 20 | 10 | 120 | **199 027 012** | **199 027 042** | 0.689 |
| 1 | 25 | 10 | 238 | **199 027 013** | **199 027 043** | 1.262 |
| 1 ¼ | 32 | 10 | 341 | **199 027 014** | **199 027 044** | 1.965 |
| 1 ½ | 40 | 10 | 460 | **199 027 015** | **199 027 045** | 3.105 |
| 2 | 50 | 10 | 685 | **199 027 016** | **199 027 046** | 3.800 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

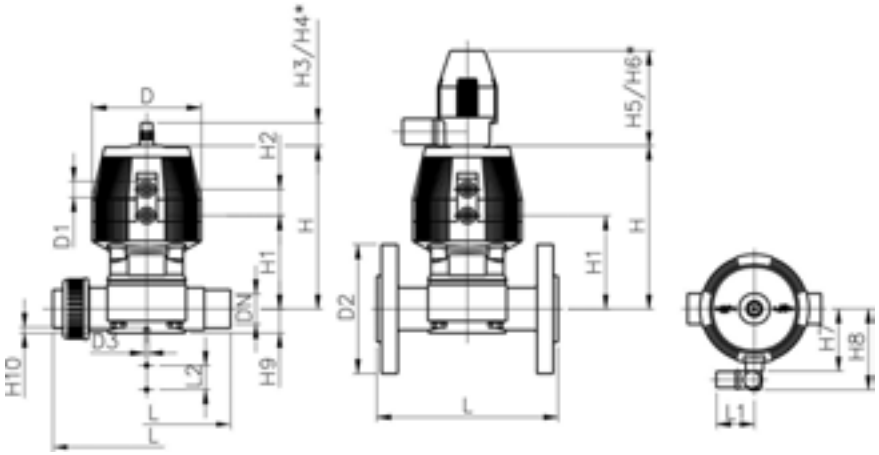
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## With solvent cement sockets BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 071** | **199 027 101** | 0.597 |
| ¾ | 20 | 10 | 120 | **199 027 072** | **199 027 102** | 0.689 |
| 1 | 25 | 10 | 238 | **199 027 073** | **199 027 103** | 1.262 |
| 1 ¼ | 32 | 10 | 341 | **199 027 074** | **199 027 104** | 1.965 |
| 1 ½ | 40 | 10 | 460 | **199 027 075** | **199 027 105** | 3.105 |
| 2 | 50 | 10 | 685 | **199 027 076** | **199 027 106** | 3.800 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

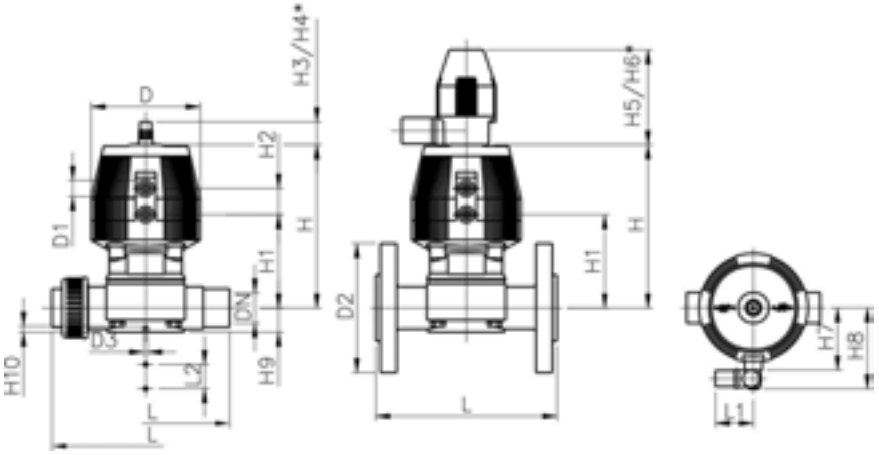
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 011** | **199 025 041** | 0.600 |
| 25 | 20 | 10 | 120 | **199 025 012** | **199 025 042** | 0.800 |
| 32 | 25 | 10 | 238 | **199 025 013** | **199 025 043** | 1.400 |
| 40 | 32 | 10 | 341 | **199 025 014** | **199 025 044** | 2.900 |
| 50 | 40 | 10 | 460 | **199 025 015** | **199 025 045** | 4.500 |
| 63 | 50 | 10 | 685 | **199 025 016** | **199 025 046** | 5.000 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-U

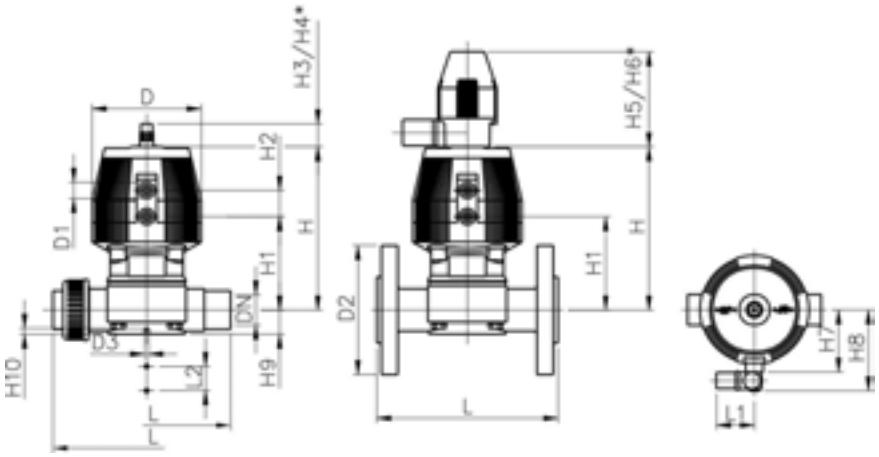
## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## Unions with solvent cement sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 071** | **199 025 101** | 0.464 |
| 25 | 20 | 10 | 120 | **199 025 072** | **199 025 102** | 0.790 |
| 32 | 25 | 10 | 238 | **199 025 073** | **199 025 103** | 1.180 |
| 40 | 32 | 10 | 341 | **199 025 074** | **199 025 104** | 1.450 |
| 50 | 40 | 10 | 460 | **199 025 075** | **199 025 105** | 2.190 |
| 63 | 50 | 10 | 685 | **199 025 076** | **199 025 106** | 3.040 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## With fixed flanges PVC-U metric

**Model:**

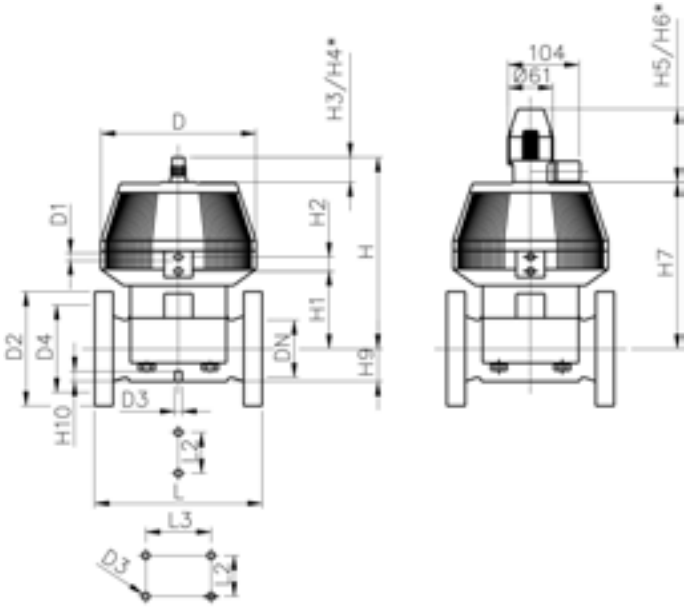
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PVC-U metric
** with fixed flanges PVC-U metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 137** | **199 025 167** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 138** | **199 025 168** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 139** | **199 025 169** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 140** | **199 025 170** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 025 FO (Fail safe to open)
## With backing flanges PVC-U metric

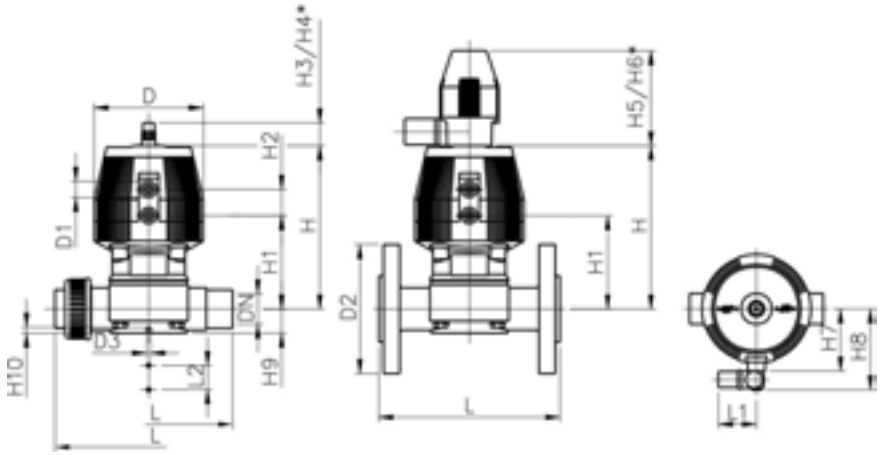
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 131** | **199 025 161** | 0.597 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 132** | **199 025 162** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 133** | **199 025 163** | 1.262 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 134** | **199 025 164** | 1.750 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 135** | **199 025 165** | 2.210 |
| 63 | 50 | 2 | 10 | 685 | **199 025 136** | **199 025 166** | 3.760 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



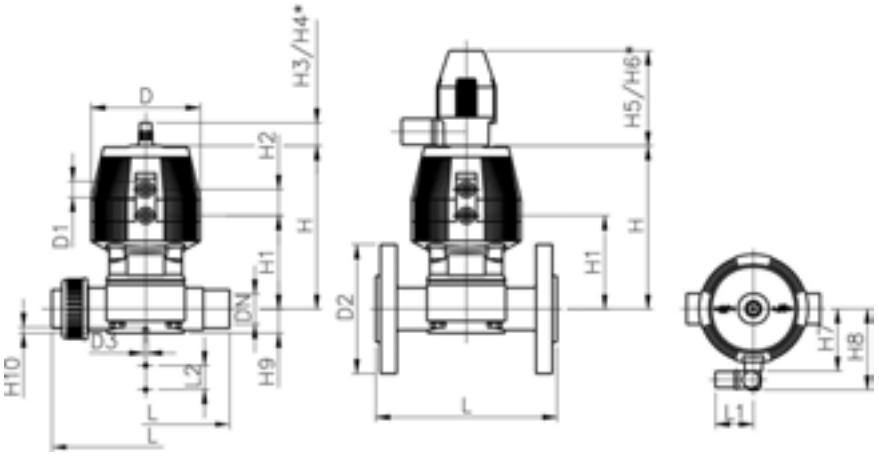
## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 021** | **199 027 051** | 0.567 |
| ¾ | 20 | 10 | 120 | **199 027 022** | **199 027 052** | 0.649 |
| 1 | 25 | 10 | 238 | **199 027 023** | **199 027 053** | 1.202 |
| 1 ¼ | 32 | 10 | 341 | **199 027 024** | **199 027 054** | 1.865 |
| 1 ½ | 40 | 10 | 460 | **199 027 025** | **199 027 055** | 2.935 |
| 2 | 50 | 10 | 685 | **199 027 026** | **199 027 056** | 3.510 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

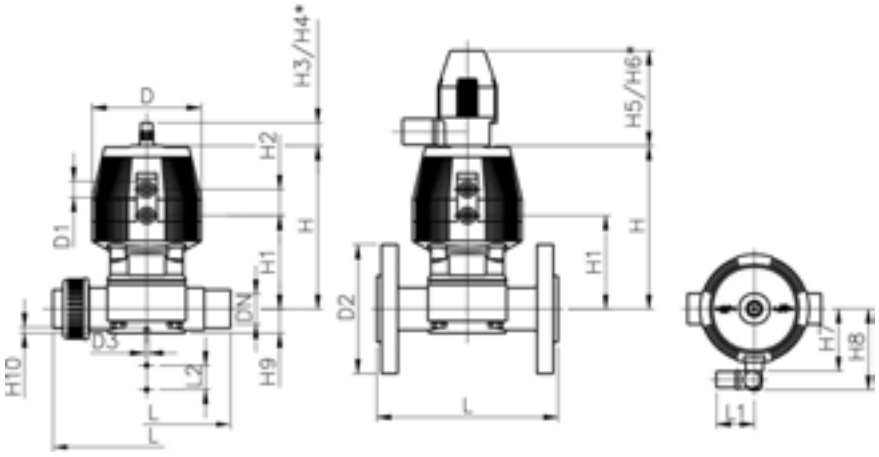
## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## With solvent cement sockets BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 081** | **199 027 111** | 0.480 |
| ¾ | 20 | 10 | 120 | **199 027 082** | **199 027 112** | 0.649 |
| 1 | 25 | 10 | 238 | **199 027 083** | **199 027 113** | 1.202 |
| 1 ¼ | 32 | 10 | 341 | **199 027 084** | **199 027 114** | 1.865 |
| 1 ½ | 40 | 10 | 460 | **199 027 085** | **199 027 115** | 2.935 |
| 2 | 50 | 10 | 685 | **199 027 086** | **199 027 116** | 3.510 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

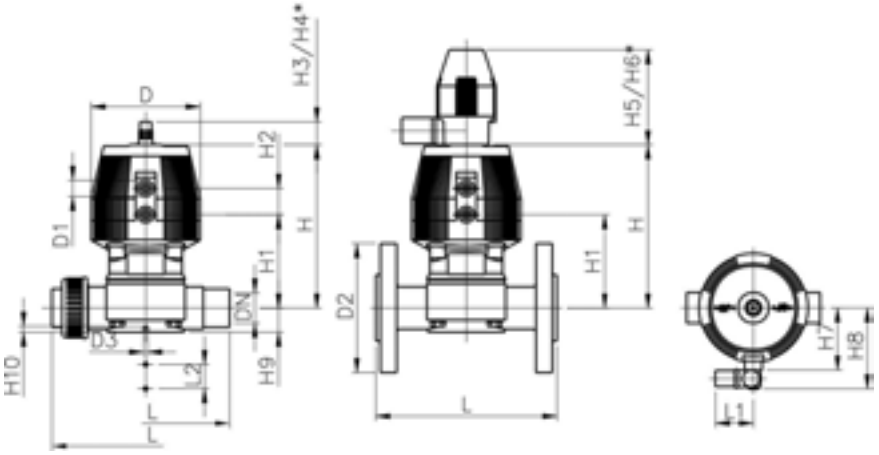
## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 021** | **199 025 051** | 0.404 |
| 25 | 20 | 10 | 120 | **199 025 022** | **199 025 052** | 0.690 |
| 32 | 25 | 10 | 238 | **199 025 023** | **199 025 053** | 0.980 |
| 40 | 32 | 10 | 341 | **199 025 024** | **199 025 054** | 1.230 |
| 50 | 40 | 10 | 460 | **199 025 025** | **199 025 055** | 2.210 |
| 63 | 50 | 10 | 685 | **199 025 026** | **199 025 056** | 4.360 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-U

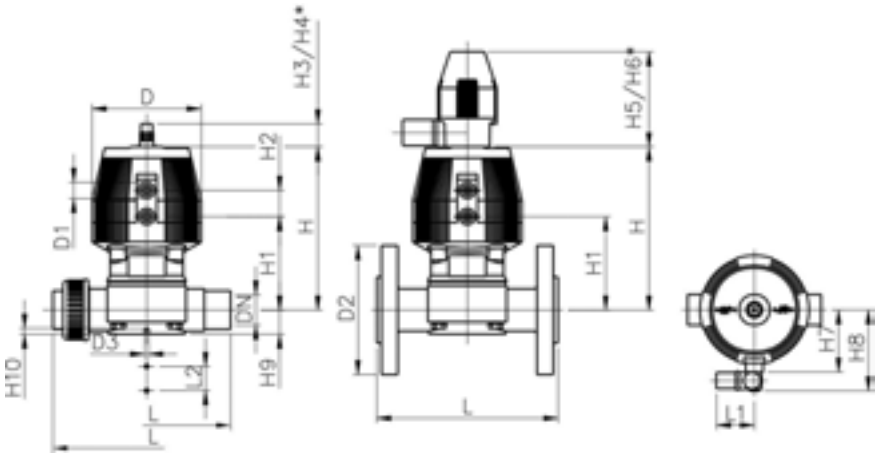
## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## Unions with solvent cement sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 081** | **199 025 111** | 0.464 |
| 25 | 20 | 10 | 120 | **199 025 082** | **199 025 112** | 0.790 |
| 32 | 25 | 10 | 238 | **199 025 083** | **199 025 113** | 1.180 |
| 40 | 32 | 10 | 341 | **199 025 084** | **199 025 114** | 1.450 |
| 50 | 40 | 10 | 460 | **199 025 085** | **199 025 115** | 2.190 |
| 63 | 50 | 10 | 685 | **199 025 086** | **199 025 116** | 3.040 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## With fixed flanges PVC-U metric

**Model:**

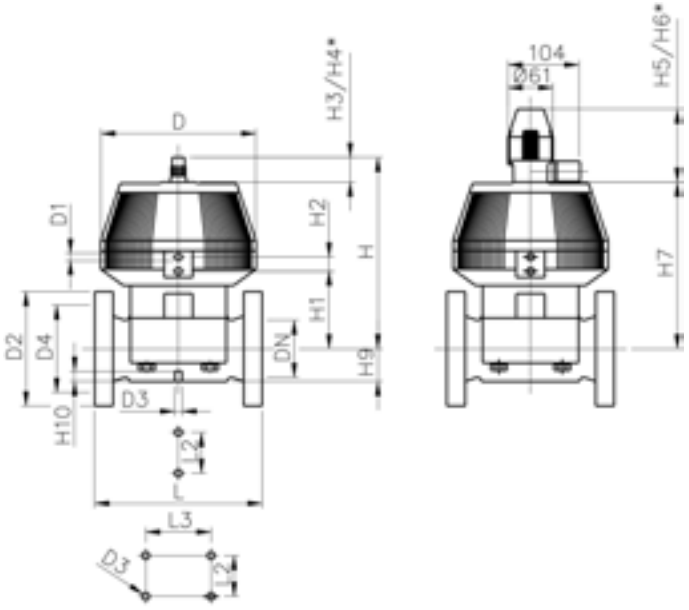
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PVC-U metric
** with fixed flanges PVC-U metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 147** | **199 025 177** | 12.000 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 148** | **199 025 178** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 149** | **199 025 179** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 150** | **199 025 180** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 025 DA (Double acting)
## With backing flanges PVC-U metric

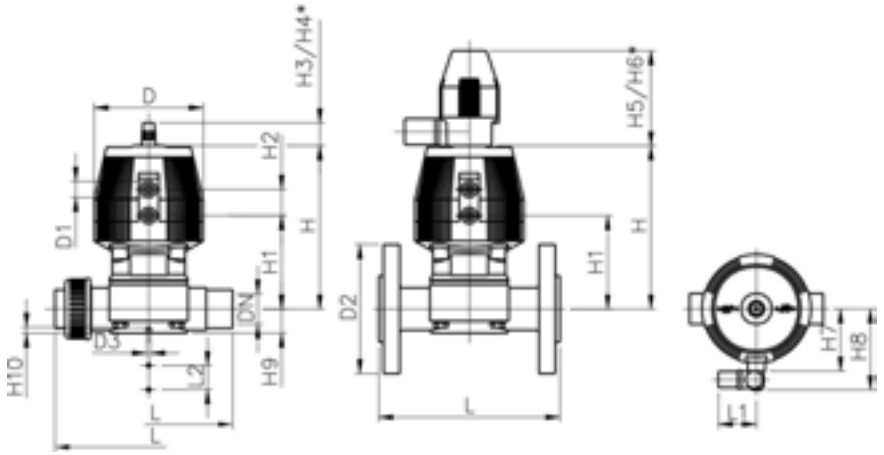
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 141** | **199 025 171** | 0.624 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 142** | **199 025 172** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 143** | **199 025 173** | 1.260 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 144** | **199 025 174** | 1.750 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 145** | **199 025 175** | 2.210 |
| 63 | 50 | 2 | 10 | 685 | **199 025 146** | **199 025 176** | 3.760 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 028 FC (Fail safe to close)
## With solvent cement spigots BS

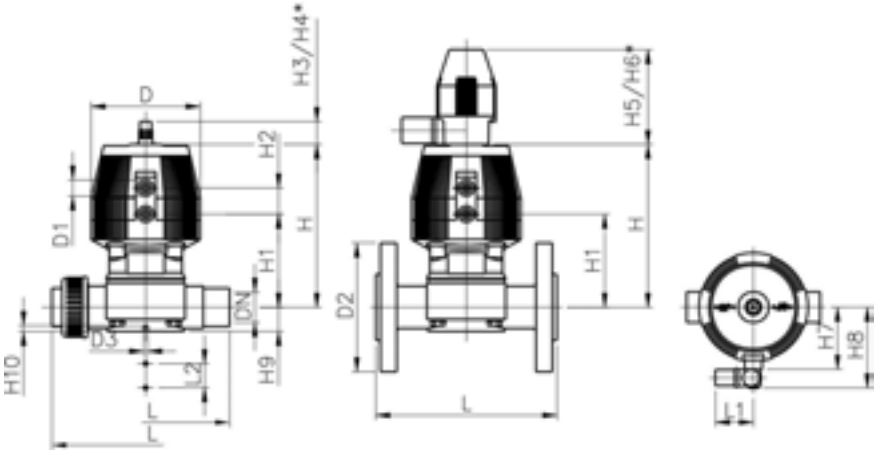
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| Inch | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| ½ | 15 | 10 / 5 | * | 72 | **199 028 011** | **199 028 041** | |
| ¾ | 20 | 10 / 7 | * | 120 | **199 028 012** | **199 028 042** | 0.900 |
| 1 | 25 | 10 / 7 | * | 238 | **199 028 013** | **199 028 043** | |
| 1 ¼ | 32 | 10 / 7 | * | 341 | **199 028 014** | **199 028 044** | |
| 1 ½ | 40 | 10 / 7 | * | 460 | **199 028 015** | **199 028 045** | |
| 2 | 50 | 10 / 7 | * | 685 | **199 028 016** | **199 028 046** | |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 028 FC (Fail safe to close)
## With solvent cement sockets BS

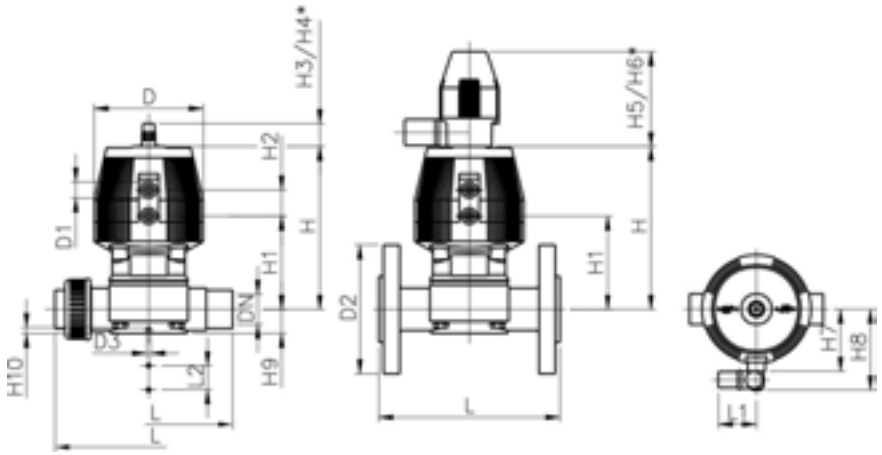
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| Inch | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| ½ | 15 | 10 / 5 | * | 72 | **199 028 071** | **199 028 101** | 0.800 |
| ¾ | 20 | 10 / 7 | * | 120 | **199 028 072** | **199 028 102** | 1.000 |
| 1 | 25 | 10 / 7 | * | 238 | **199 028 073** | **199 028 103** | 1.390 |
| 1 ¼ | 32 | 10 / 7 | * | 341 | **199 028 074** | **199 028 104** | 1.870 |
| 1 ½ | 40 | 10 / 7 | * | 460 | **199 028 075** | **199 028 105** | 4.100 |
| 2 | 50 | 10 / 7 | * | 685 | **199 028 076** | **199 028 106** | 3.880 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 028 FC (Fail safe to close)
## With solvent cement spigots metric

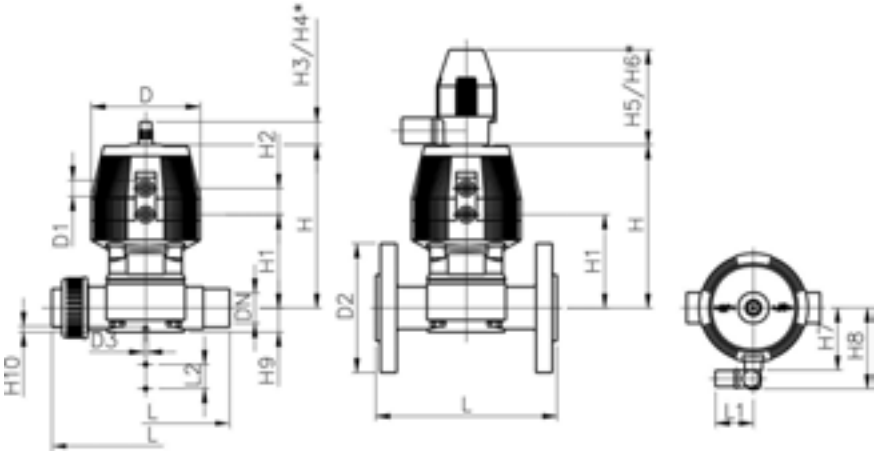
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 001** | **199 028 031** | 0.470 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 002** | **199 028 032** | 0.900 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 003** | **199 028 033** | 1.190 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 004** | **199 028 034** | 1.650 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 005** | **199 028 035** | 3.050 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 006** | **199 028 036** | 5.200 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 028 FC (Fail safe to close)
## Unions with solvent cement sockets metric

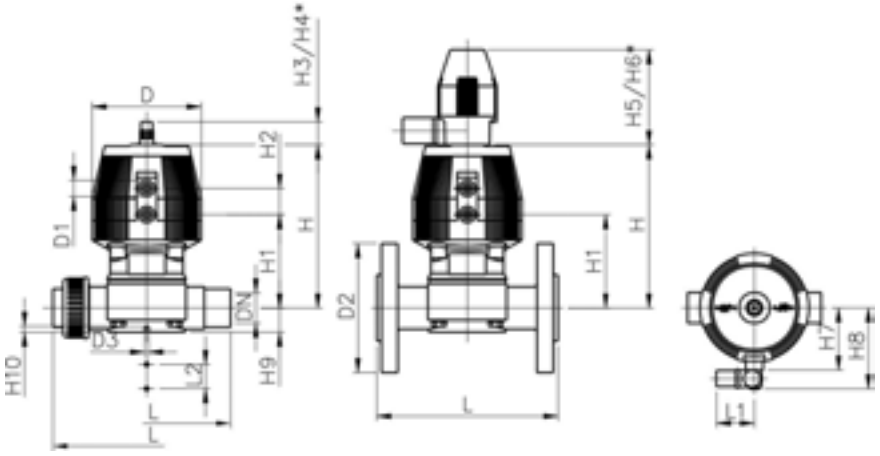
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 061** | **199 028 091** | 0.530 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 062** | **199 028 092** | 1.000 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 063** | **199 028 093** | 1.390 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 064** | **199 028 094** | 1.870 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 065** | **199 028 095** | 4.100 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 066** | **199 028 096** | 3.880 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 152 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 166 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 192 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 222 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 266 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-U

## Diaphragm valve type DIASTAR PVC-U
## Series 028 FC (Fail safe to close)
## With backing flanges PVC-U metric

**Model:**

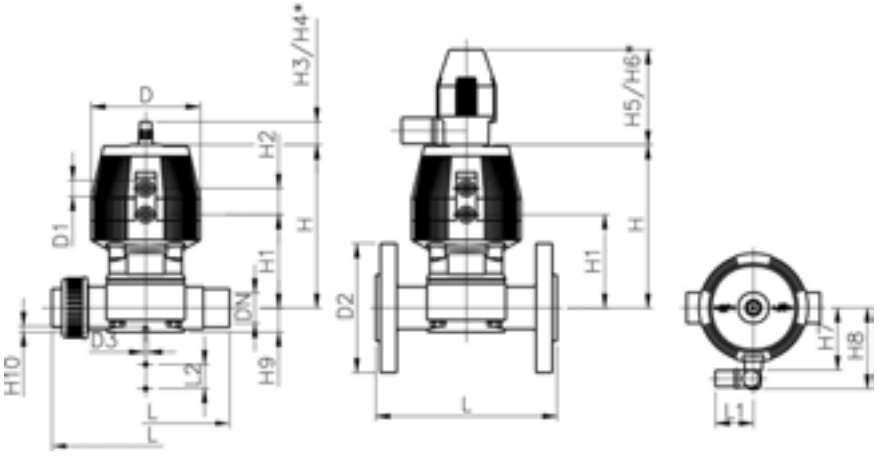
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

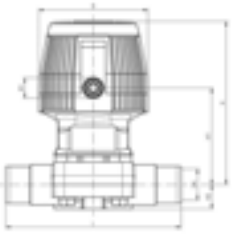
| d [mm] | DN [mm] | Inch | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 / 5 | * | 72 | **199 028 121** | **199 028 151** | 0.690 |
| 25 | 20 | ¾ | 10 / 7 | * | 120 | **199 028 122** | **199 028 152** | 1.100 |
| 32 | 25 | 1 | 10 / 7 | * | 238 | **199 028 123** | **199 028 153** | 1.470 |
| 40 | 32 | 1 ¼ | 10 / 7 | * | 341 | **199 028 124** | **199 028 154** | 2.170 |
| 50 | 40 | 1 ½ | 10 / 7 | * | 460 | **199 028 125** | **199 028 155** | 3.050 |
| 63 | 50 | 2 | 10 / 7 | * | 685 | **199 028 126** | **199 028 156** | 4.600 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PVC-U



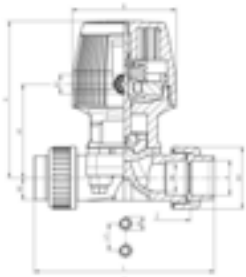
## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) With solvent cement spigots BS

**Model:**

- Working pressure 6 bar one side

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 6 | 72 | **199 024 901** | 0.514 |
| ¾ | 20 | 6 | 120 | **199 024 902** | 1.033 |
| 1 | 25 | 6 | 238 | **199 024 903** | 1.272 |
| 1 ¼ | 32 | 6 | 341 | **199 024 904** | 1.904 |
| 1 ½ | 40 | 6 | 460 | **199 024 905** | 2.443 |
| 2 | 50 | 6 | 685 | **199 024 906** | 3.048 |

| Inch | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| ¾ | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 1 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 1 ¼ | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 1 ½ | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 2 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |



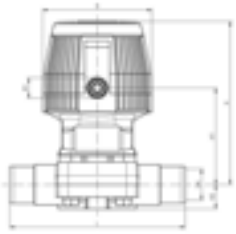
## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) Unions with solvent cement socket BS

**Model:**

- Working pressure 6 bar one side

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 6 | 72 | **199 024 931** | 0.578 |
| ¾ | 20 | 6 | 120 | **199 024 932** | 1.125 |
| 1 | 25 | 6 | 238 | **199 024 933** | 1.379 |
| 1 ¼ | 32 | 6 | 341 | **199 024 934** | 1.863 |
| 1 ½ | 40 | 6 | 460 | **199 024 935** | 2.695 |
| 2 | 50 | 6 | 685 | **199 024 936** | 3.485 |

| Inch | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | M6 | 43 | 128 | 25 | 99 | 59 | 14 | 44 | 8 | 96 |
| ¾ | 96 | ⅛ | M6 | 51 | 152 | 25 | 130 | 71 | 18 | 56 | 10 | 114 |
| 1 | 96 | ⅛ | M6 | 58 | 166 | 25 | 143 | 85 | 21 | 56 | 12 | 122 |
| 1 ¼ | 120 | ⅛ | M8 | 72 | 192 | 45 | 170 | 97 | 26 | 68 | 14 | 140 |
| 1 ½ | 120 | ⅛ | M8 | 83 | 222 | 45 | 182 | 109 | 33 | 68 | 16 | 160 |
| 2 | 120 | ⅛ | M8 | 100 | 266 | 45 | 199 | 126 | 39 | 68 | 16 | 190 |



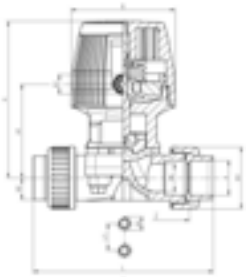
## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) With solvent cement spigots metric

**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 001** | 0.513 |
| 25 | 20 | 6 | 120 | **199 024 002** | 1.035 |
| 32 | 25 | 6 | 238 | **199 024 003** | 1.271 |
| 40 | 32 | 6 | 341 | **199 024 004** | 1.900 |
| 50 | 40 | 6 | 460 | **199 024 005** | 2.469 |
| 63 | 50 | 6 | 685 | **199 024 006** | 3.102 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |



## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) Unions with solvent cement socket metric

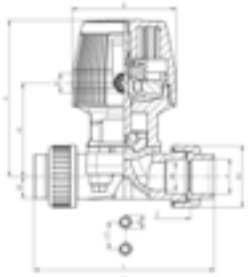
**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 031** | 0.580 |
| 25 | 20 | 6 | 120 | **199 024 032** | 1.127 |
| 32 | 25 | 6 | 238 | **199 024 033** | 1.381 |
| 40 | 32 | 6 | 341 | **199 024 034** | 1.873 |
| 50 | 40 | 6 | 460 | **199 024 035** | 2.687 |
| 63 | 50 | 6 | 685 | **199 024 036** | 3.465 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 43 | 128 | 25 | 99 | 59 | 14 | 44 | 8 | 96 |
| 25 | 96 | ⅛ | M6 | 51 | 152 | 25 | 130 | 71 | 18 | 56 | 10 | 114 |
| 32 | 96 | ⅛ | M6 | 58 | 166 | 25 | 143 | 85 | 21 | 56 | 12 | 122 |
| 40 | 120 | ⅛ | M8 | 72 | 192 | 45 | 170 | 97 | 26 | 68 | 14 | 140 |
| 50 | 120 | ⅛ | M8 | 83 | 222 | 45 | 182 | 109 | 33 | 68 | 16 | 160 |
| 63 | 120 | ⅛ | M8 | 100 | 266 | 45 | 199 | 126 | 39 | 68 | 16 | 190 |

# PVC-U



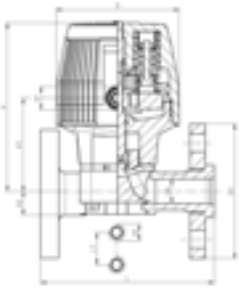
## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) Unions with threaded sockets Rp

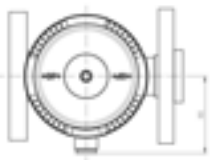
**Model:**

- Working pressure 6 bar one side

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 6 | 72 | **199 024 061** | 0.582 |
| ¾ | 20 | 6 | 120 | **199 024 062** | 1.123 |
| 1 | 25 | 6 | 238 | **199 024 063** | 1.383 |
| 1 ¼ | 32 | 6 | 341 | **199 024 064** | 1.873 |
| 1 ½ | 40 | 6 | 460 | **199 024 065** | 2.699 |
| 2 | 50 | 6 | 685 | **199 024 066** | 3.541 |

| Rp [inch] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | M6 | 43 | 128 | 25 | 99 | 59 | 14 | 44 | 8 | 102 |
| ¾ | 96 | ⅛ | M6 | 51 | 152 | 25 | 130 | 71 | 18 | 56 | 10 | 122 |
| 1 | 96 | ⅛ | M6 | 58 | 166 | 25 | 143 | 85 | 21 | 56 | 12 | 132 |
| 1 ¼ | 120 | ⅛ | M8 | 72 | 192 | 45 | 170 | 97 | 26 | 68 | 14 | 154 |
| 1 ½ | 120 | ⅛ | M8 | 83 | 222 | 45 | 182 | 109 | 33 | 68 | 16 | 184 |
| 2 | 120 | ⅛ | M8 | 100 | 266 | 45 | 199 | 126 | 39 | 68 | 16 | 220 |





## Diaphragm valve DIASTAR Eco PVC-U FC (Fail safe to close) With backing flanges PVC-U metric

**Model:**

- Working pressure 6 bar one side
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 6 | 72 | **199 024 091** | 0.553 |
| 25 | 20 | ¾ | 6 | 120 | **199 024 092** | 1.130 |
| 32 | 25 | 1 | 6 | 238 | **199 024 093** | 1.414 |
| 40 | 32 | 1 ¼ | 6 | 341 | **199 024 094** | 2.125 |
| 50 | 40 | 1 ½ | 6 | 460 | **199 024 095** | 3.063 |
| 63 | 50 | 2 | 6 | 685 | **199 024 096** | 3.870 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 95 | 130 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 105 | 150 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 115 | 160 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 140 | 180 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 150 | 200 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 165 | 230 | 45 | 199 | 126 | 39 | 68 | 16 |

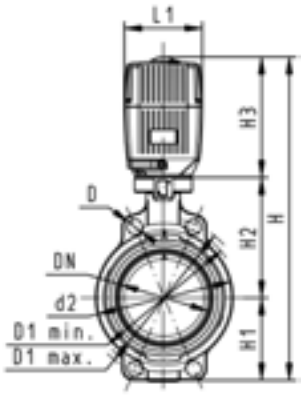
# PVC-U

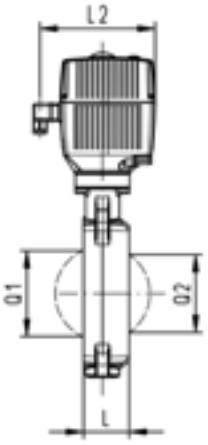
# Butterfly valves electric

## Butterfly valve type 140 PVC-U 100-230V Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 042** | **199 140 062** | 4.182 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 043** | **199 140 063** | 4.286 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 044** | **199 140 064** | 4.453 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 045** | **199 140 065** | 5.073 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 046** | **199 140 066** | 5.644 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 047** | **199 140 067** | 6.654 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 048** | **199 140 068** | 12.634 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PVC-U

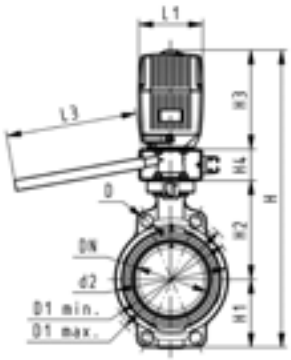
## Butterfly valve type 140 PVC-U 100-230V With manual override

New

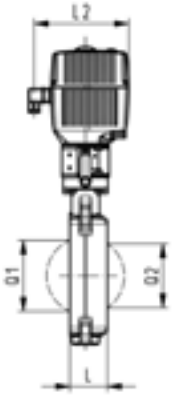
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 002** | **199 140 022** | 5.682 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 003** | **199 140 023** | 5.786 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 004** | **199 140 024** | 5.953 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 005** | **199 140 025** | 6.573 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 006** | **199 140 026** | 7.144 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 007** | **199 140 027** | 8.154 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 008** | **199 140 028** | 14.134 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |



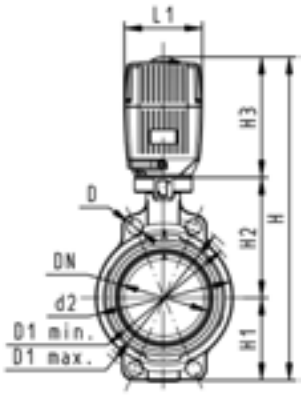

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

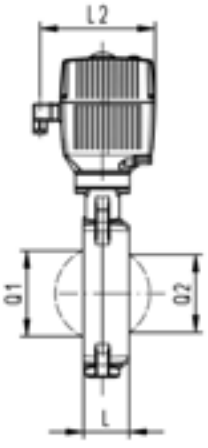
## Butterfly valve type 140 PVC-U 24V Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 122** | **199 140 142** | 4.182 | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 123** | **199 140 143** | 4.286 | |
| 90 | 80 | 3 | 10 | 3000 | **199 140 124** | **199 140 144** | 4.453 | |
| 110 | 100 | 4 | 10 | 6500 | **199 140 125** | **199 140 145** | 5.073 | |
| 140 | 125 | 5 | 10 | 11500 | **199 140 126** | **199 140 146** | 5.644 | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 127** | **199 140 147** | 6.654 | |
| 225 | 200 | 8 | 10 | 39600 | **199 140 128** | **199 140 148** | 12.634 | |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PVC-U

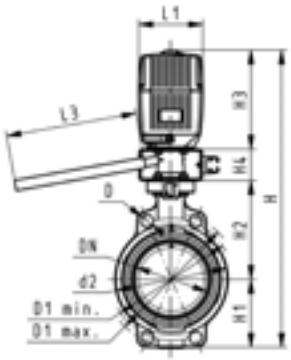
## Butterfly valve type 140 PVC-U 24V
## With manual override

New

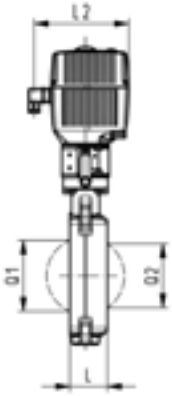
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 082** | **199 140 102** | 5.682 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 083** | **199 140 103** | 5.786 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 084** | **199 140 104** | 5.953 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 085** | **199 140 105** | 6.573 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 086** | **199 140 106** | 7.144 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 087** | **199 140 107** | 8.154 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 088** | **199 140 108** | 14.134 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |




| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

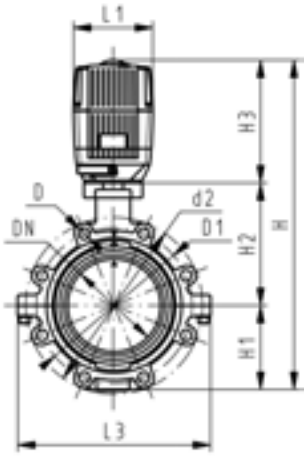
# PVC-U

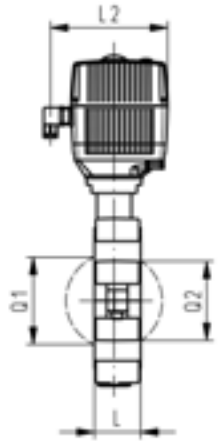
## Butterfly valve type 141 PVC-U 100-230V Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 042** | **199 141 062** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 043** | **199 141 063** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 044** | **199 141 064** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 045** | **199 141 065** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 046** | **199 141 066** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 047** | **199 141 067** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 048** | **199 141 068** |

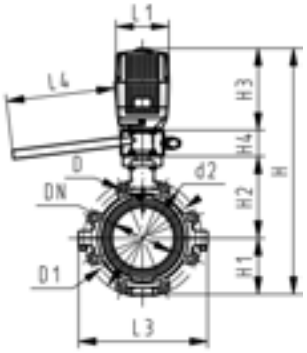
| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

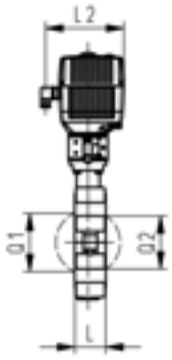
# PVC-U

## Butterfly valve type 141 PVC-U 100-230V With manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 002** | **199 141 022** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 003** | **199 141 023** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 004** | **199 141 024** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 005** | **199 141 025** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 006** | **199 141 026** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 007** | **199 141 027** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 008** | **199 141 028** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

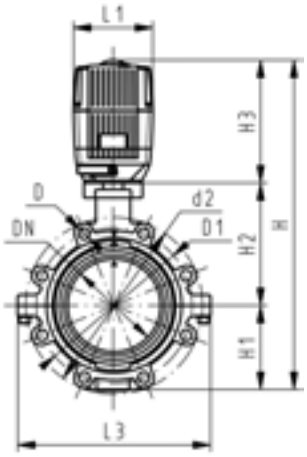
# PVC-U

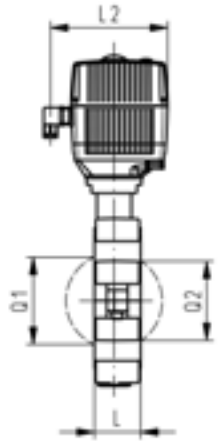
## Butterfly valve type 141 PVC-U 24V Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 122** | **199 141 142** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 123** | **199 141 143** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 124** | **199 141 144** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 125** | **199 141 145** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 126** | **199 141 146** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 127** | **199 141 147** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 128** | **199 141 148** |

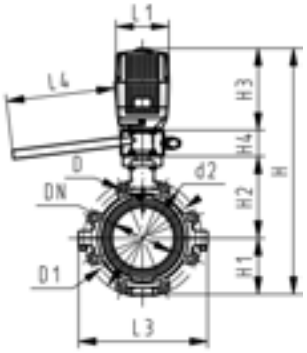
| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

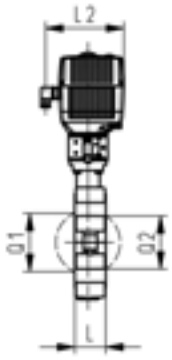
# PVC-U

## Butterfly valve type 141 PVC-U 24V
## With manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 082** | **199 141 102** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 083** | **199 141 103** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 084** | **199 141 104** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 085** | **199 141 105** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 086** | **199 141 106** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 087** | **199 141 107** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 088** | **199 141 108** |

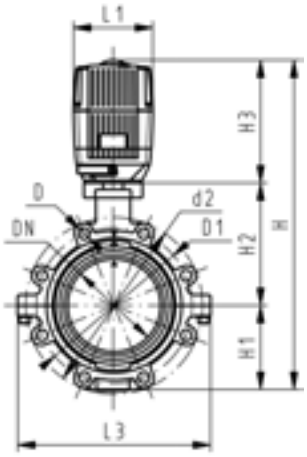
| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

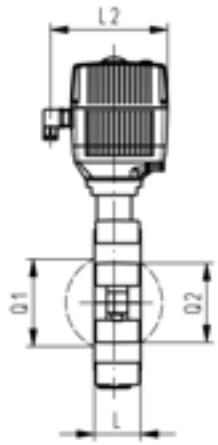
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

## Butterfly valve type 142 PVC-U 100-230V Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 142 042** | **199 142 062** |
| 2 ½ | 65 | 10 | 2200 | **199 142 043** | **199 142 063** |
| 3 | 80 | 10 | 3000 | **199 142 044** | **199 142 064** |
| 4 | 100 | 10 | 6500 | **199 142 045** | **199 142 065** |
| 5 | 125 | 10 | 11500 | **199 142 046** | **199 142 066** |
| 6 | 150 | 10 | 16600 | **199 142 047** | **199 142 067** |
| 8 | 200 | 10 | 39600 | **199 142 048** | **199 142 068** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

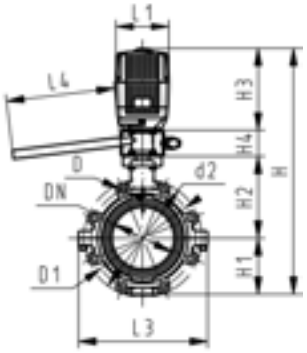
| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

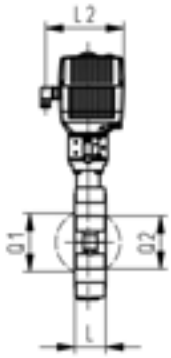
# PVC-U

## Butterfly valve type 142 PVC-U 100-230V With manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 142 002** | **199 142 022** |
| 2 ½ | 65 | 10 | 2200 | **199 142 003** | **199 142 023** |
| 3 | 80 | 10 | 3000 | **199 142 004** | **199 142 024** |
| 4 | 100 | 10 | 6500 | **199 142 005** | **199 142 025** |
| 5 | 125 | 10 | 11500 | **199 142 006** | **199 142 026** |
| 6 | 150 | 10 | 16600 | **199 142 007** | **199 142 027** |
| 8 | 200 | 10 | 39600 | **199 142 008** | **199 142 028** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

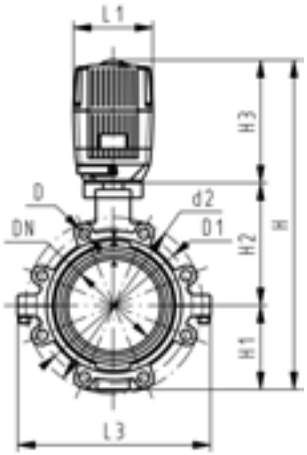
| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

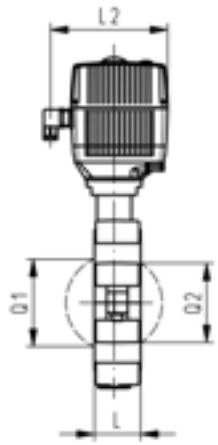
# PVC-U

## Butterfly valve type 142 PVC-U 24V Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 142 122** | **199 142 142** |
| 2 ½ | 65 | 10 | 2200 | **199 142 123** | **199 142 143** |
| 3 | 80 | 10 | 3000 | **199 142 124** | **199 142 144** |
| 4 | 100 | 10 | 6500 | **199 142 125** | **199 142 145** |
| 5 | 125 | 10 | 11500 | **199 142 126** | **199 142 146** |
| 6 | 150 | 10 | 16600 | **199 142 127** | **199 142 147** |
| 8 | 200 | 10 | 39600 | **199 142 128** | **199 142 148** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

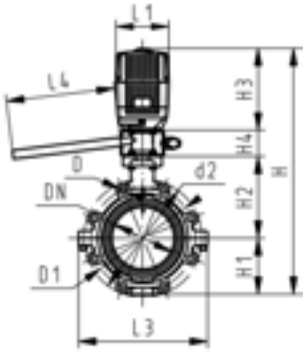
| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

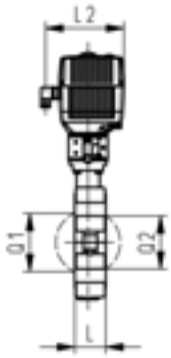
# PVC-U

## Butterfly valve type 142 PVC-U 24V
## With manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 142 082** | **199 142 102** |
| 2 ½ | 65 | 10 | 2200 | **199 142 083** | **199 142 103** |
| 3 | 80 | 10 | 3000 | **199 142 084** | **199 142 104** |
| 4 | 100 | 10 | 6500 | **199 142 085** | **199 142 105** |
| 5 | 125 | 10 | 11500 | **199 142 086** | **199 142 106** |
| 6 | 150 | 10 | 16600 | **199 142 087** | **199 142 107** |
| 8 | 200 | 10 | 39600 | **199 142 088** | **199 142 108** |

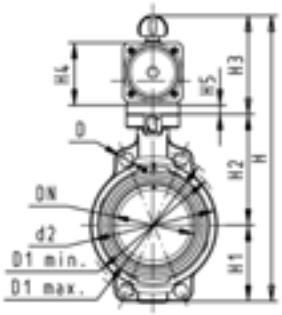
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

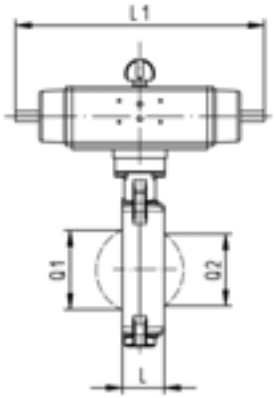
| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

# PVC-U

# Butterfly valves pneumatic

## Butterfly valve type 240 PVC-U
## FC (Fail safe to close)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 002** | **199 240 022** | 3.222 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 003** | **199 240 023** | 3.326 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 004** | **199 240 024** | 3.493 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 005** | **199 240 025** | 5.311 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 006** | **199 240 026** | 6.884 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 007** | **199 240 027** | 10.215 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 008** | **199 240 028** | 14.134 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FC | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FC | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FC | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FC | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FC | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FC | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

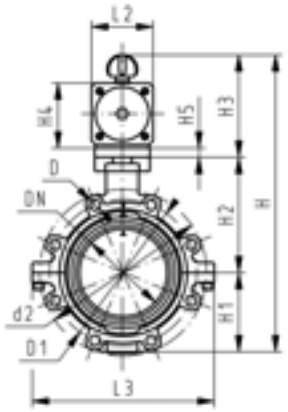
# PVC-U

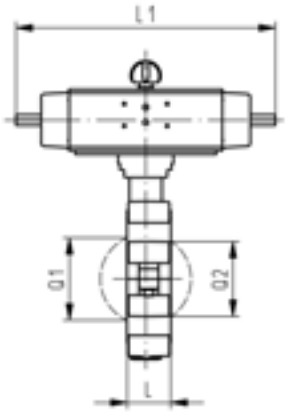
## Butterfly valve type 241 PVC-U
## FC (Fail safe to close)
## Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 002** | **199 241 022** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 003** | **199 241 023** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 004** | **199 241 024** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 005** | **199 241 025** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 006** | **199 241 026** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 007** | **199 241 027** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 008** | **199 241 028** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FC | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FC | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FC | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FC | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FC | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FC | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |

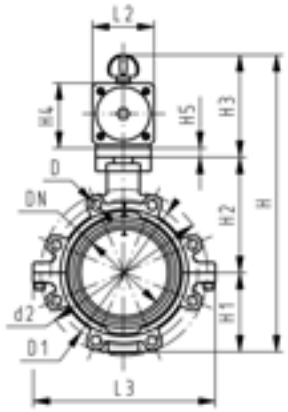
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

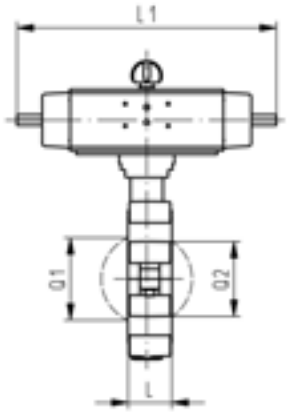
# PVC-U

## Butterfly valve type 242 PVC-U
## FC (Fail safe to close)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)



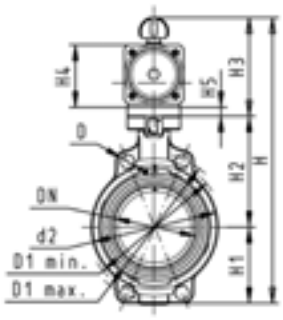

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 242 002** | **199 242 022** |
| 2 ½ | 65 | 10 | 2200 | **199 242 003** | **199 242 023** |
| 3 | 80 | 10 | 3000 | **199 242 004** | **199 242 024** |
| 4 | 100 | 10 | 6500 | **199 242 005** | **199 242 025** |
| 5 | 125 | 10 | 11500 | **199 242 006** | **199 242 026** |
| 6 | 150 | 10 | 16600 | **199 242 007** | **199 242 027** |
| 8 | 200 | 10 | 39600 | **199 242 008** | **199 242 028** |

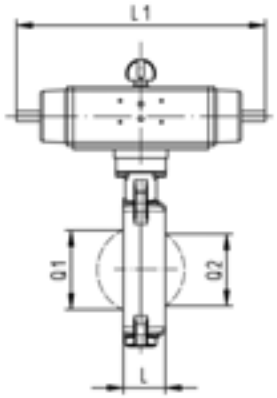
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FC | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FC | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FC | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FC | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FC | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FC | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FC | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PVC-U

## Butterfly valve type 240 PVC-U
## FO (Fail safe to open)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

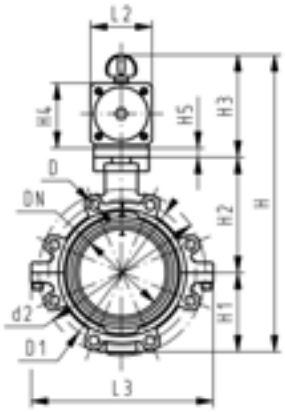
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 042** | **199 240 062** | 3.222 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 043** | **199 240 063** | 3.326 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 044** | **199 240 064** | 3.493 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 045** | **199 240 065** | 5.311 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 046** | **199 240 066** | 6.884 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 047** | **199 240 067** | 10.215 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 048** | **199 240 068** | 14.134 |

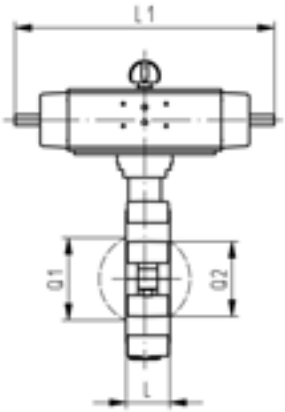
| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FO | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FO | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FO | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FO | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FO | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FO | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

# PVC-U

## Butterfly valve type 241 PVC-U
## FO (Fail safe to open)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 042** | **199 241 062** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 043** | **199 241 063** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 044** | **199 241 064** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 045** | **199 241 065** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 046** | **199 241 066** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 047** | **199 241 067** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 048** | **199 241 068** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FO | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FO | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FO | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FO | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FO | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FO | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

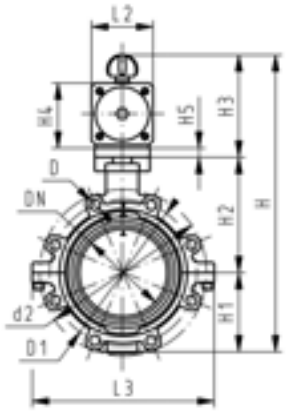
# PVC-U

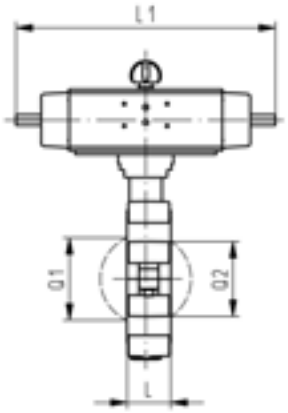
## Butterfly valve type 242 PVC-U
## FO (Fail safe to open)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 242 042** | **199 242 062** |
| 2 ½ | 65 | 10 | 2200 | **199 242 043** | **199 242 063** |
| 3 | 80 | 10 | 3000 | **199 242 044** | **199 242 064** |
| 4 | 100 | 10 | 6500 | **199 242 045** | **199 242 065** |
| 5 | 125 | 10 | 11500 | **199 242 046** | **199 242 066** |
| 6 | 150 | 10 | 16600 | **199 242 047** | **199 242 067** |
| 8 | 200 | 10 | 39600 | **199 242 048** | **199 242 068** |



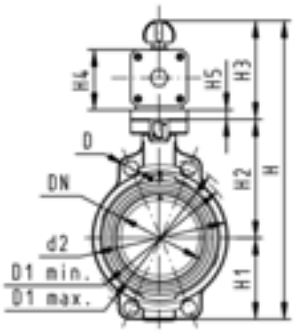



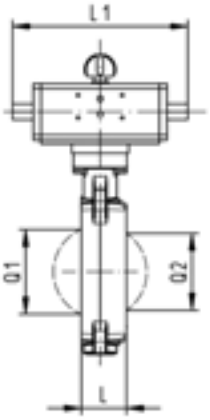

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FO | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FO | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FO | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FO | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FO | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FO | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FO | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PVC-U

## Butterfly valve type 240 PVC-U
## DA (Double acting)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 082** | **199 240 102** | 2.072 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 083** | **199 240 103** | 2.176 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 084** | **199 240 104** | 2.824 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 085** | **199 240 105** | 3.563 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 086** | **199 240 106** | 4.134 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 087** | **199 240 107** | 6.694 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 088** | **199 240 108** | 8.134 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | 19 | 120.0 | 125.0 | 104 | 317 | 77 | 134 | 107 | 60 | 15 | 45 | 177 |
| 75 | PA-35 DA | 19 | 139.7 | 145.0 | 115 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 |
| 90 | PA-40 DA | 19 | 150.0 | 160.0 | 131 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 |
| 110 | PA-45 DA | 19 | 175.0 | 190.5 | 161 | 372 | 104 | 167 | 102 | 71 | | 56 | 198 |
| 140 | PA-45 DA | 23 | 210.0 | 215.9 | 187 | 408 | 117 | 181 | 111 | 78 | | 64 | 235 |
| 160 | PA-55 DA | 24 | 241.3 | 241.3 | 215 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 |
| 225 | PA-55 DA | 23 | 290.0 | 295.0 | 267 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 55 | 40 | |
| 75 | 55 | 54 | 35 |
| 90 | 60 | 67 | 50 |
| 110 | 65 | 88 | 74 |
| 140 | 72 | 113 | 97 |
| 160 | 80 | 139 | 123 |
| 225 | 90 | 178 | 169 |

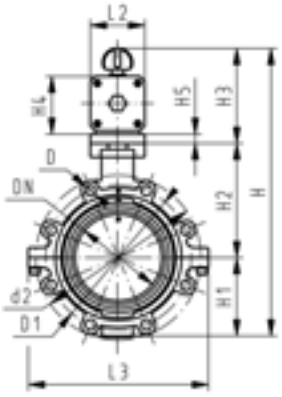
# PVC-U

## Butterfly valve type 241 PVC-U
## DA (Double acting)
## Without manual override

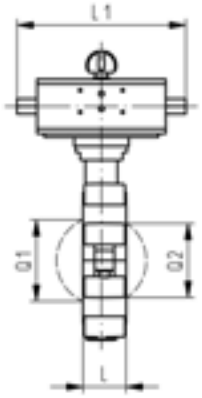
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 082** | **199 241 102** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 083** | **199 241 103** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 084** | **199 241 104** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 085** | **199 241 105** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 086** | **199 241 106** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 087** | **199 241 107** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 088** | **199 241 108** |



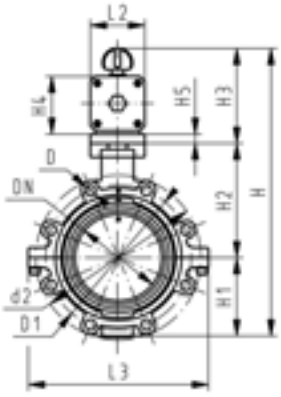

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | M16 | 125 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 | 150 |
| 75 | PA-35 DA | M16 | 145 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 | 160 |
| 90 | PA-40 DA | M16 | 160 | 184 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 | 205 |
| 110 | PA-45 DA | M16 | 180 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 | 244 |
| 140 | PA-45 DA | M16 | 210 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 | 272 |
| 160 | PA-55 DA | M20 | 240 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 | 297 |
| 225 | PA-55 DA | M20 | 295 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 | 360 |

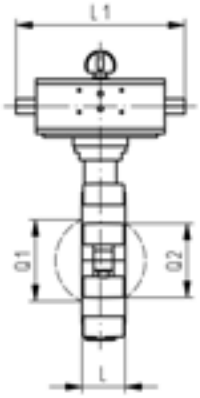



| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

# PVC-U

## Butterfly valve type 242 PVC-U
## DA (Double acting)
## Without manual override




**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 10 | 1470 | **199 242 082** | **199 242 102** |
| 2 ½ | 65 | 10 | 2200 | **199 242 083** | **199 242 103** |
| 3 | 80 | 10 | 3000 | **199 242 084** | **199 242 104** |
| 4 | 100 | 10 | 6500 | **199 242 085** | **199 242 105** |
| 5 | 125 | 10 | 11500 | **199 242 086** | **199 242 106** |
| 6 | 150 | 10 | 16600 | **199 242 087** | **199 242 107** |
| 8 | 200 | 10 | 39600 | **199 242 088** | **199 242 108** |

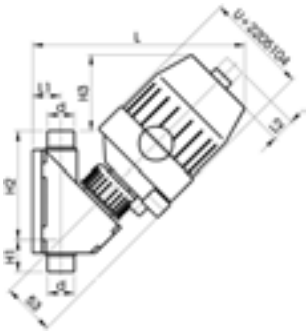
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-35 DA | UNC 5/8 | 121 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 |
| 2 ½ | PA-35 DA | UNC 5/8 | 140 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 |
| 3 | PA-40 DA | UNC 5/8 | 153 | 177 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 |
| 4 | PA-45 DA | UNC 5/8 | 191 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 |
| 5 | PA-45 DA | UNC 3/4 | 216 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 |
| 6 | PA-55 DA | UNC 3/4 | 242 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 |
| 8 | PA-55 DA | UNC 3/4 | 299 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PVC-U

# Angle seat valves pneumatic

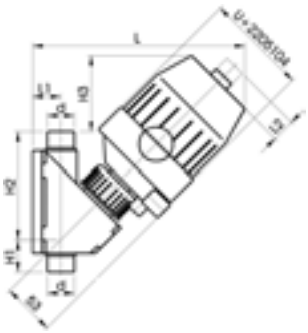
## Angle seat valve type 211 PVC-U FC (Fail safe to close) With solvent cement spigots metric



| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 6 | 41 | **199 211 305** | **199 211 355** | 1.000 |
| 20 | 15 | 6 | 94 | **199 211 306** | **199 211 356** | 1.200 |
| 25 | 20 | 6 | 175 | **199 211 307** | **199 211 357** | 1.400 |
| 32 | 25 | 6 | 296 | **199 211 308** | **199 211 358** | 1.600 |
| 40 | 32 | 6 | 416 | **199 211 309** | **199 211 359** | 2.100 |
| 50 | 40 | 3 | 512 | **199 211 310** | **199 211 360** | 2.900 |
| 63 | 50 | 2 | 620 | **199 211 311** | **199 211 361** | 4.900 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|
| 16 | 198 | 22 | 14 | 24 | 90 | 74 |
| 20 | 207 | 25 | 17 | 28 | 96 | 73 |
| 25 | 221 | 30 | 22 | 37 | 107 | 71 |
| 32 | 240 | 35 | 22 | 37 | 117 | 72 |
| 40 | 270 | 42 | 22 | 44 | 130 | 80 |
| 50 | | | 22 | 48 | 146 | 82 |
| 63 | | | 22 | 60 | 164 | 82 |

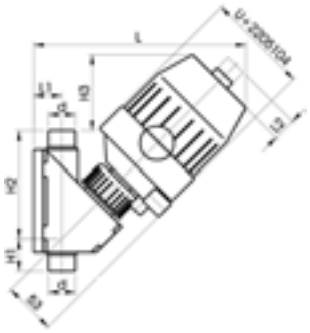
## Angle seat valve type 211 PVC-U FO (Fail safe to open) With solvent cement spigots metric



| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 41 | **199 211 705** | **199 211 755** | 1.000 |
| 20 | 15 | 10 | 94 | **199 211 706** | **199 211 756** | 1.200 |
| 25 | 20 | 10 | 175 | **199 211 707** | **199 211 757** | 1.400 |
| 32 | 25 | 10 | 296 | **199 211 708** | **199 211 758** | 1.600 |
| 40 | 32 | 10 | 416 | **199 211 709** | **199 211 759** | 2.100 |
| 50 | 40 | 6 | 512 | **199 211 710** | **199 211 760** | 2.900 |
| 63 | 50 | 4 | 620 | **199 211 711** | **199 211 761** | 4.900 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|
| 16 | 198 | 22 | 14 | 24 | 90 | 74 |
| 20 | 207 | 25 | 17 | 28 | 96 | 73 |
| 25 | 221 | 30 | 22 | 37 | 107 | 71 |
| 32 | 240 | 35 | 22 | 37 | 117 | 72 |
| 40 | 270 | 42 | 22 | 44 | 130 | 80 |
| 50 | | | 22 | 48 | 146 | 82 |
| 63 | | | 22 | 60 | 164 | 82 |

# PVC-U



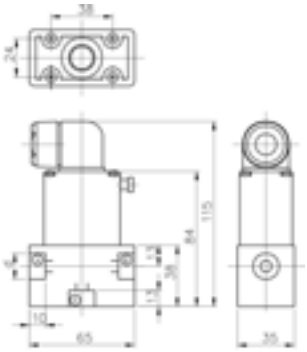
## Angle seat valve type 211 PVC-U DA (Double acting)
## With solvent cement spigots metric

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 41 | **199 211 105** | **199 211 155** | 1.000 |
| 20 | 15 | 10 | 94 | **199 211 106** | **199 211 156** | 1.200 |
| 25 | 20 | 10 | 175 | **199 211 107** | **199 211 157** | 1.400 |
| 32 | 25 | 10 | 296 | **199 211 108** | **199 211 158** | 1.600 |
| 40 | 32 | 10 | 416 | **199 211 109** | **199 211 159** | 2.100 |
| 50 | 40 | 10 | 512 | **199 211 110** | **199 211 160** | 2.900 |
| 63 | 50 | 6 | 620 | **199 211 111** | **199 211 161** | 4.900 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|
| 16 | 198 | 22 | 14 | 24 | 90 | 74 |
| 20 | 207 | 25 | 17 | 28 | 96 | 73 |
| 25 | 221 | 30 | 22 | 37 | 107 | 71 |
| 32 | 240 | 35 | 22 | 37 | 117 | 72 |
| 40 | 270 | 42 | 22 | 44 | 130 | 80 |
| 50 | | | 22 | 48 | 146 | 82 |
| 63 | | | 22 | 60 | 164 | 82 |

# PVC-U

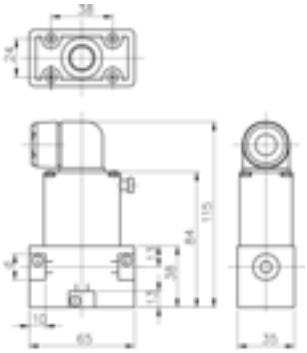
# Solenoid valves



## Solenoid valve type 157 PVC-U
## Nominal voltage 230V 50 Hz ±10%
## Function A straight passage valve
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 157 007** | **199 157 002** | 0.320 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 157 008** | **199 157 003** | 0.320 | |
| 8 | G3/8 | 0.0 - 1.0 | **199 157 009** | **199 157 004** | 0.320 | |

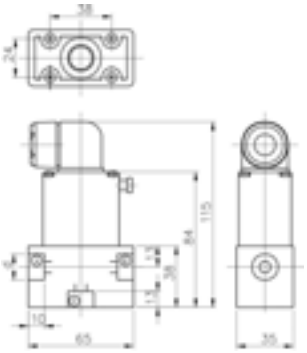


## Solenoid valve type 157 PVC-U
## Nominal voltage 230V 50 Hz ±10%
## Function B straight passage valve
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 157 027** | **199 157 022** | 0.320 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 157 028** | **199 157 023** | 0.320 | |
| 8 | G3/8 | 0.0 - 1.0 | **199 157 029** | **199 157 024** | 0.320 | |

# PVC-U

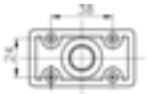


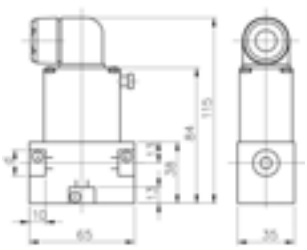

## Solenoid valve type 157 PVC-U
## Nominal voltage 24V DC *24V AC/DC
## Function A straight passage valve
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 157 627** | **199 157 622** | 0.320 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 157 628** | **199 157 623** | 0.320 | |
| *8 | G3/8 | 0.0 - 1.0 | **199 157 629** | **199 157 624** | 0.320 | |

# PVC-U

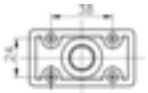


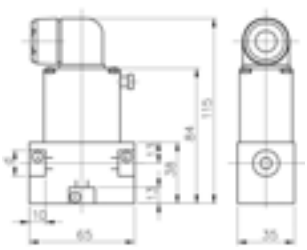


## Solenoid valve type 158 PVC-U
## Nominal voltage 230V 50 Hz ±10%
## Function C
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 007** | **199 158 002** | 0.320 |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 008** | **199 158 003** | 0.320 |



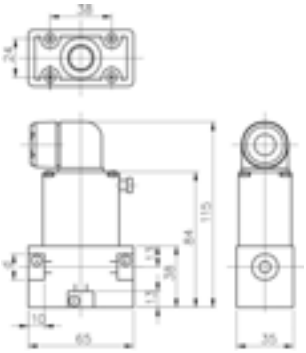


## Solenoid valve type 158 PVC-U
## Nominal voltage 230V 50 Hz ±10%
## Function F
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 158 067** | **199 158 062** | 0.320 |
| 6 | G3/8 | 0.0 - 2.0 | **199 158 068** | **199 158 063** | 0.320 |

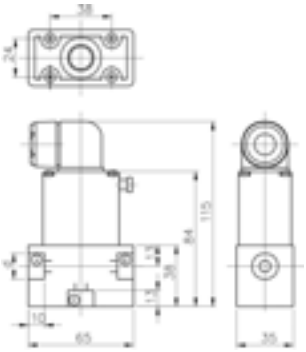
# PVC-U



## Solenoid valve type 158 PVC-U
## Nominal voltage 230V 50 Hz ±10%
## Function E
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 047** | **199 158 042** | 0.320 | |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 048** | **199 158 043** | 0.320 | |



## Solenoid valve type 158 PVC-U
## Nominal voltage 24V DC
## Function E
## With solvent cement sockets metric

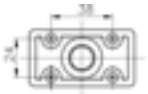
- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

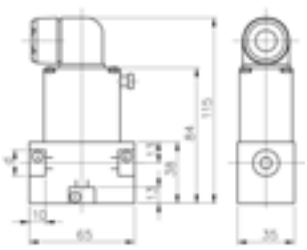
| DN [mm] | d [mm] | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | 16 | 0.0 - 2.0 | **199 158 677** | **199 158 672** | 0.320 | |
| 6 | 16 | 0.0 - 1.0 | **199 158 678** | **199 158 673** | 0.320 | |

# PVC-U

## Solenoid valve type 158 PVC-U
## Nominal voltage 24V DC
## Function F
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

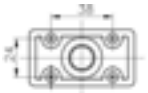


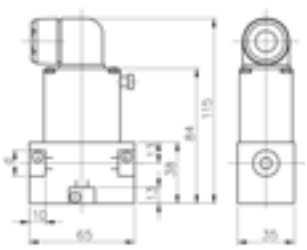


| DN [mm] | d [mm] | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | 16 | 0.0 - 4.0 | **199 158 697** | **199 158 692** | 0.320 | |
| 6 | 16 | 0.0 - 2.0 | **199 158 698** | **199 158 693** | 0.320 | |

## Solenoid valve type 158 PVC-U
## Nominal voltage 24V DC
## Function E
## With threaded sockets parallel female thread Rp

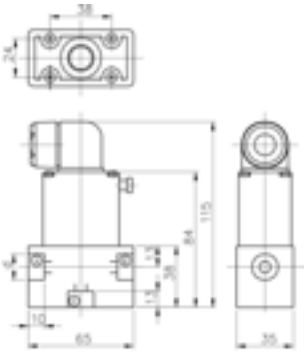
- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request





| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 667** | **199 158 662** | 0.320 | |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 668** | **199 158 663** | 0.320 | |

# PVC-U

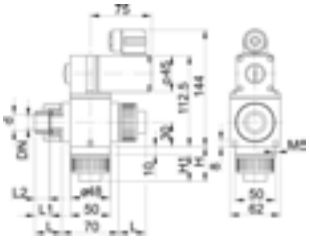


## Solenoid valve type 158 PVC-U
## Nominal voltage 24V DC
## Function F
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 158 687** | **199 158 682** | 0.320 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 158 688** | **199 158 683** | 0.320 | |

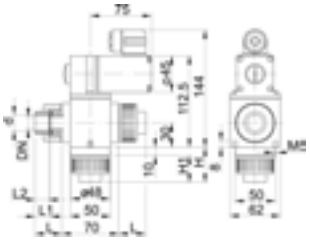
# PVC-U



## Solenoid valve type 160 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function A
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65
- Voltages: 24, 115, 230 V on request

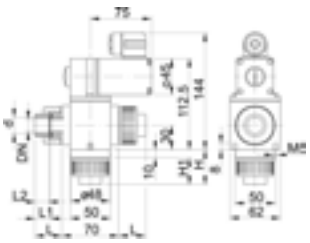
| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 3.0 | 33 | **199 160 010** | **199 160 005** | 1.200 | 30 | 17 | 14 |
| 10 | 20 | 0.0 - 3.0 | 33 | **199 160 011** | **199 160 006** | 1.050 | 30 | 17 | 14 |
| 15 | 20 | 0.0 - 1.0 | 75 | **199 160 012** | **199 160 007** | 1.050 | 33 | 19 | 16 |
| 15 | 25 | 0.0 - 1.0 | 75 | **199 160 013** | **199 160 008** | 1.050 | 33 | 19 | 16 |
| 20 | 25 | 0.0 - 0.5 | 100 | **199 160 014** | **199 160 009** | 1.050 | 37 | 22 | 19 |



## Solenoid valve type 160 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function B
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65
- Voltages: 24, 115, 230 V on request

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 2.0 | 33 | **199 160 025** | **199 160 020** | 1.200 | 30 | 17 | 14 |
| 10 | 20 | 0.0 - 2.0 | 33 | **199 160 026** | **199 160 021** | 1.200 | 30 | 17 | 14 |
| 15 | 20 | 0.0 - 1.0 | 75 | **199 160 027** | **199 160 022** | 1.200 | 33 | 19 | 16 |
| 15 | 25 | 0.0 - 1.0 | 75 | **199 160 028** | **199 160 023** | 1.050 | 33 | 19 | 16 |
| 20 | 25 | 0.0 - 0.5 | 100 | **199 160 029** | **199 160 024** | 1.200 | 37 | 22 | 19 |

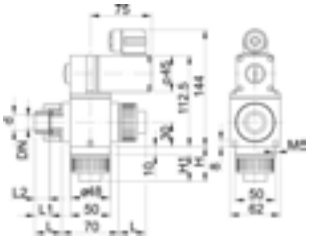


## Solenoid valve type 160 PVC-U
## Nominal voltage 24V AC/DC
## Function A
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65
- Voltages: 24, 115, 230 V on request

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 3.0 | 33 | **199 160 370** | **199 160 365** | 1.050 | 30 | 17 | 14 |
| 10 | 20 | 0.0 - 3.0 | 33 | **199 160 371** | **199 160 366** | 1.050 | 30 | 17 | 14 |
| 15 | 20 | 0.0 - 1.0 | 75 | **199 160 372** | **199 160 367** | 1.050 | 33 | 19 | 16 |
| 15 | 25 | 0.0 - 1.0 | 75 | **199 160 373** | **199 160 368** | 1.200 | 33 | 19 | 16 |
| 20 | 25 | 0.0 - 0.5 | 100 | **199 160 374** | **199 160 369** | 1.050 | 37 | 22 | 19 |

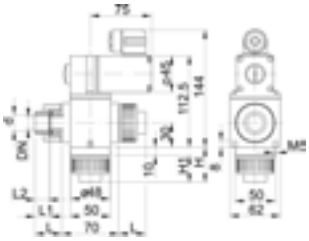
# PVC-U



## Solenoid valve type 160 PVC-U
## Nominal voltage 24V AC/DC
## Function B
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65
- Voltages: 24, 115, 230 V on request

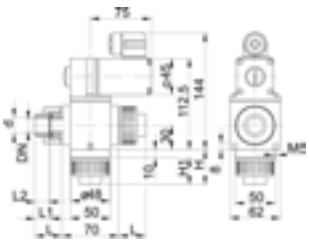
| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 2.0 | 33 | **199 160 385** | **199 160 380** | 0.975 | 30 | 17 | 14 |
| 10 | 20 | 0.0 - 2.0 | 33 | **199 160 386** | **199 160 381** | 1.200 | 30 | 17 | 14 |
| 15 | 20 | 0.0 - 1.0 | 75 | **199 160 387** | **199 160 382** | 1.200 | 33 | 19 | 16 |
| 15 | 25 | 0.0 - 1.0 | 75 | **199 160 388** | **199 160 383** | 1.200 | 33 | 19 | 16 |
| 20 | 25 | 0.0 - 0.5 | 100 | **199 160 389** | **199 160 384** | 1.050 | 37 | 22 | 19 |



## Solenoid valve type 160 PVC-U
## Nominal voltage 24V AC/DC
## Function B
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | Inch | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | ⅜ | 0.0 - 2.0 | 33 | **199 160 415** | **199 160 410** | 1.050 | 30 | 17 | 14 |
| 10 | 20 | ½ | 0.0 - 2.0 | 33 | **199 160 416** | **199 160 411** | 1.200 | 30 | 17 | 14 |
| 15 | 20 | ½ | 0.0 - 1.0 | 75 | **199 160 417** | **199 160 412** | 1.200 | 33 | 19 | 16 |
| 15 | 25 | ¾ | 0.0 - 1.0 | 75 | **199 160 418** | **199 160 413** | 1.200 | 33 | 19 | 16 |
| 20 | 25 | ⅝ | 0.0 - 0.5 | 100 | **199 160 419** | **199 160 414** | 1.200 | 37 | 22 | 19 |

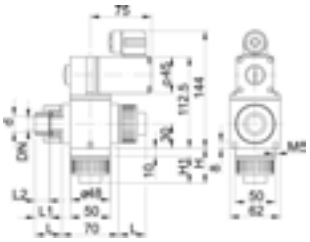


## Solenoid valve type 160 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function A
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- Straight passage
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | Inch | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 16 | ⅜ | 0.0 - 3.0 | 33 | **199 160 040** | **199 160 035** | 30 | 17 | 14 |
| 10 | 20 | ½ | 0.0 - 3.0 | 33 | **199 160 041** | **199 160 036** | 30 | 17 | 14 |
| 15 | 20 | ½ | 0.0 - 1.0 | 75 | **199 160 042** | **199 160 037** | 33 | 19 | 16 |
| 15 | 25 | ¾ | 0.0 - 1.0 | 75 | **199 160 043** | **199 160 038** | 33 | 19 | 16 |
| 20 | 25 | ¾ | 0.0 - 0.5 | 100 | **199 160 044** | **199 160 039** | 37 | 22 | 19 |

# PVC-U

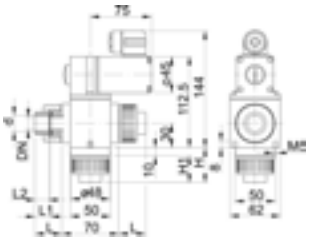


## Solenoid valve type 161 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function C
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 0 - 1.00 | 33 | **199 161 010** | **199 161 005** | 1.200 |
| 10 | 20 | 0 - 1.00 | 33 | **199 161 011** | **199 161 006** | 1.200 |
| 15 | 20 | 0 - 0.50 | 67 | **199 161 012** | **199 161 007** | 1.200 |
| 15 | 25 | 0 - 0.50 | 67 | **199 161 013** | **199 161 008** | 1.200 |
| 20 | 25 | 0 - 0.25 | 83 | **199 161 014** | **199 161 009** | 1.200 |

| DN [mm] | d [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|
| 10 | 16 | 30 | 17 | 14 | 40 | 30 |
| 10 | 20 | 30 | 17 | 14 | 40 | 30 |
| 15 | 20 | 33 | 19 | 16 | 43 | 33 |
| 15 | 25 | 33 | 19 | 16 | 43 | 33 |
| 20 | 25 | 37 | 22 | 19 | 47 | 37 |



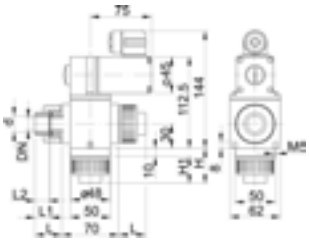
## Solenoid valve type 161 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function D
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 0 - 1.00 | 33 | **199 161 025** | **199 161 020** | 1.200 |
| 10 | 20 | 0 - 1.00 | 33 | **199 161 026** | **199 161 021** | 1.200 |
| 15 | 20 | 0 - 0.50 | 67 | **199 161 027** | **199 161 022** | 1.200 |
| 15 | 25 | 0 - 0.50 | 67 | **199 161 028** | **199 161 023** | 1.200 |
| 20 | 25 | 0 - 0.25 | 83 | **199 161 029** | **199 161 024** | 1.200 |

| DN [mm] | d [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|
| 10 | 16 | 30 | 17 | 14 | 40 | 30 |
| 10 | 20 | 30 | 17 | 14 | 40 | 30 |
| 15 | 20 | 33 | 19 | 16 | 43 | 33 |
| 15 | 25 | 33 | 19 | 16 | 43 | 33 |
| 20 | 25 | 37 | 22 | 19 | 47 | 37 |

# PVC-U

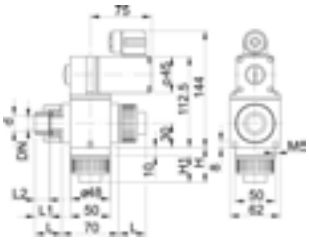


## Solenoid valve type 161 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function E
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 0.6 | 33 | **199 161 040** | **199 161 035** | 1.200 |
| 10 | 20 | 0.0 - 0.6 | 33 | **199 161 041** | **199 161 036** | 1.200 |
| 15 | 20 | 0.0 - 0.3 | 67 | **199 161 042** | **199 161 037** | 1.200 |
| 15 | 25 | 0.0 - 0.3 | 67 | **199 161 043** | **199 161 038** | 1.200 |
| 20 | 25 | 0.0 - 0.2 | 83 | **199 161 044** | **199 161 039** | 1.200 |

| DN [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|
| 10 | 30 | 17 | 14 | 40 | 30 |
| 10 | 30 | 17 | 14 | 40 | 30 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 20 | 37 | 22 | 19 | 47 | 37 |



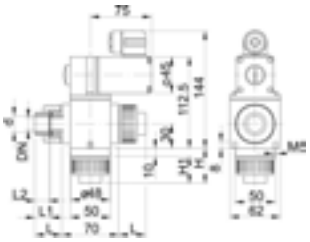
## Solenoid valve type 161 PVC-U
## Nominal voltage 24V AC/DC
## Function E
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 0.0 - 0.6 | 33 | **199 161 430** | **199 161 425** | 1.200 |
| 10 | 20 | 0.0 - 0.6 | 33 | **199 161 431** | **199 161 426** | 1.200 |
| 15 | 20 | 0.0 - 0.3 | 67 | **199 161 432** | **199 161 427** | 1.200 |
| 15 | 25 | 0.0 - 0.3 | 67 | **199 161 433** | **199 161 428** | 1.200 |
| 20 | 25 | 0.0 - 0.2 | 83 | **199 161 434** | **199 161 429** | 1.600 |

| DN [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|
| 10 | 30 | 17 | 14 | 40 | 30 |
| 10 | 30 | 17 | 14 | 40 | 30 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 20 | 37 | 22 | 19 | 47 | 37 |

# PVC-U

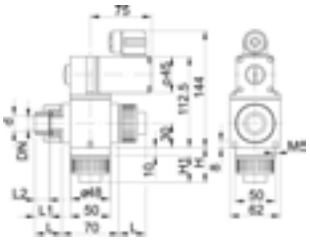


## Solenoid valve type 161 PVC-U
## Nominal voltage 230V 50 Hz ± 10%
## Function F
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 0 - 1.00 | 33 | **199 161 055** | **199 161 050** | 1.200 |
| 10 | 20 | 0 - 1.00 | 33 | **199 161 056** | **199 161 051** | 1.200 |
| 15 | 20 | 0 - 0.50 | 67 | **199 161 057** | **199 161 052** | 1.200 |
| 15 | 25 | 0 - 0.50 | 67 | **199 161 058** | **199 161 053** | 1.200 |
| 20 | 25 | 0 - 0.25 | 83 | **199 161 059** | **199 161 054** | 1.200 |

| DN [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|
| 10 | 30 | 17 | 14 | 40 | 30 |
| 10 | 30 | 17 | 14 | 40 | 30 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 15 | 33 | 19 | 16 | 43 | 33 |
| 20 | 37 | 22 | 19 | 47 | 37 |



## Solenoid valve type 161 PVC-U
## Nominal voltage 24V AC/DC
## Function F
## With solvent cement sockets metric

- Solenoid valve 3/2 ways
- Electric connection with cable plug
- Protection class IP 65

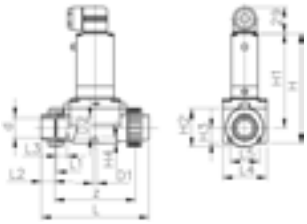
| DN [mm] | d [mm] | kv-value (Δp=1 bar) [l/min] | PN [bar] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 10 | 16 | 33 | 0 - 1.00 | **199 161 445** | **199 161 440** | 1.200 |
| 10 | 20 | 33 | 0 - 1.00 | **199 161 446** | **199 161 441** | 1.200 |
| 15 | 20 | 67 | 0 - 0.50 | **199 161 447** | **199 161 442** | 1.200 |
| 15 | 25 | 67 | 0 - 0.50 | **199 161 448** | **199 161 443** | 1.200 |
| 20 | 25 | 83 | 0 - 0.25 | **199 161 449** | **199 161 444** | 1.600 |

| DN [mm] | d [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|
| 10 | 16 | 30 | 17 | 14 | 40 | 30 |
| 10 | 20 | 30 | 17 | 14 | 40 | 30 |
| 15 | 20 | 33 | 19 | 16 | 43 | 33 |
| 15 | 25 | 33 | 19 | 16 | 43 | 33 |
| 20 | 25 | 37 | 22 | 19 | 47 | 37 |

# PVC-U

## Solenoid valve type 165 PVC-U
## Standard voltage 230V 50 Hz
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF

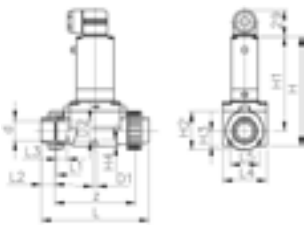


| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 15 | 20 | 0.5 - 6.0 | 83 | **199 165 012** | **199 165 002** | 0.650 |
| 20 | 25 | 0.5 - 6.0 | 100 | **199 165 013** | **199 165 003** | 0.650 |
| 25 | 32 | 0.5 - 6.0 | 233 | **199 165 014** | **199 165 004** | 1.200 |
| 32 | 40 | 0.5 - 6.0 | 267 | **199 165 015** | **199 165 005** | 1.200 |
| 40 | 50 | 0.5 - 6.0 | 500 | **199 165 016** | **199 165 006** | 2.200 |
| 50 | 63 | 0.5 - 6.0 | 600 | **199 165 017** | **199 165 007** | 2.200 |

| DN [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | | 116 | 148 | 110 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 20 | 25 | 116 | 154 | 110 | 19 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | | 147 | 190 | 141 | 22 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 32 | 40 | 147 | 198 | 141 | 26 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | | 198 | 254 | 192 | 31 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 50 | 63 | 198 | 268 | 192 | 38 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

## Solenoid valve type 165 PVC-U
## Standard voltage 115V 50 Hz
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF



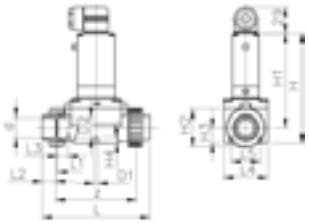
| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 15 | 20 | 0.5 - 6.0 | 83 | **199 165 042** | **199 165 032** | 0.700 |
| 20 | 25 | 0.5 - 6.0 | 100 | **199 165 043** | **199 165 033** | 0.700 |
| 25 | 32 | 0.5 - 6.0 | 233 | **199 165 044** | **199 165 034** | 1.200 |
| 32 | 40 | 0.5 - 6.0 | 267 | **199 165 045** | **199 165 035** | 1.200 |
| 40 | 50 | 0.5 - 6.0 | 500 | **199 165 046** | **199 165 036** | 2.200 |
| 50 | 63 | 0.5 - 6.0 | 600 | **199 165 047** | **199 165 037** | 2.200 |

| DN [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | | 116 | 148 | 110 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 20 | 25 | 116 | 154 | 110 | 19 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | | 147 | 190 | 141 | 22 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 32 | 40 | 147 | 198 | 141 | 26 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | | 198 | 254 | 192 | 31 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 50 | 63 | 198 | 268 | 192 | 38 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

# PVC-U

## Solenoid valve type 165 PVC-U
## Standard voltage 24V DC
## With solvent cement sockets metric

- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF



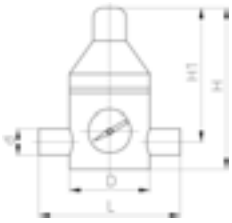
| DN [mm] | d [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 15 | 20 | 0.5 - 6.0 | 83 | **199 165 022** | **199 165 072** | 0.650 |
| 20 | 25 | 0.5 - 6.0 | 100 | **199 165 023** | **199 165 073** | 0.650 |
| 25 | 32 | 0.5 - 6.0 | 233 | **199 165 024** | **199 165 074** | 1.200 |
| 32 | 40 | 0.5 - 6.0 | 267 | **199 165 025** | **199 165 075** | 1.200 |
| 40 | 50 | 0.5 - 6.0 | 500 | **199 165 026** | **199 165 076** | 2.200 |
| 50 | 63 | 0.5 - 6.0 | 600 | **199 165 027** | **199 165 077** | 2.200 |

| DN [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | | 116 | 148 | 110 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 20 | 25 | 116 | 154 | 110 | 19 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | | 147 | 190 | 141 | 22 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 32 | 40 | 147 | 198 | 141 | 26 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | | 198 | 254 | 192 | 31 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 50 | 63 | 198 | 268 | 192 | 38 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

# PVC-U

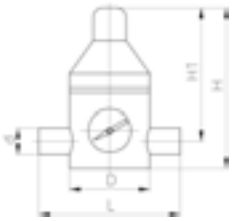
# Process control valves

## Pressure reducing valve type V 82 PVC-U
## With solvent cement spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 012** | **199 041 022** | 0.680 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 013** | **199 041 023** | 0.680 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 014** | **199 041 024** | 1.350 | 100 | 174 | 180 | 134 |
| 32 | 25 | 0.5 - 10 | **199 041 015** | **199 041 025** | 1.630 | 100 | 174 | 180 | 134 |
| 40 | 32 | 0.5 - 10 | **199 041 016** | **199 041 026** | 2.960 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 017** | **199 041 027** | 2.960 | 130 | 224 | 230 | 175 |
| 63 | 50 | 0.5 - 10 | **199 041 018** | **199 041 028** | 5.180 | 150 | 244 | 285 | 210 |
| 75 | 65 | 0.5 - 6 | **199 041 019** | **199 041 029** | 10.430 | 200 | 300 | 350 | 250 |
| 90 | 80 | 0.5 - 6 | **199 041 020** | **199 041 030** | 19.630 | 250 | 360 | 425 | 305 |
| 110 | 100 | 0.5 - 4 | **199 041 021** | **199 041 031** | 31.640 | 300 | 420 | 495 | 345 |

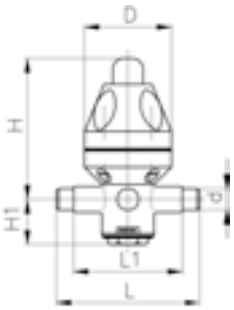
## Pressure reducing valve type V 182 PVC-U
## With solvent cement spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 611** | 0.680 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 612** | 0.680 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 613** | 1.350 | 100 | 174 | 180 | 134 |
| 32 | 25 | 0.5 - 10 | **199 041 614** | 1.350 | 100 | 174 | 180 | 134 |
| 40 | 32 | 0.5 - 10 | **199 041 615** | 2.950 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 616** | 2.950 | 130 | 224 | 230 | 175 |

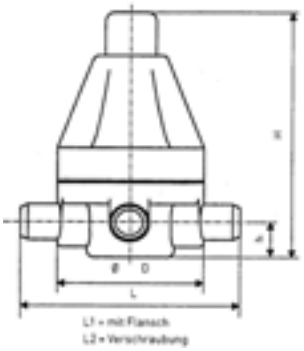
# PVC-U

## Pressure reducing valve type V 782 PVC-U
## With solvent cement spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 060** | **199 041 066** | 0.620 | 83 | 134 | 102 | 138 | 48 | |
| 20 | 15 | 0.5 - 10 | **199 041 061** | **199 041 067** | 0.620 | 83 | 134 | 102 | 138 | 48 | |
| 25 | 20 | 0.5 - 10 | **199 041 062** | **199 041 068** | 1.700 | 113 | 154 | 110 | 205 | 65 | |
| 32 | 25 | 0.5 - 10 | **199 041 063** | **199 041 069** | 1.700 | 113 | 154 | 110 | 205 | 65 | |
| 40 | 32 | 0.5 - 10 | **199 041 064** | **199 041 070** | 4.840 | 165 | 224 | 162 | 248 | 95 | |
| 50 | 40 | 0.5 - 10 | **199 041 065** | **199 041 071** | 4.840 | 165 | 224 | 162 | 248 | 95 | |

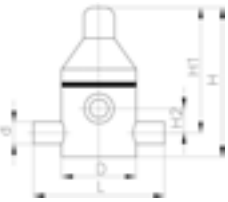
## Pressure relief valve type V 185 PVC-U
## With solvent cement spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 330** | 0.400 | 83 | 134 | 137 | 20 | |
| 20 | 15 | 0.5 - 10 | **199 041 331** | 0.400 | 83 | 134 | 137 | 20 | |
| 25 | 20 | 0.5 - 10 | **199 041 332** | 0.400 | 83 | 134 | 137 | 20 | |
| 32 | 25 | 0.5 - 10 | **199 041 333** | 1.200 | 112 | 174 | 199 | 27 | |
| 40 | 32 | 0.5 - 10 | **199 041 334** | 1.200 | 112 | 174 | 199 | 43 | |
| 50 | 40 | 0.5 - 10 | **199 041 335** | 6.400 | 165 | 224 | 290 | 43 | |
| 63 | 50 | 0.5 - 10 | **199 041 336** | 6.500 | 165 | 244 | 290 | 43 | |

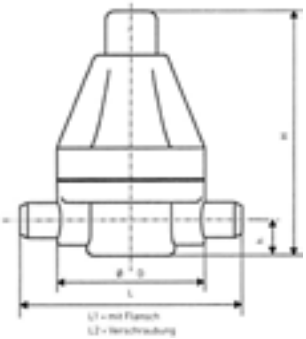
# PVC-U

## Pressure relief valve type V 85 PVC-U
## With solvent cement spigots metric



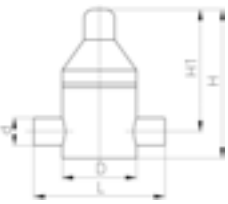
| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 1.0 - 6 | **199 041 919** | **199 041 984** | 8.200 | 180 | 284 | 295 | 250 | 70 |
| 90 | 80 | 1.0 - 6 | **199 041 940** | **199 041 985** | 12.800 | 200 | 300 | 400 | 340 | 95 |
| 110 | 100 | 1.0 - 4 | **199 041 914** | **199 041 986** | 22.700 | 250 | 380 | 475 | 405 | 110 |

## Pressure retaining valve type V 186 PVC-U
## With solvent cement spigots metric



| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 309** | 0.400 | 83 | 134 | 137 | 20 |
| 20 | 15 | 0.5 - 10 | **199 041 310** | 0.400 | 83 | 134 | 137 | 20 |
| 25 | 20 | 0.5 - 10 | **199 041 311** | 0.400 | 83 | 134 | 137 | 20 |
| 32 | 25 | 0.5 - 10 | **199 041 312** | 1.200 | 112 | 174 | 199 | 27 |
| 40 | 32 | 0.5 - 10 | **199 041 313** | 1.200 | 112 | 174 | 199 | 43 |
| 50 | 40 | 0.5 - 10 | **199 041 314** | 6.400 | 165 | 224 | 290 | 43 |
| 63 | 50 | 0.5 - 10 | **199 041 315** | 6.500 | 165 | 244 | 290 | 43 |

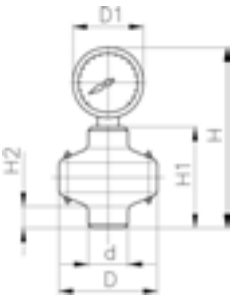
## Pressure retaining valve type V 86 PVC-U
## With solvent cement spigots metric



| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 0.2 - 4 | **199 041 922** | **199 041 989** | 7.700 | 180 | 284 | 275 | 230 |
| 75 | 65 | 1.0 - 6 | **199 041 950** | **199 041 990** | 7.700 | 180 | 284 | 275 | 230 |
| 90 | 80 | 0.2 - 4 | **199 041 987** | **199 041 944** | 17.700 | 250 | 360 | 410 | 320 |
| 90 | 80 | 1.0 - 6 | **199 041 988** | **199 041 991** | 17.700 | 250 | 360 | 410 | 320 |
| 110 | 100 | 1.0 - 4 | **199 041 953** | **199 041 945** | 19.600 | 250 | 380 | 485 | 415 |

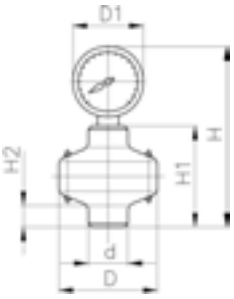
# PVC-U

## Gauge guard type Z 700 PVC-U
## With manometer 0-10 bar




| d [mm] | PTFE Code | kg | G_R | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 25 | **199 041 000** | 0.300 | ¼ | 72 | 63 | 129 | 71 | 15 |
| 32 | **199 041 001** | 0.600 | ½ | 100 | 100 | 210 | 90 | 22 |

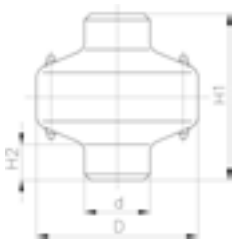
## Gauge guard type Z 700 PVC-U
## With manometer 0-6 bar




| d [mm] | PTFE Code | kg | G_R | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 25 | **199 041 292** | 0.300 | ¼ | 72 | 63 | 129 | 71 | 15 |
| 32 | **199 041 293** | 0.600 | ½ | 100 | 100 | 210 | 90 | 22 |

# PVC-U

## Gauge guard type Z 701 PVC-U
## Without manometer

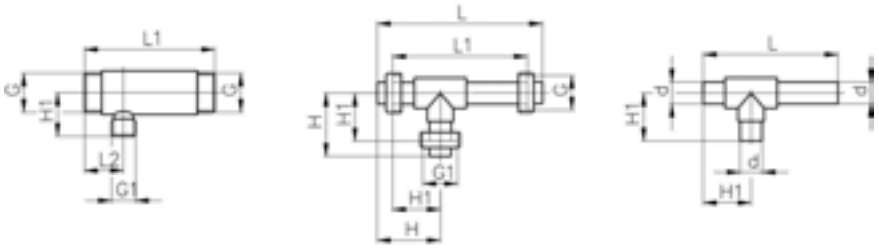



| d [mm] | PTFE Code | kg | G_R | D [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|
| 25 | **199 041 006** | 0.140 | ¼ | 72 | 71 | 15 |
| 32 | **199 041 007** | 0.250 | ½ | 100 | 90 | 22 |

## Water jet suction pump type P 20 PVC-U

- DN 10-20: BSP parallel female thread
- DN 25-50: Solvent cement socket metric
- DN 65-80: Solvent cement spigot metric

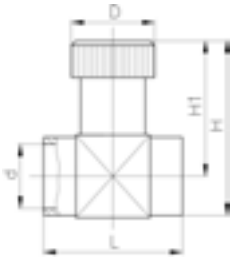
| d [mm] | DN [mm] | PN | EPDM Code | kg | G [inch] | G1 [inch] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 120** | 0.140 | R 3/4 | R 3/4 | | 110 | 40 | | 35 |
| 20 | 15 | 10 | **199 041 121** | 0.220 | R 1 | R 3/4 | | 125 | 40 | | 35 |
| 25 | 20 | 10 | **199 041 122** | 0.400 | R 1 1/4 | R 3/4 | | 145 | 45 | | 45 |
| 32 | 25 | 10 | **199 041 123** | 0.480 | R 1 1/2 | R 1 1/2 | 245 | 195 | | 96 | 71 |
| 40 | 32 | 10 | **199 041 124** | 0.870 | R 2 | R 2 | 297 | 239 | | 116 | 87 |
| 50 | 40 | 10 | **199 041 125** | 1.380 | R 2 1/4 | R 2 1/4 | 369 | 301 | | 139 | 105 |
| 63 | 50 | 10 | **199 041 126** | 2.450 | R 2 3/4 | R 2 3/4 | 433 | 351 | | 169 | 128 |
| 75 | 65 | 10 | **199 041 127** | 2.350 | | | 388 | | | | 115 |
| 90 | 80 | 10 | **199 041 128** | 4.090 | | | 465 | | | | 149 |




DN 10 – 20 DN 25 – 50 DN 65 – 80

# PVC-U

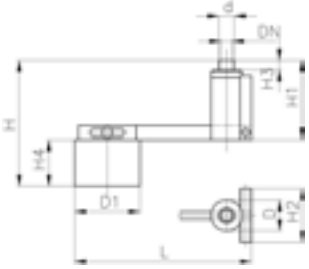
## Throttle valve type V 251 PVC-U
## With solvent cement sockets metric




| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 203** | **199 041 210** | 0.048 | 29 | 47 | 57 | 45 |
| 20 | 15 | 10 | **199 041 204** | **199 041 211** | 0.120 | 35 | 55 | 66 | 51 |
| 25 | 20 | 10 | **199 041 205** | **199 041 212** | 0.124 | 40 | 66 | 80 | 63 |
| 32 | 25 | 10 | **199 041 206** | **199 041 213** | 0.219 | 47 | 80 | 96 | 75 |
| 40 | 32 | 10 | **199 041 207** | **199 041 214** | 0.150 | 56 | 100 | 111 | 86 |
| 50 | 40 | 10 | **199 041 208** | **199 041 215** | 0.662 | 70 | 120 | 133 | 101 |
| 63 | 50 | 10 | **199 041 209** | **199 041 216** | 1.240 | 88 | 146 | 158 | 118 |

## Float valve type V 140 PVC-U
## With solvent cement spigots metric

- Lever 1:10




| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 6 | **199 041 147** | **199 041 156** | 0.300 |
| 20 | 15 | 6 | **199 041 148** | **199 041 157** | 0.300 |
| 25 | 20 | 6 | **199 041 149** | **199 041 158** | 0.300 |
| 32 | 25 | 6 | **199 041 150** | **199 041 159** | 0.400 |
| 40 | 32 | 6 | **199 041 151** | **199 041 160** | 4.000 |
| 50 | 40 | 6 | **199 041 152** | **199 041 161** | 6.200 |
| 63 | 50 | 6 | **199 041 153** | **199 041 162** | 8.100 |
| 75 | 65 | 6 | **199 041 154** | **199 041 163** | 10.400 |
| 90 | 80 | 6 | **199 041 155** | **199 041 164** | 11.400 |

| d [mm] | D [mm] | D1 [mm] | L [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 125 | 380 | 270 | 120 | 80 | 14 | 130 |
| 20 | 45 | 125 | 380 | 270 | 120 | 80 | 16 | 130 |
| 25 | 65 | 160 | 530 | 340 | 160 | 110 | 19 | 170 |
| 32 | 65 | 160 | 530 | 345 | 165 | 110 | 22 | 170 |
| 40 | 90 | 225 | 720 | 440 | 210 | 130 | 26 | 210 |
| 50 | 90 | 225 | 720 | 445 | 215 | 130 | 31 | 210 |
| 63 | 130 | 315 | 975 | 595 | 255 | 160 | 38 | 290 |
| 75 | 130 | 315 | 975 | 600 | 260 | 160 | 44 | 290 |
| 90 | 150 | 355 | 1140 | 640 | 290 | 180 | 51 | 340 |

# Notes

# PVC-U

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# Notes

# Notes

# Notes

# PVC-C metric


| | | Page |
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| | Ball valves electric | 178 |
| | Ball valves pneumatic | 196 |
| | Diaphragm valves pneumatic | 221 |
| | Butterfly valves electric | 233 |
| | Butterfly valves pneumatic | 245 |

# PVC-C metric

# Ball valves electric

## Ball valve type 130 PVC-C 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

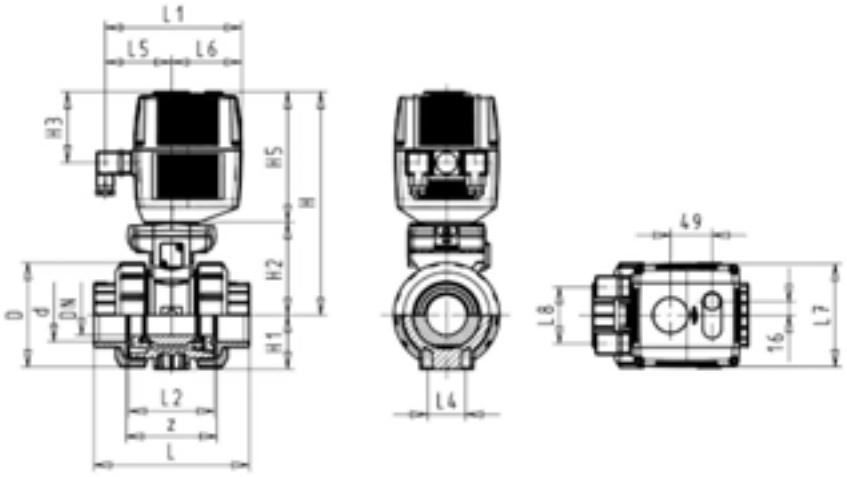
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 402** | **199 130 412** | 2.100 | |
| 20 | 15 | 10 | 185 | **199 130 403** | **199 130 413** | 2.100 | |
| 25 | 20 | 10 | 350 | **199 130 404** | **199 130 414** | 2.200 | |
| 32 | 25 | 10 | 700 | **199 130 405** | **199 130 415** | 2.300 | |
| 40 | 32 | 10 | 1000 | **199 130 406** | **199 130 416** | 2.600 | |
| 50 | 40 | 10 | 1600 | **199 130 407** | **199 130 417** | 3.000 | |
| 63 | 50 | 10 | 3100 | **199 130 408** | **199 130 418** | 3.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-C metric

## Ball valve type 130 PVC-C 100-230V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

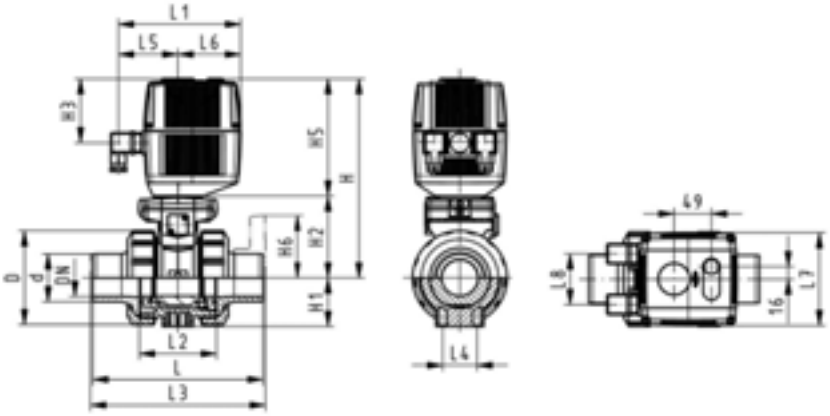
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 422** | **199 130 432** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 423** | **199 130 433** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 424** | **199 130 434** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 425** | **199 130 435** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 426** | **199 130 436** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 427** | **199 130 437** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 428** | **199 130 438** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PVC-C metric

## Ball valve type 130 PVC-C 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

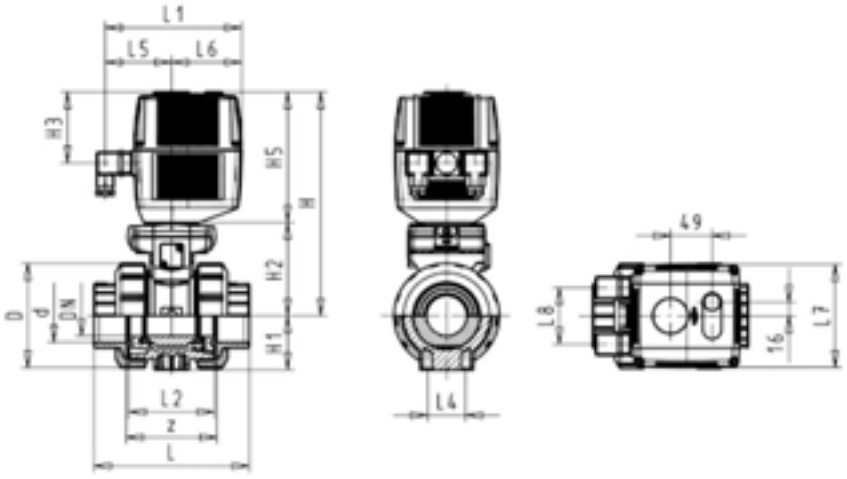
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 182** | **199 130 192** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 183** | **199 130 193** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 184** | **199 130 194** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 185** | **199 130 195** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 186** | **199 130 196** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 187** | **199 130 197** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 188** | **199 130 198** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-C metric

## Ball valve type 130 PVC-C 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

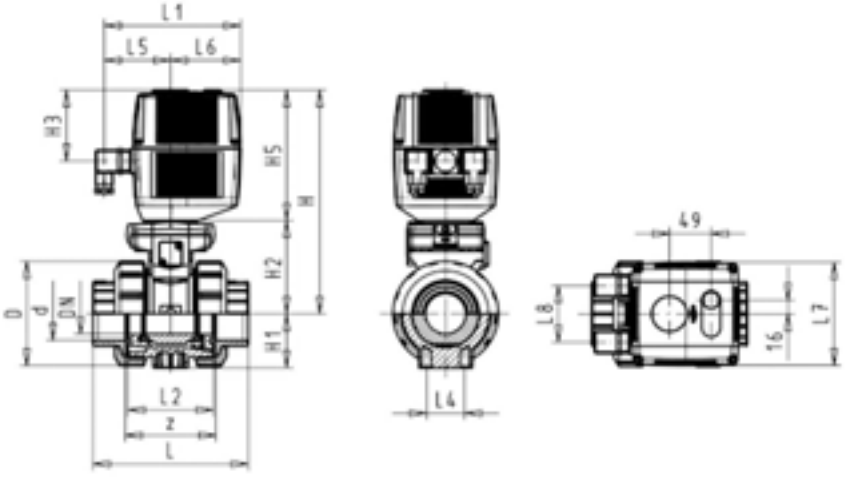
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 442** | **199 130 452** | 2.100 | |
| 20 | 15 | 10 | 185 | **199 130 443** | **199 130 453** | 2.100 | |
| 25 | 20 | 10 | 350 | **199 130 444** | **199 130 454** | 2.200 | |
| 32 | 25 | 10 | 700 | **199 130 445** | **199 130 455** | 2.300 | |
| 40 | 32 | 10 | 1000 | **199 130 446** | **199 130 456** | 2.600 | |
| 50 | 40 | 10 | 1600 | **199 130 447** | **199 130 457** | 3.000 | |
| 63 | 50 | 10 | 3100 | **199 130 448** | **199 130 458** | 3.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-C metric

## Ball valve type 130 PVC-C 24V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

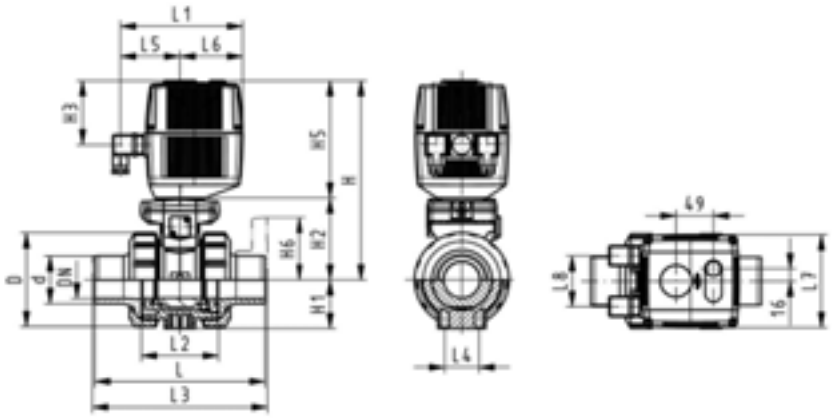
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 462** | **199 130 472** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 463** | **199 130 473** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 464** | **199 130 474** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 465** | **199 130 475** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 466** | **199 130 476** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 467** | **199 130 477** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 468** | **199 130 478** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 0 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PVC-C metric

## Ball valve type 130 PVC-C 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

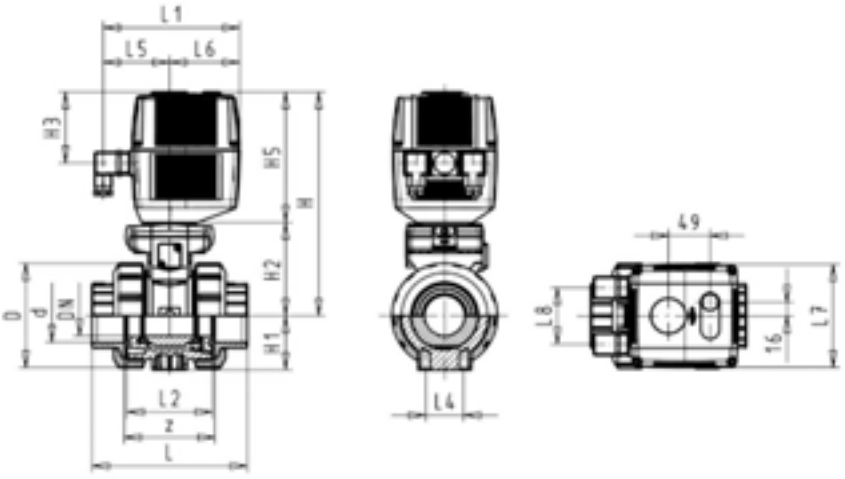
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 202** | **199 130 212** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 203** | **199 130 213** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 204** | **199 130 214** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 205** | **199 130 215** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 206** | **199 130 216** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 207** | **199 130 217** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 208** | **199 130 218** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# PVC-C metric

## Ball valve type 107 PVC-C 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

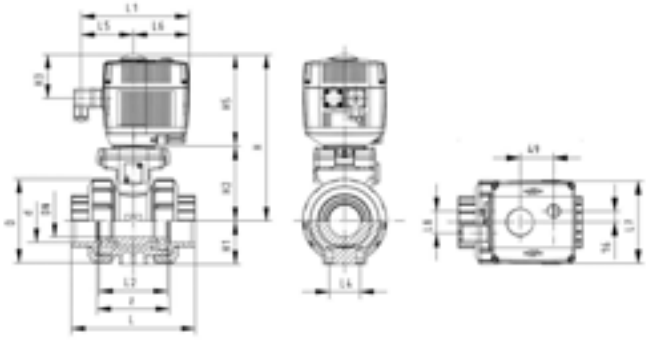
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 102** | **199 107 112** | 1.770 |
| 20 | 15 | 10 | 185 | **199 107 103** | **199 107 113** | 1.780 |
| 25 | 20 | 10 | 350 | **199 107 104** | **199 107 114** | 1.860 |
| 32 | 25 | 10 | 700 | **199 107 105** | **199 107 115** | 1.950 |
| 40 | 32 | 10 | 1000 | **199 107 106** | **199 107 116** | 2.190 |
| 50 | 40 | 10 | 1600 | **199 107 107** | **199 107 117** | 2.360 |
| 63 | 50 | 10 | 3100 | **199 107 108** | **199 107 118** | 3.140 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 64 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-C metric

## Ball valve type 107 PVC-C 100-230V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

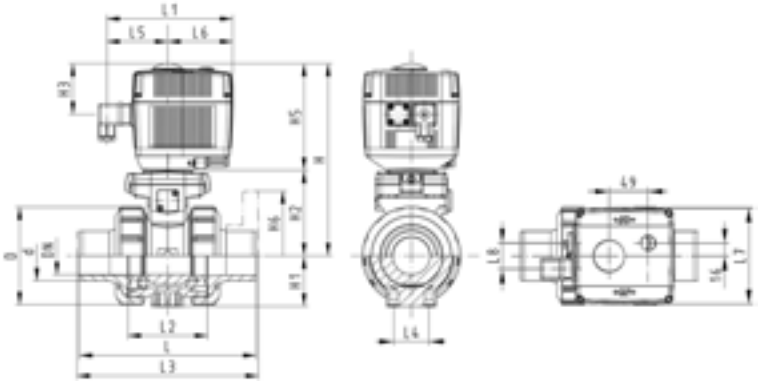
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 122** | **199 107 132** | 1.770 |
| 20 | 15 | 10 | 185 | **199 107 123** | **199 107 133** | 1.780 |
| 25 | 20 | 10 | 350 | **199 107 124** | **199 107 134** | 1.860 |
| 32 | 25 | 10 | 700 | **199 107 125** | **199 107 135** | 1.950 |
| 40 | 32 | 10 | 1000 | **199 107 126** | **199 107 136** | 2.190 |
| 50 | 40 | 10 | 1600 | **199 107 127** | **199 107 137** | 2.360 |
| 63 | 50 | 10 | 3100 | **199 107 128** | **199 107 138** | 3.140 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



# PVC-C metric

## Ball valve type 107 PVC-C 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

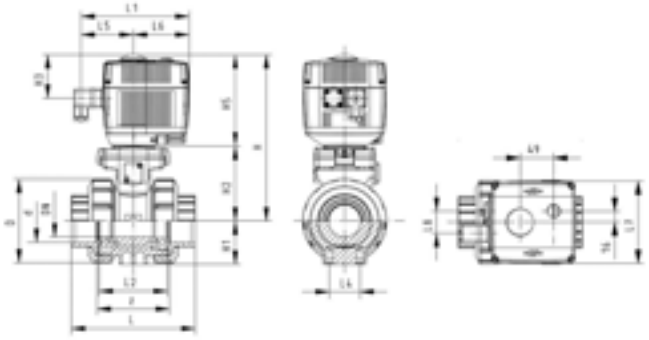
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 702** | **199 107 712** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 703** | **199 107 713** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 704** | **199 107 714** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 705** | **199 107 715** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 706** | **199 107 716** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 707** | **199 107 717** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 708** | **199 107 718** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-C metric

## Ball valve type 107 PVC-C 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

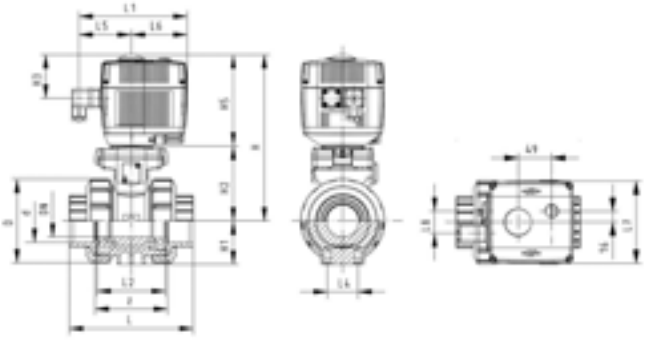
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 142** | **199 107 152** | 1.770 | |
| 20 | 15 | 10 | 185 | **199 107 143** | **199 107 153** | 1.780 | |
| 25 | 20 | 10 | 350 | **199 107 144** | **199 107 154** | 1.860 | |
| 32 | 25 | 10 | 700 | **199 107 145** | **199 107 155** | 1.950 | |
| 40 | 32 | 10 | 1000 | **199 107 146** | **199 107 156** | 2.190 | |
| 50 | 40 | 10 | 1600 | **199 107 147** | **199 107 157** | 2.360 | |
| 63 | 50 | 10 | 3100 | **199 107 148** | **199 107 158** | 3.140 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-C metric

## Ball valve type 107 PVC-C 24V
## With manual emergency override
## With solvent cement spigots metric

**Model:**

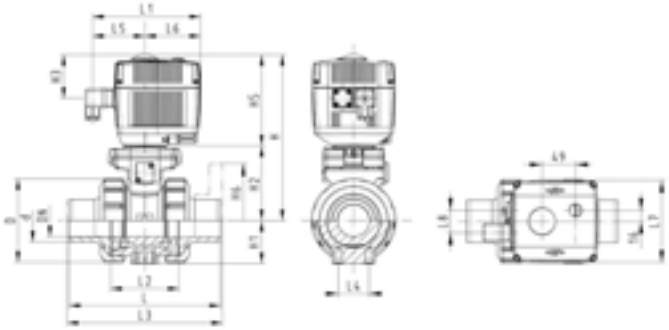
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 162** | **199 107 172** | 1.770 |
| 20 | 15 | 10 | 185 | **199 107 163** | **199 107 173** | 1.780 |
| 25 | 20 | 10 | 350 | **199 107 164** | **199 107 174** | 1.860 |
| 32 | 25 | 10 | 700 | **199 107 165** | **199 107 175** | 1.950 |
| 40 | 32 | 10 | 1000 | **199 107 166** | **199 107 176** | 2.190 |
| 50 | 40 | 10 | 1600 | **199 107 167** | **199 107 177** | 2.360 |
| 63 | 50 | 10 | 3100 | **199 107 168** | **199 107 178** | 3.140 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



# PVC-C metric

## Ball valve type 107 PVC-C 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

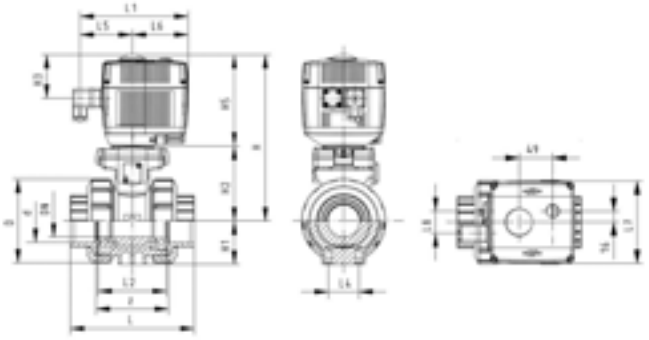
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 742** | **199 107 752** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 743** | **199 107 753** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 744** | **199 107 754** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 745** | **199 107 755** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 746** | **199 107 756** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 747** | **199 107 757** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 748** | **199 107 758** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# PVC-C metric

## Ball valve type 108 PVC-C 100-230V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)

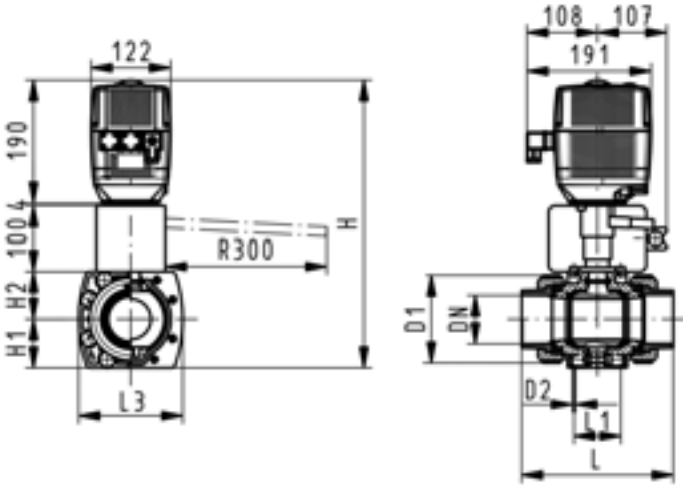
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | EA 31 | **199 108 018** | **199 108 021** | 7.900 | |
| 90 | 80 | 10 | 7000 | EA 31 | **199 108 019** | **199 108 022** | 9.400 | |
| 110 | 100 | 10 | 11000 | EA 31 | **199 108 020** | **199 108 023** | 12.900 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-C metric

## Ball valve type 108 PVC-C 24V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)

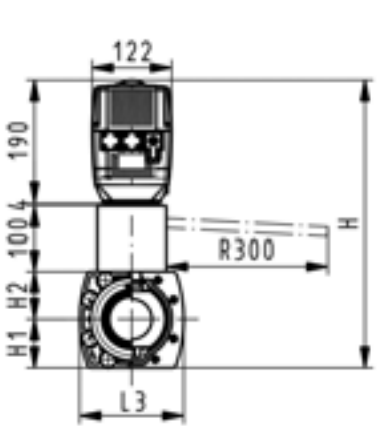
**Note:**

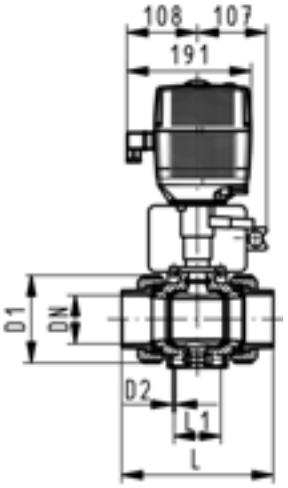
- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | EA 31 | **199 108 024** | **199 108 027** | 7.900 |
| 90 | 80 | 10 | 7000 | EA 31 | **199 108 025** | **199 108 028** | 9.400 |
| 110 | 100 | 10 | 11000 | EA 31 | **199 108 026** | **199 108 029** | 12.900 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# PVC-C metric

## 3-Way ball valve type 175 PVC-C
## Horizontal/L-port 100-230V
## With manual emergency override
## With solvent cement sockets metric

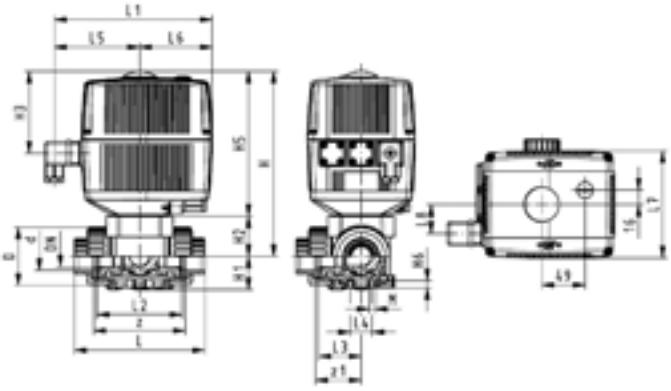
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 102** | **199 175 112** | 2.138 |
| 20 | 15 | 10 | 75 | **199 175 103** | **199 175 113** | 2.138 |
| 25 | 20 | 10 | 150 | **199 175 104** | **199 175 114** | 2.271 |
| 32 | 25 | 10 | 280 | **199 175 105** | **199 175 115** | 2.518 |
| 40 | 32 | 10 | 480 | **199 175 106** | **199 175 116** | 2.742 |
| 50 | 40 | 10 | 620 | **199 175 107** | **199 175 117** | 3.477 |
| 63 | 50 | 10 | 1230 | **199 175 108** | **199 175 118** | 4.956 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 175 PVC-C
## Horizontal/L-port 24V
## With manual emergency override
## With solvent cement sockets metric

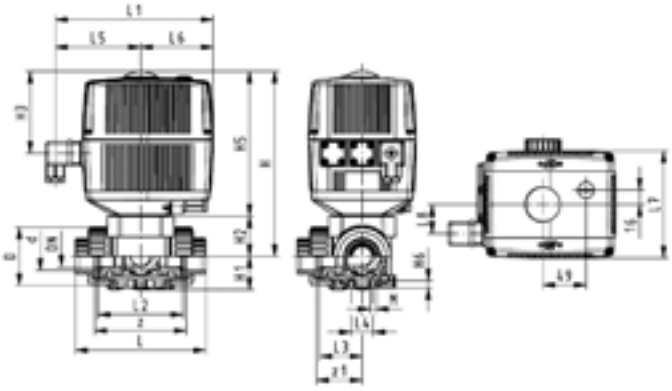
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 262** | **199 175 272** | 2.138 |
| 20 | 15 | 10 | 75 | **199 175 263** | **199 175 273** | 2.121 |
| 25 | 20 | 10 | 150 | **199 175 264** | **199 175 274** | 2.271 |
| 32 | 25 | 10 | 280 | **199 175 265** | **199 175 275** | 2.518 |
| 40 | 32 | 10 | 480 | **199 175 266** | **199 175 276** | 2.742 |
| 50 | 40 | 10 | 620 | **199 175 267** | **199 175 277** | 3.477 |
| 63 | 50 | 10 | 1230 | **199 175 268** | **199 175 278** | 4.956 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 175 PVC-C
## Horizontal/T-port 100-230V
## With manual emergency override
## With solvent cement sockets metric

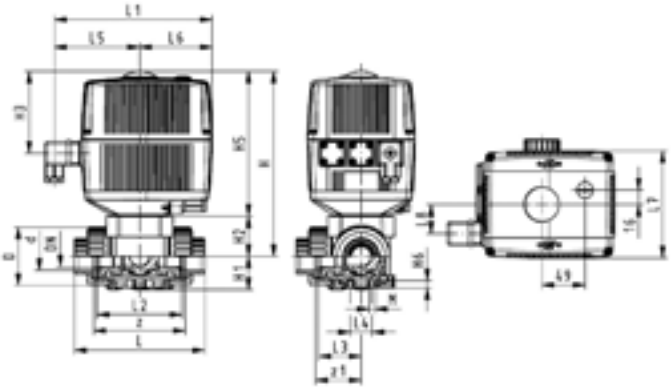
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 175 142** | **199 175 152** | 2.138 |
| 20 | 15 | 10 | 200 | **199 175 143** | **199 175 153** | 2.138 |
| 25 | 20 | 10 | 470 | **199 175 144** | **199 175 154** | 2.271 |
| 32 | 25 | 10 | 793 | **199 175 145** | **199 175 155** | 2.518 |
| 40 | 32 | 10 | 1290 | **199 175 146** | **199 175 156** | 2.742 |
| 50 | 40 | 10 | 1910 | **199 175 147** | **199 175 157** | 3.477 |
| 63 | 50 | 10 | 3100 | **199 175 148** | **199 175 158** | 4.956 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 175 PVC-C
## Horizontal/T-port 24V
## With manual emergency override
## With solvent cement sockets metric

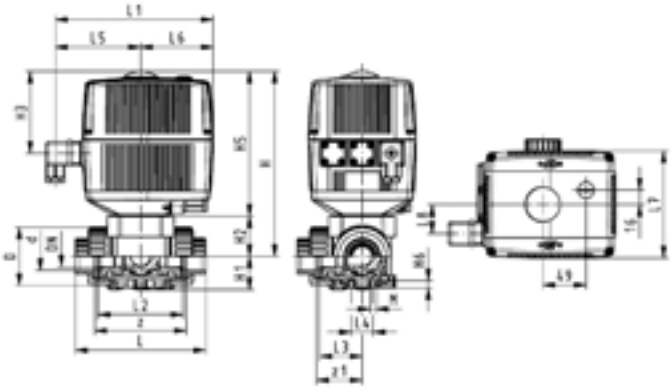
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 175 322** | **199 175 332** | 2.138 |
| 20 | 15 | 10 | 200 | **199 175 323** | **199 175 333** | 2.138 |
| 25 | 20 | 10 | 470 | **199 175 324** | **199 175 334** | 2.271 |
| 32 | 25 | 10 | 793 | **199 175 325** | **199 175 335** | 2.518 |
| 40 | 32 | 10 | 1290 | **199 175 326** | **199 175 336** | 2.742 |
| 50 | 40 | 10 | 1910 | **199 175 327** | **199 175 337** | 3.477 |
| 63 | 50 | 10 | 3100 | **199 175 328** | **199 175 338** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 43 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# PVC-C metric

# Ball valves pneumatic

## Ball valve type 230 PVC-C FC (Fail safe to close)
## With manual override
## With solvent cement sockets metric

**Model:**

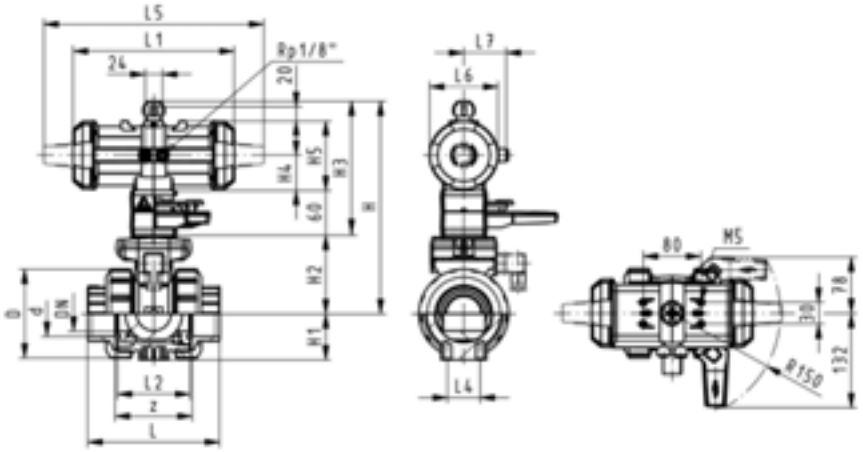
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 402** | **199 230 412** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 403** | **199 230 413** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 404** | **199 230 414** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 405** | **199 230 415** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 406** | **199 230 416** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 407** | **199 230 417** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 408** | **199 230 418** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FC (Fail safe to close)
## With manual override
## With solvent cement spigots metric

**Model:**

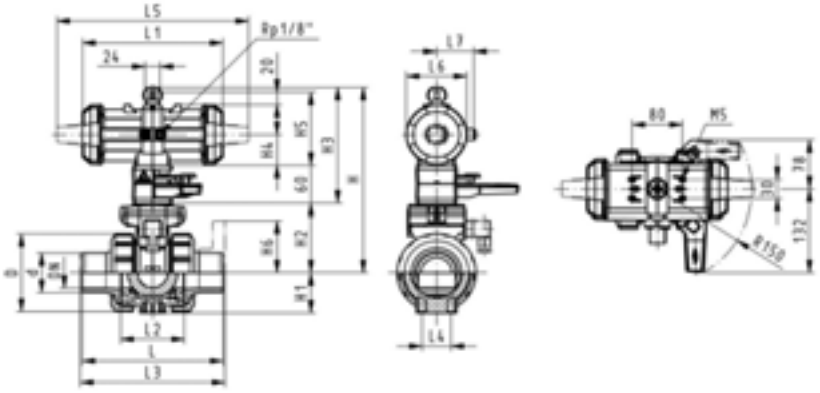
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 422** | **199 230 432** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 423** | **199 230 433** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 424** | **199 230 434** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 425** | **199 230 435** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 426** | **199 230 436** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 427** | **199 230 437** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 428** | **199 230 438** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C FC (Fail safe to close)
## With manual override
## With threaded sockets Rp

**Model:**

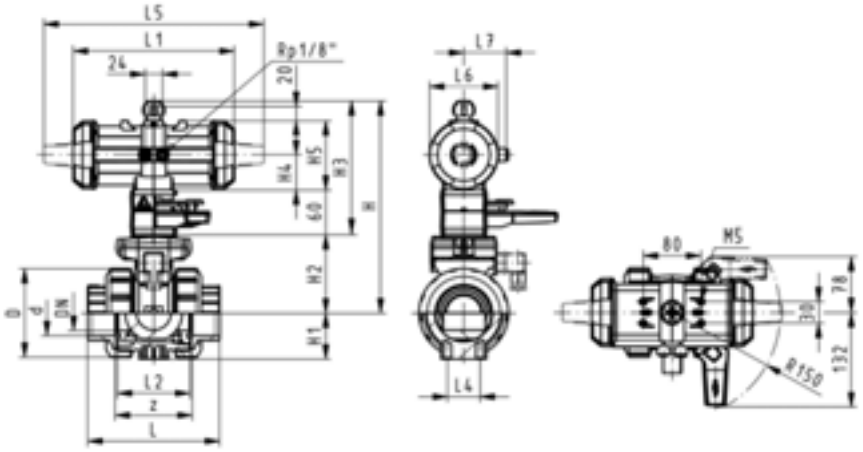
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 752** | **199 230 772** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 753** | **199 230 773** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 754** | **199 230 774** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 755** | **199 230 775** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 756** | **199 230 776** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 757** | **199 230 777** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 758** | **199 230 778** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FC (Fail safe to close)
## Without manual override
## With solvent cement sockets metric

**Model:**

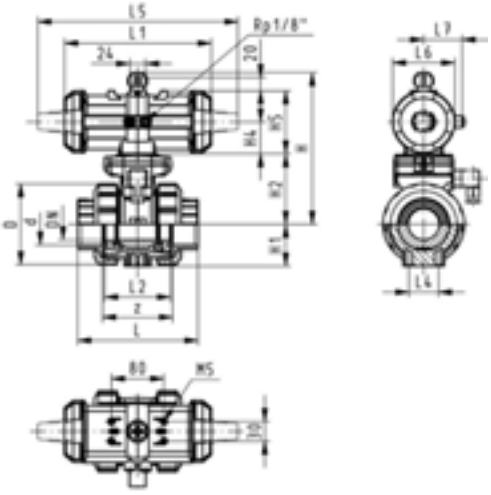
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 522** | **199 230 532** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 523** | **199 230 533** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 524** | **199 230 534** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 525** | **199 230 535** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 526** | **199 230 536** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 527** | **199 230 537** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 528** | **199 230 538** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FC (Fail safe to close)
## Without manual override
## With solvent cement spigots metric

**Model:**

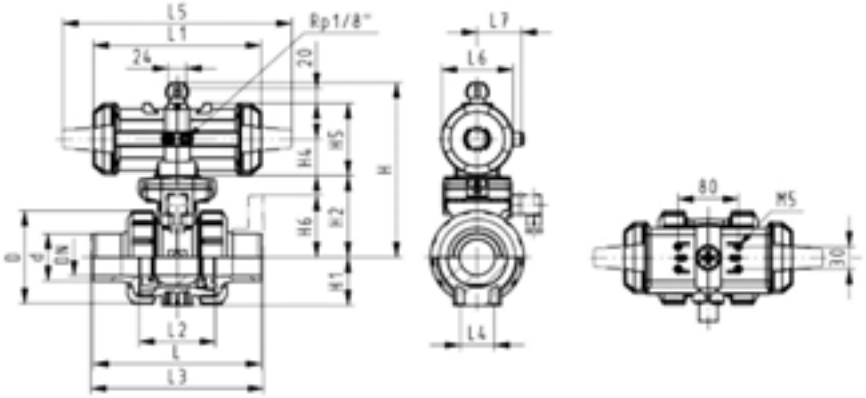
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 542** | **199 230 552** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 543** | **199 230 553** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 544** | **199 230 554** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 545** | **199 230 555** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 546** | **199 230 556** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 547** | **199 230 557** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 548** | **199 230 558** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 0 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C FC (Fail safe to close)
## Without manual override
## With threaded sockets Rp

**Model:**

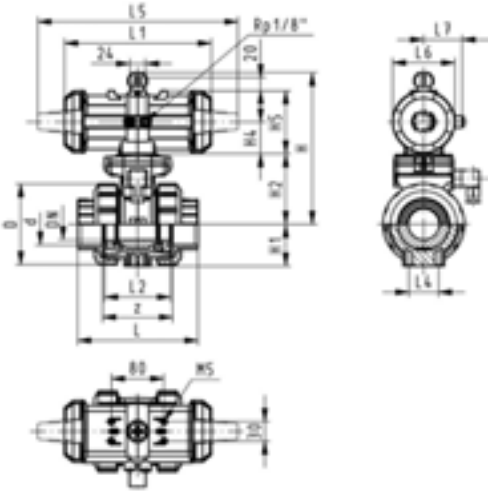
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 872** | **199 230 892** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 873** | **199 230 893** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 874** | **199 230 894** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 875** | **199 230 895** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 876** | **199 230 896** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 877** | **199 230 897** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 878** | **199 230 898** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## With manual override
## With solvent cement sockets metric

**Model:**

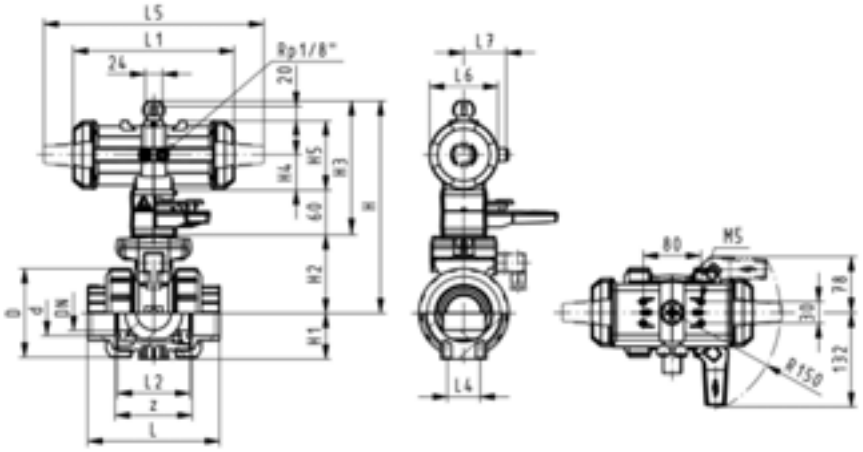
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 442** | **199 230 452** | 1.149 | |
| 20 | 15 | 10 | 185 | **199 230 443** | **199 230 453** | 1.459 | |
| 25 | 20 | 10 | 350 | **199 230 444** | **199 230 454** | 1.576 | |
| 32 | 25 | 10 | 700 | **199 230 445** | **199 230 455** | 1.700 | |
| 40 | 32 | 10 | 1000 | **199 230 446** | **199 230 456** | 2.751 | |
| 50 | 40 | 10 | 1600 | **199 230 447** | **199 230 457** | 3.073 | |
| 63 | 50 | 10 | 3100 | **199 230 448** | **199 230 458** | 3.931 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## With manual override
## With solvent cement spigots metric

**Model:**

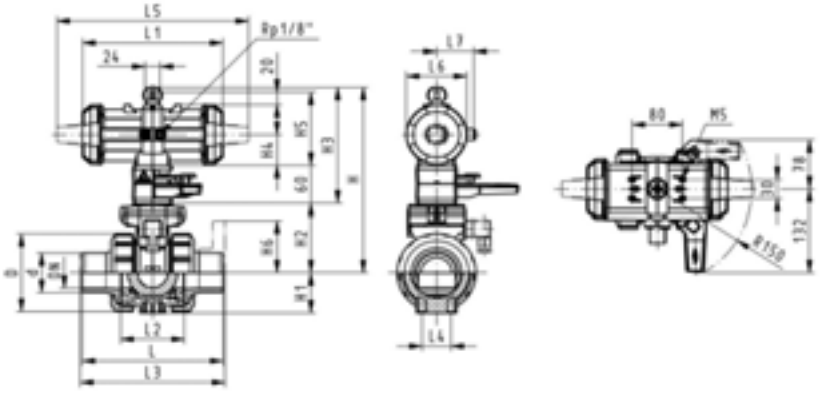
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 462** | **199 230 472** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 463** | **199 230 473** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 464** | **199 230 474** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 465** | **199 230 475** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 466** | **199 230 476** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 467** | **199 230 477** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 468** | **199 230 478** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## With manual override
## With threaded sockets Rp

**Model:**

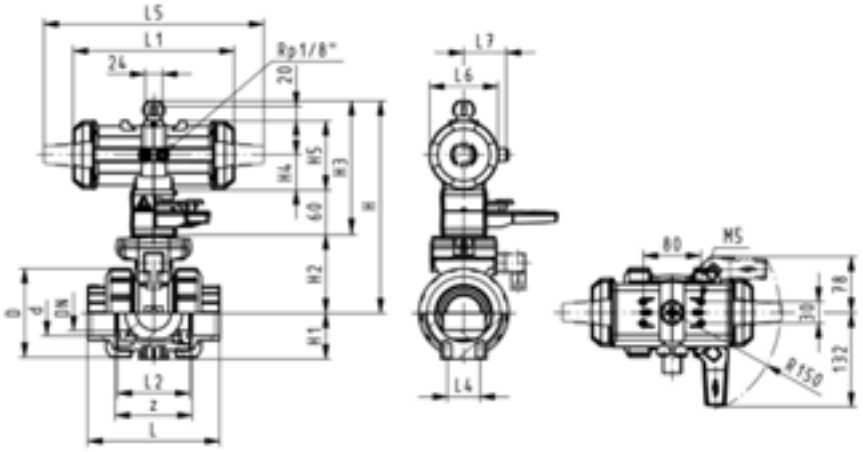
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 792** | **199 230 812** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 793** | **199 230 813** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 794** | **199 230 814** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 795** | **199 230 815** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 796** | **199 230 816** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 797** | **199 230 817** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 798** | **199 230 818** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## Without manual override
## With solvent cement sockets metric

**Model:**

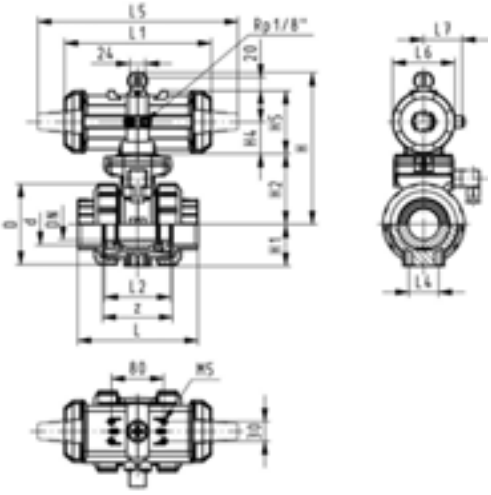
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 562** | **199 230 572** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 563** | **199 230 573** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 564** | **199 230 574** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 565** | **199 230 575** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 566** | **199 230 576** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 567** | **199 230 577** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 568** | **199 230 578** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## Without manual override
## With solvent cement spigots metric

**Model:**

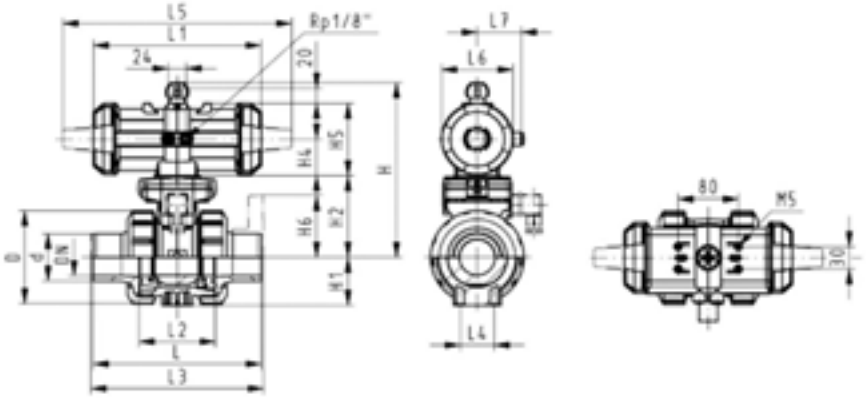
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 582** | **199 230 592** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 583** | **199 230 593** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 584** | **199 230 594** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 585** | **199 230 595** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 586** | **199 230 596** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 587** | **199 230 597** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 588** | **199 230 598** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C FO (Fail safe to open)
## Without manual override
## With threaded sockets Rp

**Model:**

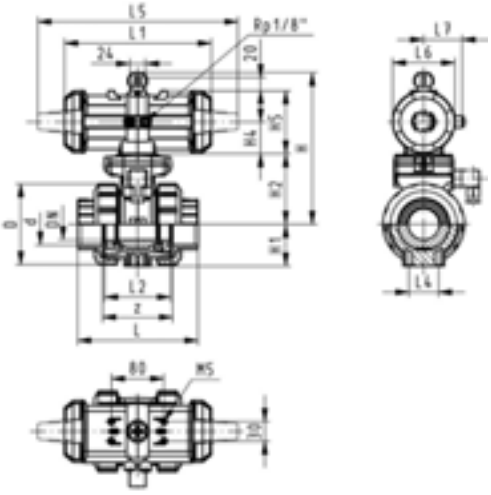
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 912** | **199 230 932** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 913** | **199 230 933** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 914** | **199 230 934** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 915** | **199 230 935** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 916** | **199 230 936** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 917** | **199 230 937** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 918** | **199 230 938** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## With manual override
## With solvent cement sockets metric

**Model:**

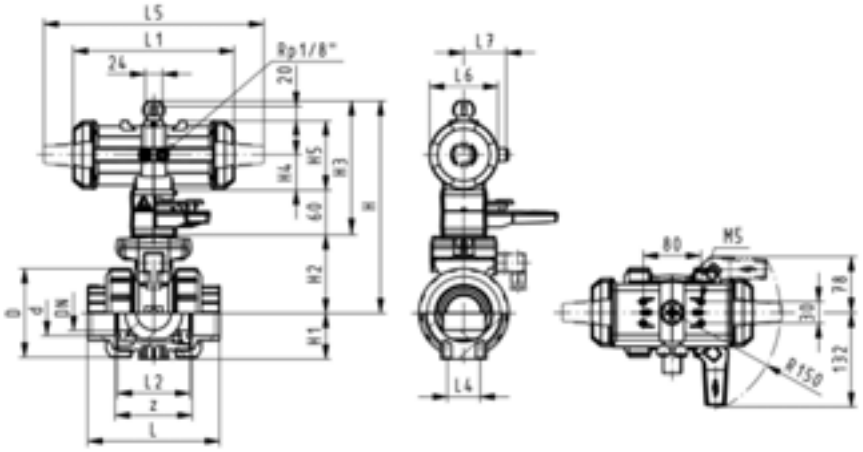
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 482** | **199 230 492** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 483** | **199 230 493** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 484** | **199 230 494** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 485** | **199 230 495** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 486** | **199 230 496** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 487** | **199 230 497** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 488** | **199 230 498** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## With manual override
## With solvent cement spigots metric

**Model:**

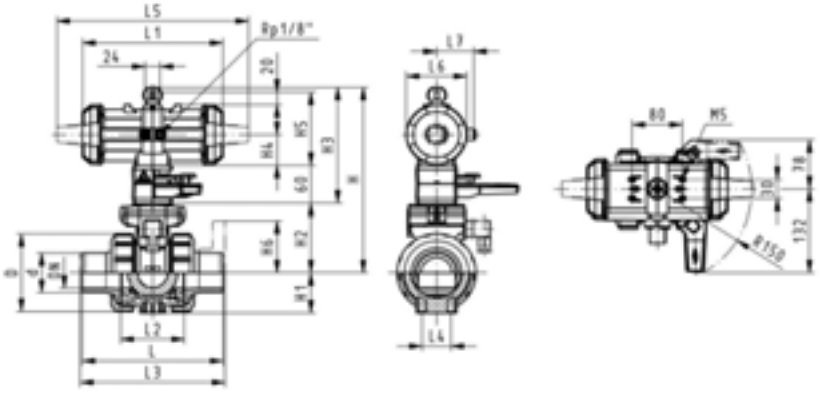
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 502** | **199 230 512** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 503** | **199 230 513** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 504** | **199 230 514** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 505** | **199 230 515** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 506** | **199 230 516** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 507** | **199 230 517** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 508** | **199 230 518** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## With manual override
## With threaded sockets Rp

**Model:**

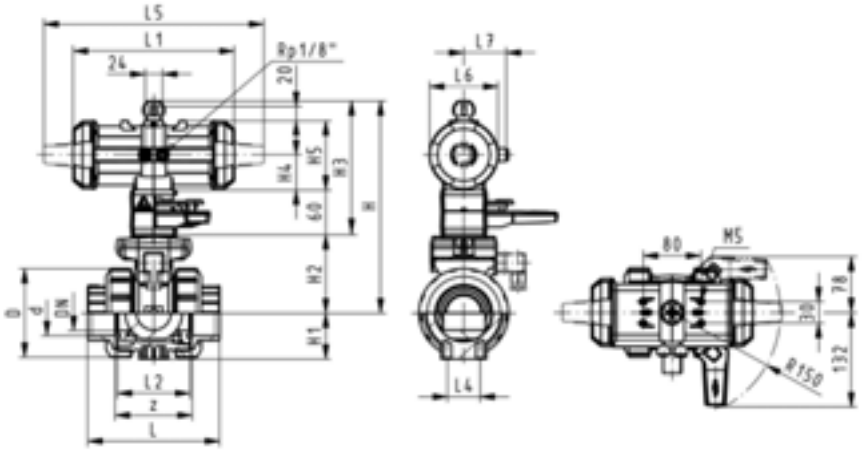
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 832** | **199 230 852** | 1.500 |
| ½ | 15 | 10 | 185 | **199 230 833** | **199 230 853** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 230 834** | **199 230 854** | 1.600 |
| 1 | 25 | 10 | 700 | **199 230 835** | **199 230 855** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 836** | **199 230 856** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 230 837** | **199 230 857** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 230 838** | **199 230 858** | 4.000 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## Without manual override
## With solvent cement sockets metric

**Model:**

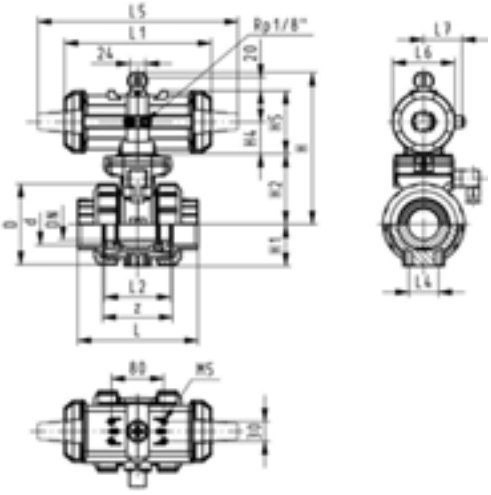
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 602** | **199 230 612** | 1.159 |
| 20 | 15 | 10 | 185 | **199 230 603** | **199 230 613** | 1.159 |
| 25 | 20 | 10 | 350 | **199 230 604** | **199 230 614** | 1.276 |
| 32 | 25 | 10 | 700 | **199 230 605** | **199 230 615** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 230 606** | **199 230 616** | 2.451 |
| 50 | 40 | 10 | 1600 | **199 230 607** | **199 230 617** | 2.773 |
| 63 | 50 | 10 | 3100 | **199 230 608** | **199 230 618** | 3.631 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## Without manual override
## With solvent cement spigots metric

**Model:**

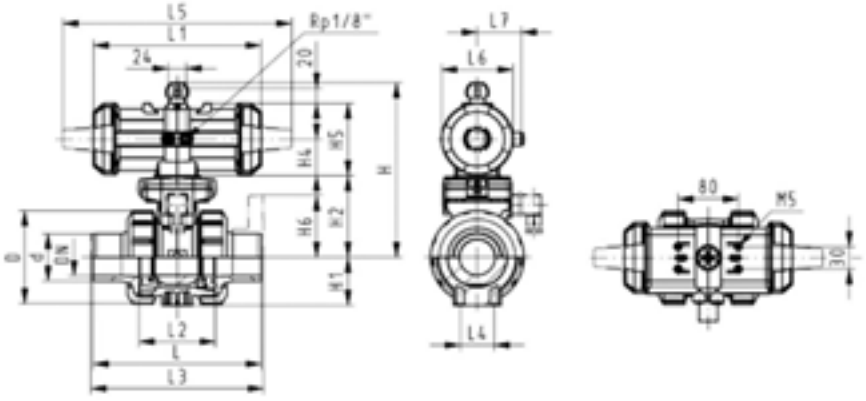
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 622** | **199 230 632** | 1.159 | |
| 20 | 15 | 10 | 185 | **199 230 623** | **199 230 633** | 1.159 | |
| 25 | 20 | 10 | 350 | **199 230 624** | **199 230 634** | 1.276 | |
| 32 | 25 | 10 | 700 | **199 230 625** | **199 230 635** | 1.400 | |
| 40 | 32 | 10 | 1000 | **199 230 626** | **199 230 636** | 2.451 | |
| 50 | 40 | 10 | 1600 | **199 230 627** | **199 230 637** | 2.773 | |
| 63 | 50 | 10 | 3100 | **199 230 628** | **199 230 638** | 3.631 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PVC-C metric

## Ball valve type 230 PVC-C DA (Double acting)
## Without manual override
## With threaded sockets Rp

**Model:**

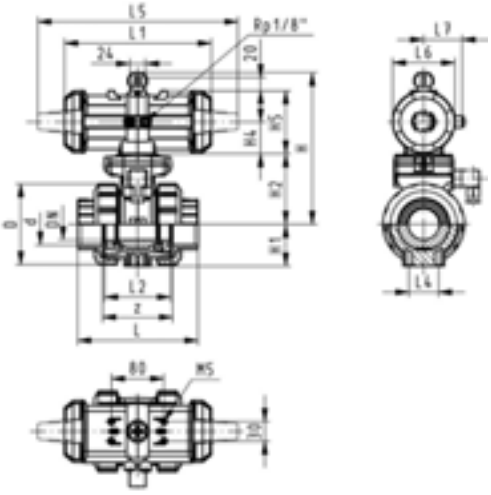
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 942** | **199 230 952** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 943** | **199 230 953** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 944** | **199 230 954** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 945** | **199 230 955** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 946** | **199 230 956** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 947** | **199 230 957** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 948** | **199 230 958** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# PVC-C metric

## Ball valve type 208 PVC-C FC (Fail safe to close)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

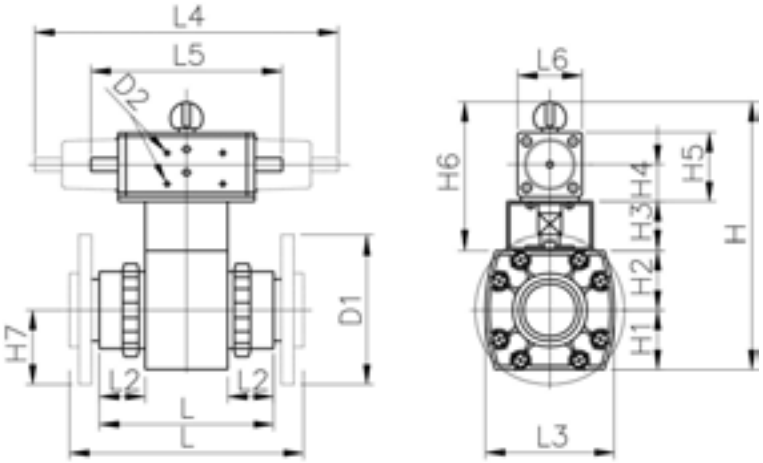
- For easy installation and removal
- Control time 90°<) 0,5-2 s

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 240** | **199 208 243** | 8.600 | |
| 90 | 80 | 10 | 7000 | **199 208 241** | **199 208 244** | 12.700 | |
| 110 | 100 | 10 | 11000 | **199 208 242** | **199 208 245** | 16.800 | |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | |



# PVC-C metric

## Ball valve type 208 PVC-C FO (Fail safe to open)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

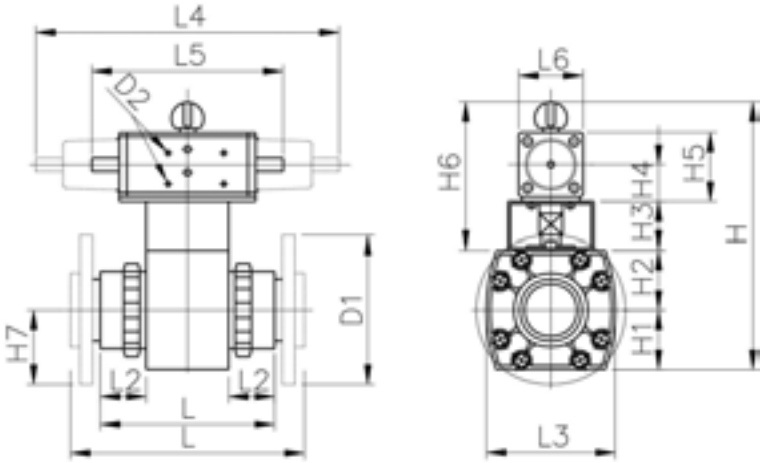
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 250** | **199 208 253** | 8.600 |
| 90 | 80 | 10 | 7000 | **199 208 251** | **199 208 254** | 13.650 |
| 110 | 100 | 10 | 11000 | **199 208 252** | **199 208 255** | 18.260 |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 |



# PVC-C metric

## Ball valve type 208 PVC-C DA (Double acting)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

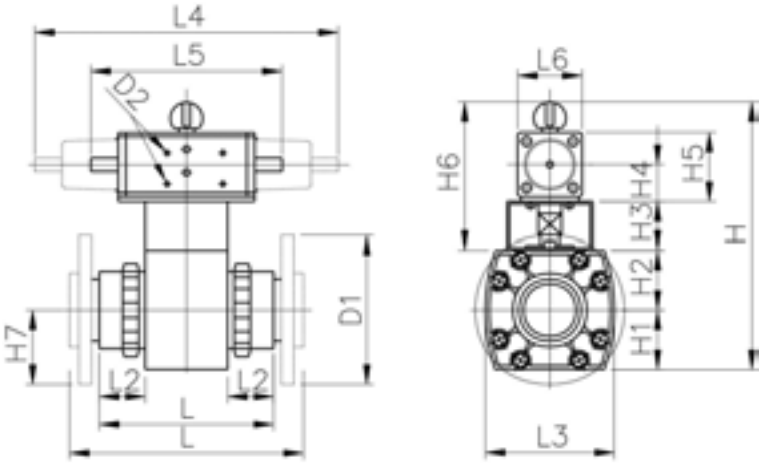
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 260** | **199 208 263** | 8.000 | |
| 90 | 80 | 10 | 7000 | **199 208 261** | **199 208 264** | 13.650 | |
| 110 | 100 | 10 | 11000 | **199 208 262** | **199 208 265** | 12.100 | |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | |
| 90 | ⅛ | 267 | 82 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | |
| 110 | ⅛ | 318 | 95 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | |



# PVC-C metric

## 3-Way ball valve type 275 PVC-C
## Horizontal/L-port
## Without manual override
## With solvent cement sockets metric

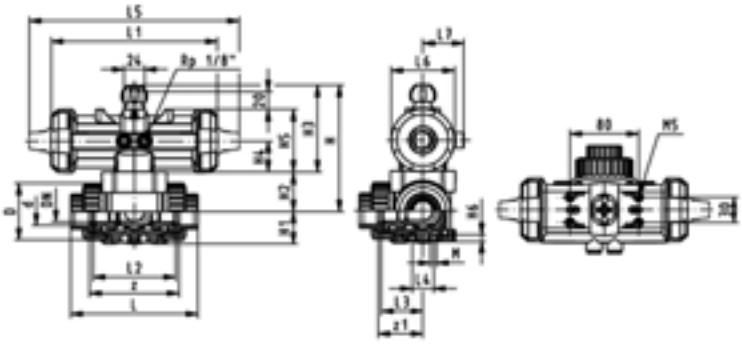
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 102** | **199 275 112** | 1.131 |
| 20 | 15 | 10 | 75 | **199 275 103** | **199 275 113** | 1.131 |
| 25 | 20 | 10 | 150 | **199 275 104** | **199 275 114** | 1.264 |
| 32 | 25 | 10 | 280 | **199 275 105** | **199 275 115** | 1.511 |
| 40 | 32 | 10 | 480 | **199 275 106** | **199 275 116** | 2.484 |
| 50 | 40 | 10 | 620 | **199 275 107** | **199 275 117** | 3.146 |
| 63 | 50 | 10 | 1230 | **199 275 108** | **199 275 118** | 4.625 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 275 PVC-C
## Horizontal/L-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

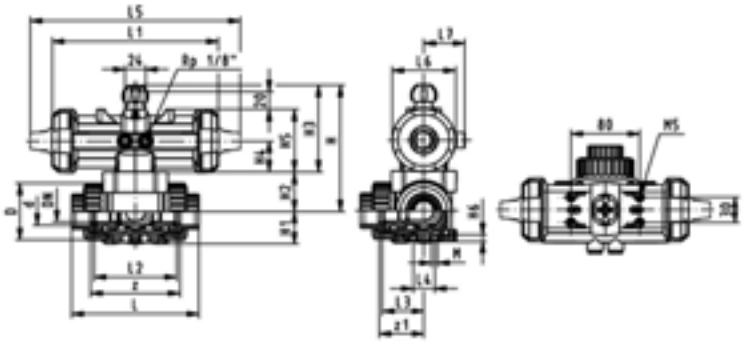
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 282** | **199 275 292** | 0.941 |
| 20 | 15 | 10 | 75 | **199 275 283** | **199 275 293** | 0.941 |
| 25 | 20 | 10 | 150 | **199 275 284** | **199 275 294** | 1.074 |
| 32 | 25 | 10 | 280 | **199 275 285** | **199 275 295** | 1.321 |
| 40 | 32 | 10 | 480 | **199 275 286** | **199 275 296** | 1.987 |
| 50 | 40 | 10 | 620 | **199 275 287** | **199 275 297** | 2.722 |
| 63 | 50 | 10 | 1230 | **199 275 288** | **199 275 298** | 4.201 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 275 PVC-C
## Horizontal/T-port
## Without manual override
## With solvent cement sockets metric

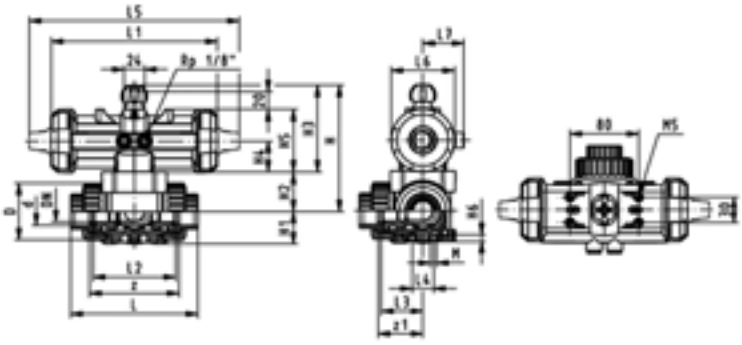
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 142** | **199 275 152** | 1.131 |
| 20 | 15 | 10 | 200 | **199 275 143** | **199 275 153** | 1.131 |
| 25 | 20 | 10 | 470 | **199 275 144** | **199 275 154** | 1.264 |
| 32 | 25 | 10 | 793 | **199 275 145** | **199 275 155** | 1.511 |
| 40 | 32 | 10 | 1290 | **199 275 146** | **199 275 156** | 2.411 |
| 50 | 40 | 10 | 1910 | **199 275 147** | **199 275 157** | 3.146 |
| 63 | 50 | 10 | 3100 | **199 275 148** | **199 275 158** | 4.625 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-C metric

## 3-Way ball valve type 275 PVC-C
## Horizontal/T-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

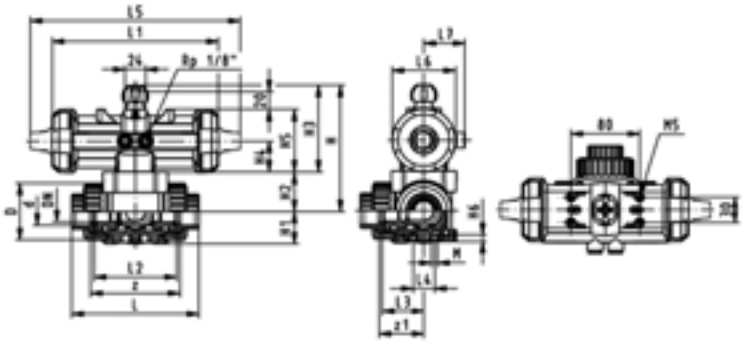
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°⩽) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 322** | **199 275 332** | 0.941 |
| 20 | 15 | 10 | 200 | **199 275 323** | **199 275 333** | 0.941 |
| 25 | 20 | 10 | 470 | **199 275 324** | **199 275 334** | 1.074 |
| 32 | 25 | 10 | 793 | **199 275 325** | **199 275 335** | 1.321 |
| 40 | 32 | 10 | 1290 | **199 275 326** | **199 275 336** | 1.987 |
| 50 | 40 | 10 | 1910 | **199 275 327** | **199 275 337** | 2.722 |
| 63 | 50 | 10 | 3100 | **199 275 328** | **199 275 338** | 4.201 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 43 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# PVC-C metric

# Diaphragm valves pneumatic

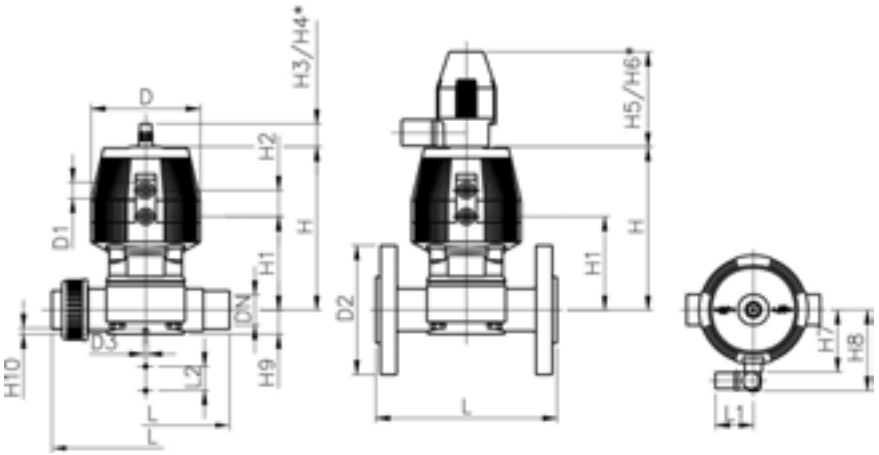
## Diaphragm valve type DIASTAR PVC-C
## Series 025 FC (Fail safe to close)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 631** | **199 025 661** | 0.810 |
| 25 | 20 | 10 | 120 | **199 025 632** | **199 025 662** | 0.891 |
| 32 | 25 | 10 | 238 | **199 025 633** | **199 025 663** | 1.632 |
| 40 | 32 | 10 | 341 | **199 025 634** | **199 025 664** | 2.766 |
| 50 | 40 | 10 | 460 | **199 025 635** | **199 025 665** | 4.456 |
| 63 | 50 | 10 | 685 | **199 025 636** | **199 025 666** | 5.031 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 FC (Fail safe to close)
## With fixed flanges PVC-C metric

**Model:**

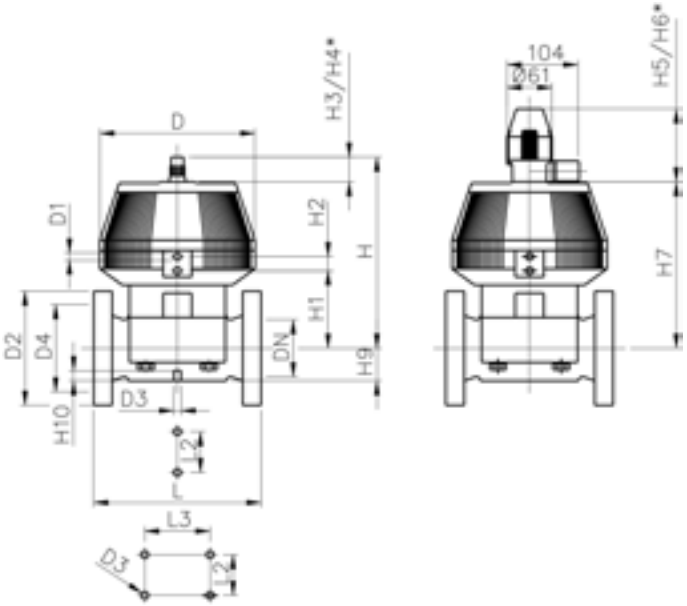
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

** with fixed flanges PVC-C metric and Inch ANSI
* with backing flanges PP-V

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 697** | **199 025 727** | 13.600 | |
| **90 | 80 | 3 | 10 | 1700 | **199 025 698** | **199 025 728** | 13.600 | |
| 110 | 100 | 4 | 8 | 2700 | **199 025 699** | **199 025 729** | 24.700 | |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 FC (Fail safe to close)
## With backing flanges PP-V metric

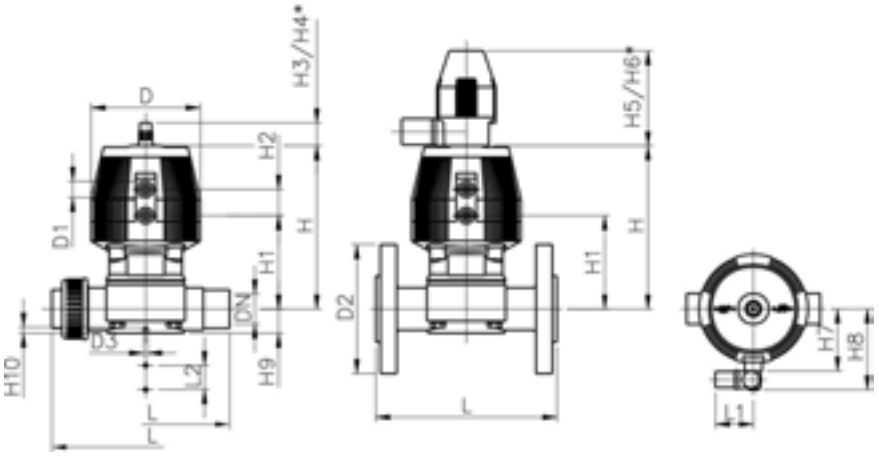
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 691** | **199 025 721** | 0.810 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 692** | **199 025 722** | 0.891 |
| 32 | 25 | 1 | 10 | 238 | **199 025 693** | **199 025 723** | 1.632 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 694** | **199 025 724** | 2.766 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 695** | **199 025 725** | 4.456 |
| 63 | 50 | 2 | 10 | 685 | **199 025 696** | **199 025 726** | 5.031 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 95 | 6 | 130 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 120 | ⅛ | 115 | 6 | 160 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 |
| 40 | 150 | ¼ | 140 | 8 | 180 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 |
| 50 | 180 | ¼ | 150 | 8 | 200 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 |
| 63 | 180 | ¼ | 165 | 8 | 230 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 56 | 86 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 68 | 100 | 21 | 12 | 12 |
| 40 | 85 | 117 | 26 | 15 | 14 |
| 50 | 101 | 133 | 33 | 15 | 18 |
| 63 | 101 | 133 | 39 | 15 | 22 |



# PVC-C metric

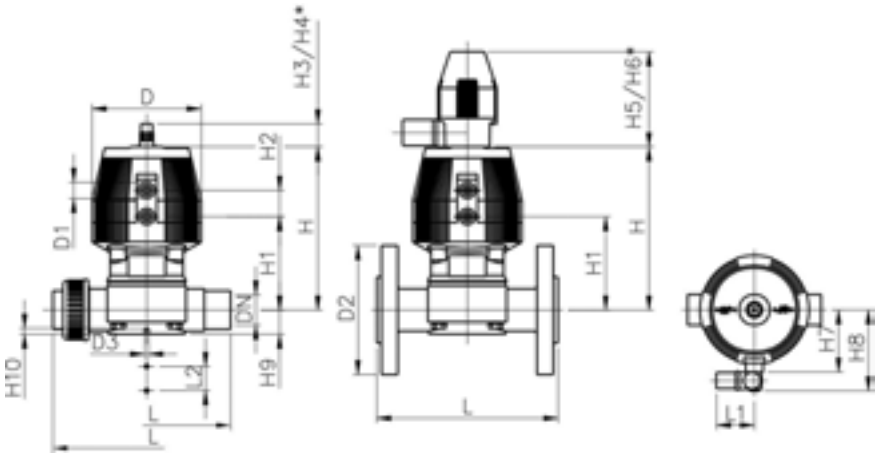
## Diaphragm valve type DIASTAR PVC-C
## Series 025 FO (Fail safe to open)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 641** | **199 025 671** | 0.404 |
| 25 | 20 | 10 | 120 | **199 025 642** | **199 025 672** | 0.690 |
| 32 | 25 | 10 | 238 | **199 025 643** | **199 025 673** | 0.980 |
| 40 | 32 | 10 | 341 | **199 025 644** | **199 025 674** | 1.230 |
| 50 | 40 | 10 | 460 | **199 025 645** | **199 025 675** | 2.210 |
| 63 | 50 | 10 | 685 | **199 025 646** | **199 025 676** | 3.800 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 FO (Fail safe to open)
## With backing flanges PP-V metric

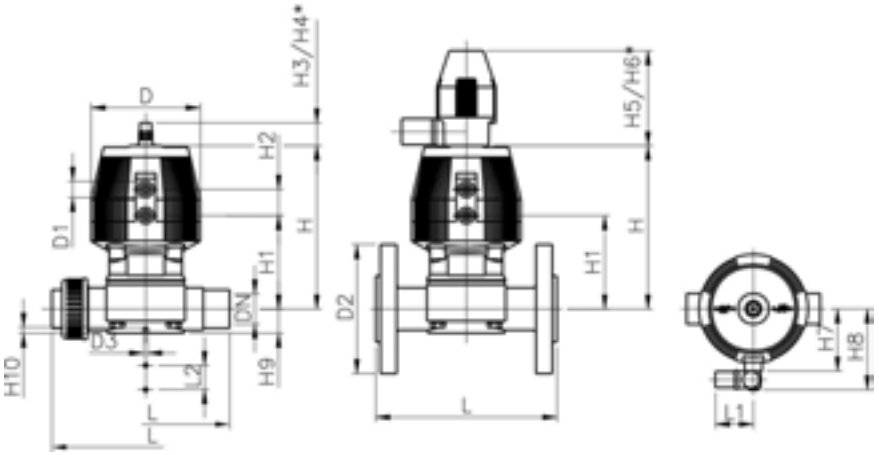
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 701** | **199 025 731** | 0.624 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 702** | **199 025 732** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 703** | **199 025 733** | 1.260 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 704** | **199 025 734** | 1.750 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 705** | **199 025 735** | 2.210 |
| 63 | 50 | 2 | 10 | 685 | **199 025 706** | **199 025 736** | 3.800 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 FO (Fail safe to open)
## With fixed flanges PVC-C metric

**Model:**

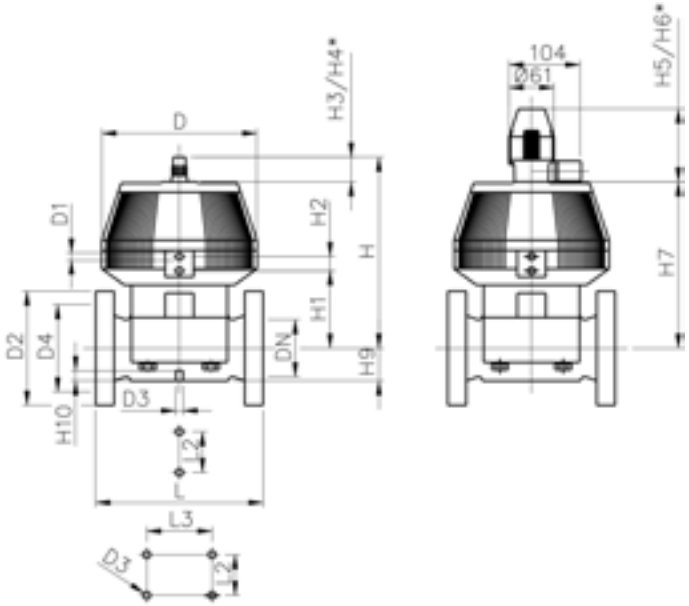
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

** with fixed flanges PVC-C metric and Inch ANSI
* with backing flanges PP-V

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 707** | **199 025 737** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 708** | **199 025 738** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 709** | **199 025 739** | 24.700 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 8 | 185 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 12 | 200 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 12 | 225 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# PVC-C metric

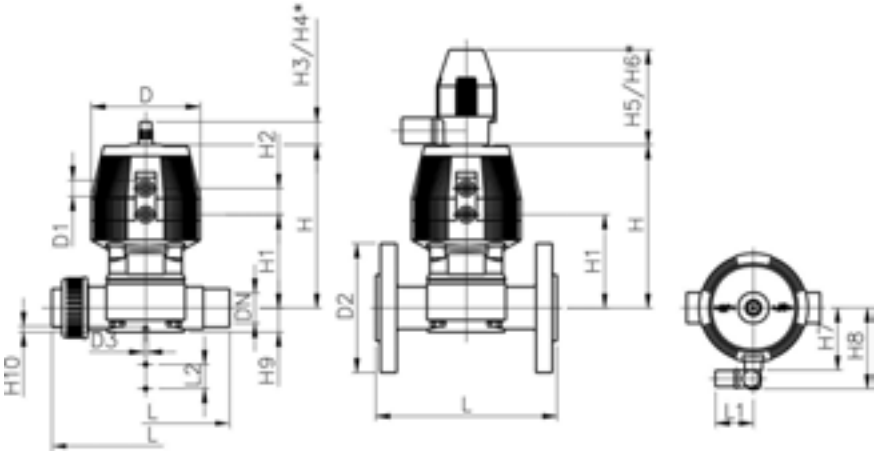
## Diaphragm valve type DIASTAR PVC-C
## Series 025 DA (Double acting)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 651** | **199 025 681** | 0.404 |
| 25 | 20 | 10 | 120 | **199 025 652** | **199 025 682** | 0.690 |
| 32 | 25 | 10 | 238 | **199 025 653** | **199 025 683** | 0.980 |
| 40 | 32 | 10 | 341 | **199 025 654** | **199 025 684** | 1.230 |
| 50 | 40 | 10 | 460 | **199 025 655** | **199 025 685** | 2.935 |
| 63 | 50 | 10 | 685 | **199 025 656** | **199 025 686** | 4.360 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 DA (Double acting)
## With backing flanges PP-V metric

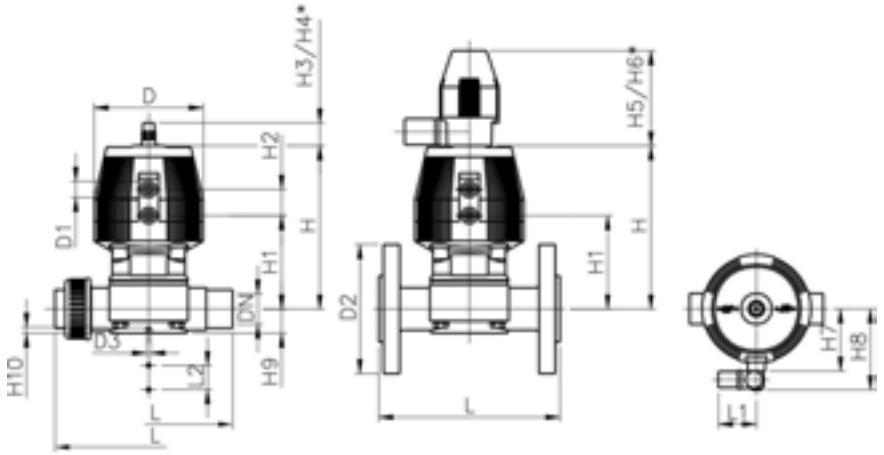
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 711** | **199 025 741** | 0.624 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 712** | **199 025 742** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 713** | **199 025 743** | 1.260 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 714** | **199 025 744** | 1.750 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 715** | **199 025 745** | 2.210 |
| 63 | 50 | 2 | 10 | 685 | **199 025 716** | **199 025 746** | 3.760 |

| d [mm] | D [mm] | D1 [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | M6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 105 | M6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 115 | M6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 140 | M8 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 150 | M8 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 165 | M8 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 025 DA (Double acting)
## With fixed flanges PVC-C metric

**Model:**

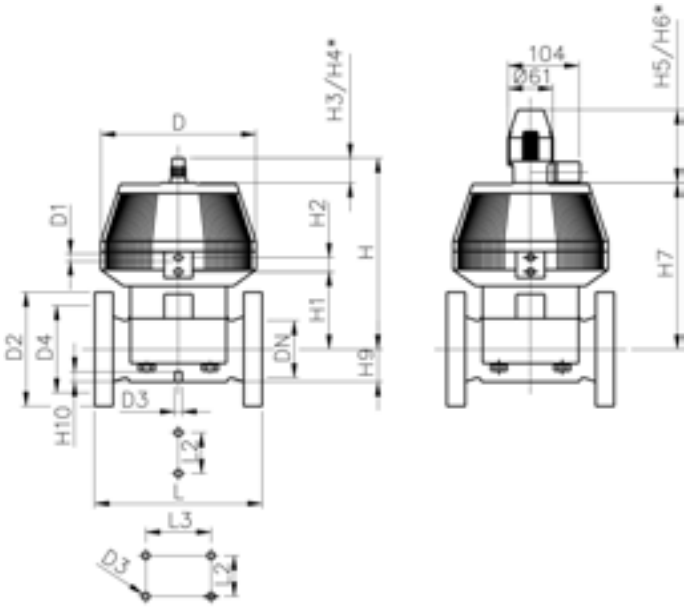
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PP-V
** with fixed flanges PVC-C metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 717** | **199 025 747** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 718** | **199 025 748** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 719** | **199 025 749** | |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 028 FC (Fail safe to close)
## With solvent cement spigots metric

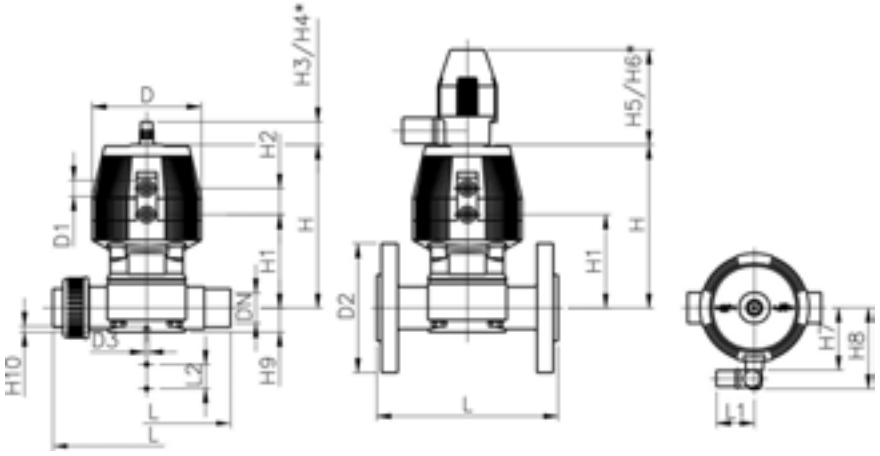
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 631** | **199 028 661** | 0.470 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 632** | **199 028 662** | 0.900 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 633** | **199 028 663** | 1.190 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 634** | **199 028 664** | 1.650 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 635** | **199 028 665** | 3.050 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 636** | **199 028 666** | 5.200 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PVC-C metric

## Diaphragm valve type DIASTAR PVC-C
## Series 028 FC (Fail safe to close)
## With backing flanges PP-V metric

**Model:**

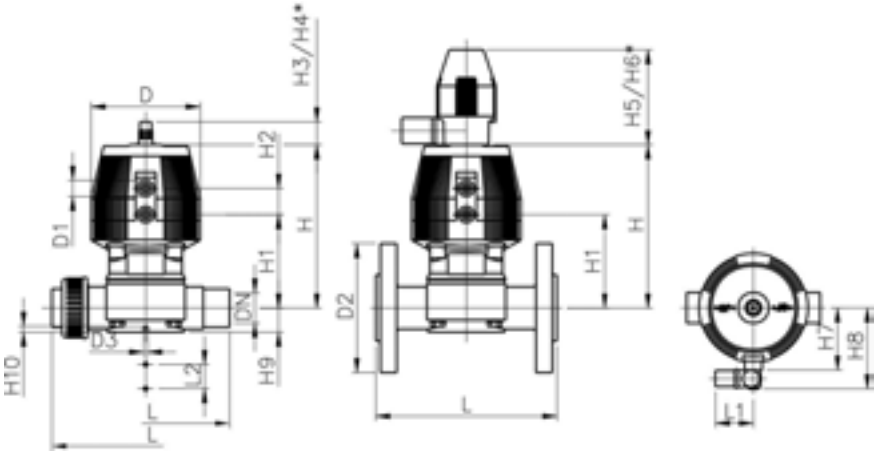
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

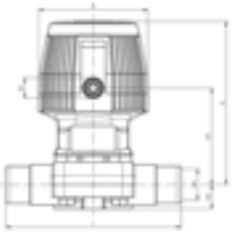
| d [mm] | DN [mm] | Inch | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 / 5 | * | 72 | **199 028 691** | **199 028 721** | 0.690 |
| 25 | 20 | ¾ | 10 / 7 | * | 120 | **199 028 692** | **199 028 722** | 1.100 |
| 32 | 25 | 1 | 10 / 7 | * | 238 | **199 028 693** | **199 028 723** | 1.470 |
| 40 | 32 | 1 ¼ | 10 / 7 | * | 341 | **199 028 694** | **199 028 724** | 2.170 |
| 50 | 40 | 1 ½ | 10 / 7 | * | 460 | **199 028 695** | **199 028 725** | 3.050 |
| 63 | 50 | 2 | 10 / 7 | * | 685 | **199 028 696** | **199 028 726** | 4.600 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PVC-C metric



## Diaphragm valve type DIASTAR Eco PVC-C FC (Fail safe to close) With solvent cement spigots metric

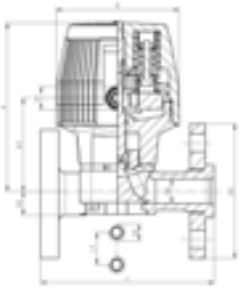
New

**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 121** | 0.516 |
| 25 | 20 | 6 | 120 | **199 024 122** | 1.043 |
| 32 | 25 | 6 | 238 | **199 024 123** | 1.308 |
| 40 | 32 | 6 | 341 | **199 024 124** | 1.936 |
| 50 | 40 | 6 | 460 | **199 024 125** | 2.517 |
| 63 | 50 | 6 | 685 | **199 024 126** | 3.011 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |



## Diaphragm valve type DIASTAR Eco PVC-C FC (Fail safe to close) With backing flanges PP-V metric

New

**Model:**

- Working pressure 6 bar one side
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 6 | 72 | **199 024 151** | 0.568 |
| 25 | 20 | ¾ | 6 | 120 | **199 024 152** | 1.155 |
| 32 | 25 | 1 | 6 | 238 | **199 024 153** | 1.451 |
| 40 | 32 | 1 ¼ | 6 | 341 | **199 024 154** | 2.185 |
| 50 | 40 | 1 ½ | 6 | 460 | **199 024 155** | 3.173 |
| 63 | 50 | 2 | 6 | 685 | **199 024 156** | 4.028 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 95 | 130 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 105 | 150 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 115 | 160 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 140 | 180 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 150 | 200 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 165 | 230 | 45 | 199 | 126 | 39 | 68 | 16 |

# PVC-C metric

# Butterfly valves electric

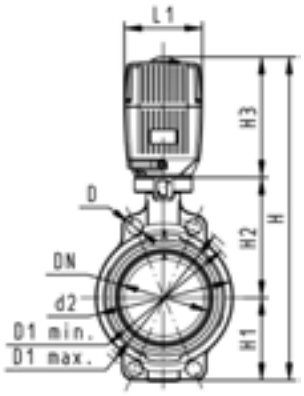
## Butterfly valve type 140 PVC-C 100-230V Without manual override

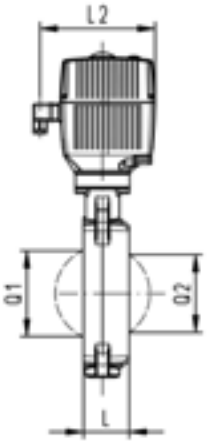
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 202** | **199 140 222** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 203** | **199 140 223** | 4.312 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 204** | **199 140 224** | 4.491 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 205** | **199 140 225** | 5.133 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 206** | **199 140 226** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 207** | **199 140 227** | 6.724 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 208** | **199 140 228** | 12.994 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| *140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

# PVC-C metric

## Butterfly valve type 140 PVC-C 100-230V With manual override

New

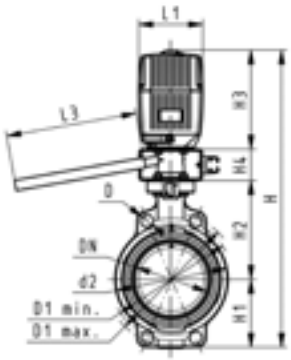
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

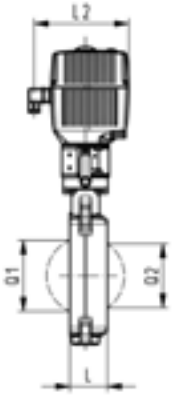
**Note:**

- * Available on request

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 162** | **199 140 182** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 163** | **199 140 183** | 5.812 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 164** | **199 140 184** | 5.991 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 165** | **199 140 185** | 6.633 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 166** | **199 140 186** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 167** | **199 140 187** | 8.224 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 168** | **199 140 188** | 14.494 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 |




| d [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 180 | 250 | 40 | |
| 75 | 180 | 250 | 54 | 35 |
| 90 | 180 | 250 | 67 | 50 |
| 110 | 180 | 250 | 88 | 74 |
| *140 | 180 | 250 | 113 | 97 |
| 160 | 180 | 250 | 139 | 123 |
| 225 | 180 | 250 | 178 | 169 |

# PVC-C metric

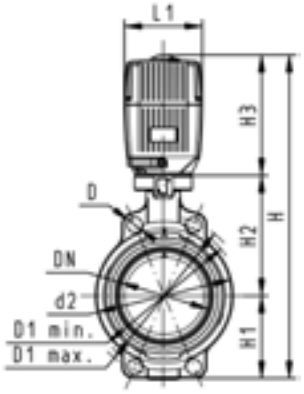
## Butterfly valve type 140 PVC-C 24V Without manual override

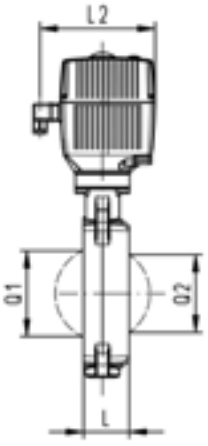
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 282** | **199 140 302** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 283** | **199 140 303** | 4.312 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 284** | **199 140 304** | 4.491 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 285** | **199 140 305** | 5.133 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 286** | **199 140 306** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 287** | **199 140 307** | 6.724 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 288** | **199 140 308** | 12.994 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| *140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

# PVC-C metric

## Butterfly valve type 140 PVC-C 24V
## With manual override

New

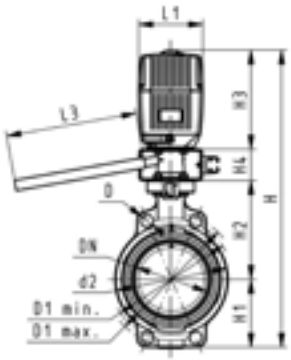
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

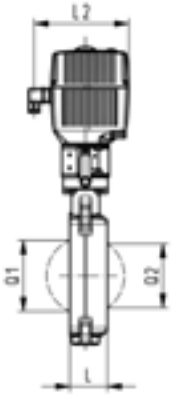
**Note:**

- * Available on request

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 242** | **199 140 262** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 243** | **199 140 263** | 5.812 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 244** | **199 140 264** | 5.991 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 245** | **199 140 265** | 6.633 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 246** | **199 140 266** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 247** | **199 140 267** | 8.224 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 248** | **199 140 268** | 14.494 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 |




| d [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 180 | 250 | 40 | |
| 75 | 180 | 250 | 54 | 35 |
| 90 | 180 | 250 | 67 | 50 |
| 110 | 180 | 250 | 88 | 74 |
| *140 | 180 | 250 | 113 | 97 |
| 160 | 180 | 250 | 139 | 123 |
| 225 | 180 | 250 | 178 | 169 |

# PVC-C metric

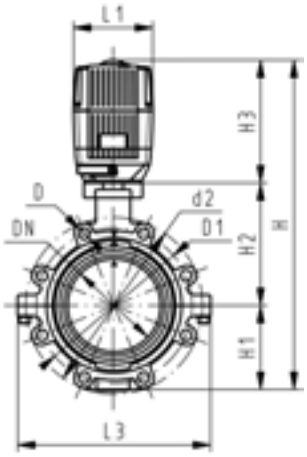
## Butterfly valve type 141 PVC-C 100-230V Without manual override

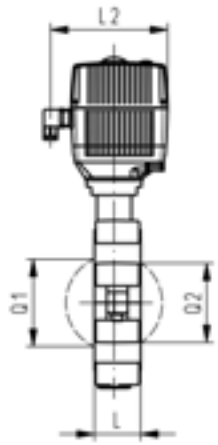
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 202** | **199 141 222** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 203** | **199 141 223** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 204** | **199 141 224** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 205** | **199 141 225** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 206** | **199 141 226** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 207** | **199 141 227** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 208** | **199 141 228** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| *140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| *63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| *140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PVC-C metric

## Butterfly valve type 141 PVC-C 100-230V With manual override

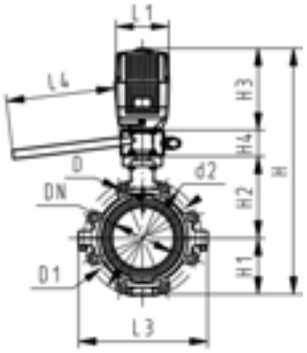
New

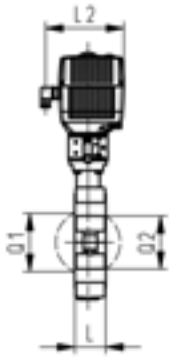
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 162** | **199 141 182** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 163** | **199 141 183** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 164** | **199 141 184** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 165** | **199 141 185** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 166** | **199 141 186** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 167** | **199 141 187** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 168** | **199 141 188** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| *140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| d [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 200 | 40 | |
| 75 | 200 | 54 | 35 |
| 90 | 200 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| *140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

# PVC-C metric

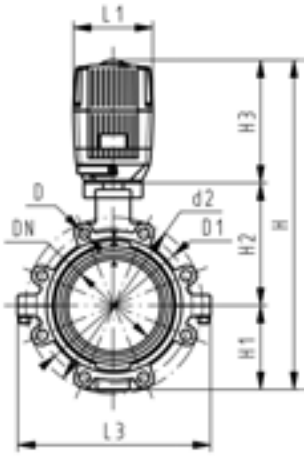
## Butterfly valve type 141 PVC-C 24V Without manual override

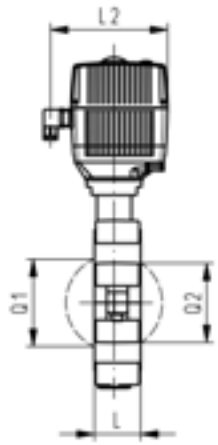
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 282** | **199 141 302** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 283** | **199 141 303** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 284** | **199 141 304** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 285** | **199 141 305** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 286** | **199 141 306** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 287** | **199 141 307** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 288** | **199 141 308** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| *140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| *63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| *140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PVC-C metric

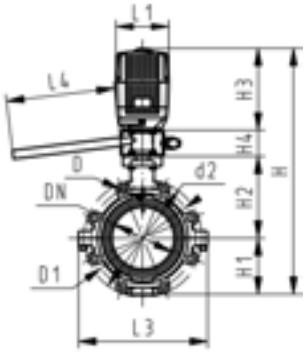
## Butterfly valve type 141 PVC-C 24V
## With manual override

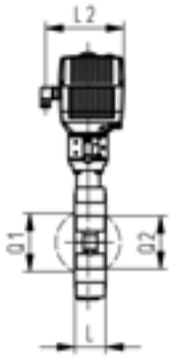
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 242** | **199 141 262** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 243** | **199 141 263** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 244** | **199 141 264** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 245** | **199 141 265** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 246** | **199 141 266** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 247** | **199 141 267** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 248** | **199 141 268** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| *140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| d [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 200 | 40 | |
| 75 | 200 | 54 | 35 |
| 90 | 200 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| *140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

# PVC-C metric

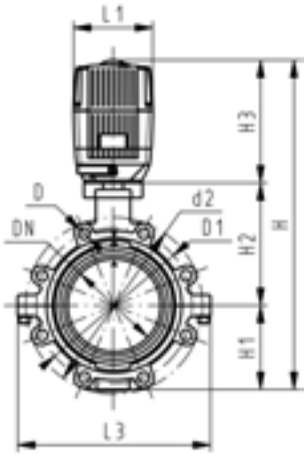
## Butterfly valve type 142 PVC-C 100-230V Without manual override

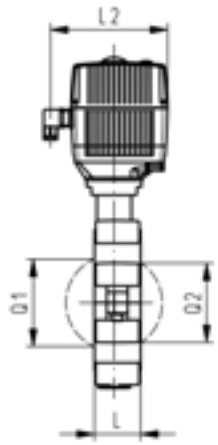
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 202** | **199 142 222** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 203** | **199 142 223** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 204** | **199 142 224** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 205** | **199 142 225** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 206** | **199 142 226** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 207** | **199 142 227** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 208** | **199 142 228** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 |

| Inch | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *2 | 40 | |
| 2 ½ | 54 | 35 |
| 3 | 67 | 50 |
| 4 | 88 | 74 |
| *5 | 113 | 97 |
| 6 | 139 | 123 |
| 8 | 178 | 169 |

# PVC-C metric

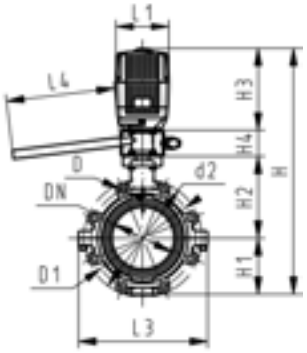
## Butterfly valve type 142 PVC-C 100-230V With manual override

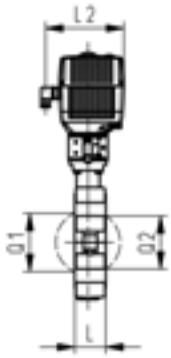
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 162** | **199 142 182** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 163** | **199 142 183** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 164** | **199 142 184** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 165** | **199 142 185** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 166** | **199 142 186** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 167** | **199 142 187** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 168** | **199 142 188** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

| Inch | L3 [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 150 | 200 | 40 | |
| 2 ½ | 160 | 200 | 54 | 35 |
| 3 | 175 | 200 | 67 | 50 |
| 4 | 244 | 250 | 88 | 74 |
| *5 | 272 | 250 | 113 | 97 |
| 6 | 297 | 250 | 139 | 123 |
| 8 | 360 | 250 | 178 | 169 |

# PVC-C metric

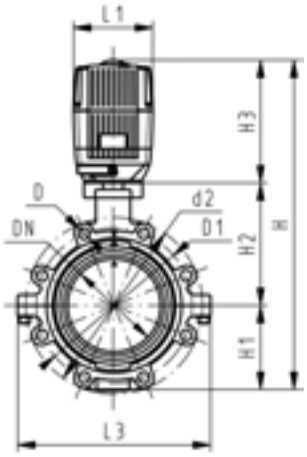
## Butterfly valve type 142 PVC-C 24V Without manual override

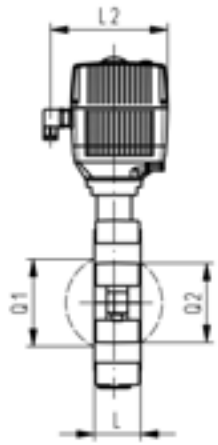
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 282** | **199 142 302** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 283** | **199 142 303** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 284** | **199 142 304** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 285** | **199 142 305** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 286** | **199 142 306** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 287** | **199 142 307** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 288** | **199 142 308** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 |

| Inch | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *2 | 40 | |
| 2 ½ | 54 | 35 |
| 3 | 67 | 50 |
| 4 | 88 | 74 |
| *5 | 113 | 97 |
| 6 | 139 | 123 |
| 8 | 178 | 169 |

# PVC-C metric

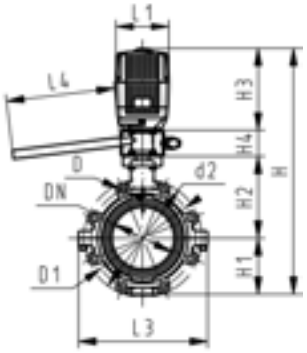
## Butterfly valve type 142 PVC-C 24V
## With manual override

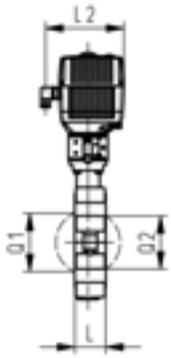
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 242** | **199 142 262** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 243** | **199 142 263** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 244** | **199 142 264** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 245** | **199 142 265** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 246** | **199 142 266** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 247** | **199 142 267** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 248** | **199 142 268** |

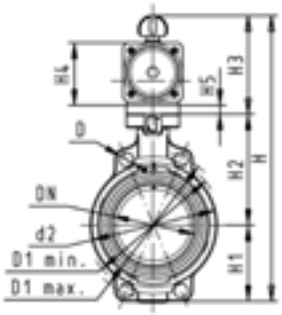
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

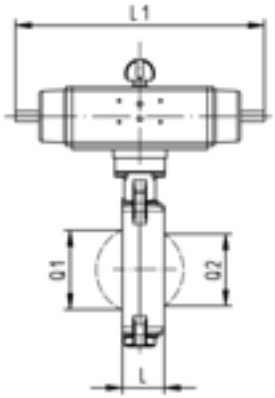
| Inch | L3 [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 150 | 200 | 40 | |
| 2 ½ | 160 | 200 | 54 | 35 |
| 3 | 175 | 200 | 67 | 50 |
| 4 | 244 | 250 | 88 | 74 |
| *5 | 272 | 250 | 113 | 97 |
| 6 | 297 | 250 | 139 | 123 |
| 8 | 360 | 250 | 178 | 169 |

# PVC-C metric

# Butterfly valves pneumatic

## Butterfly valve type 240 PVC-C
## FC (Fail safe to close)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 162** | **199 240 182** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 163** | **199 240 183** | 3.352 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 164** | **199 240 184** | 3.531 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 165** | **199 240 185** | 5.371 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 166** | **199 240 186** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 167** | **199 240 187** | 10.285 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 168** | **199 240 188** | 14.494 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FC | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 |
| 75 | PA-30 FC | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 |
| 90 | PA-35 FC | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 |
| 110 | PA-40 FC | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 |
| *140 | PA-45 FC | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 |
| 160 | PA-50 FC | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 |
| 225 | PA-55 FC | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 276 | 65 | 40 | |
| 75 | 276 | 65 | 54 | 35 |
| 90 | 326 | 72 | 67 | 50 |
| 110 | 370 | 80 | 88 | 74 |
| *140 | 411 | 90 | 113 | 97 |
| 160 | 423 | 100 | 139 | 123 |
| 225 | 452 | 112 | 178 | 169 |

# PVC-C metric

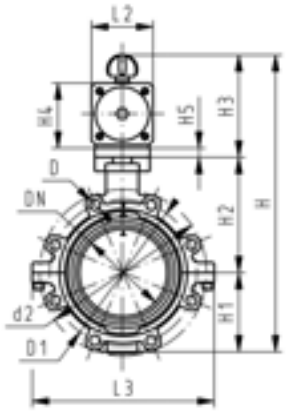
## Butterfly valve type 241 PVC-C
## FC (Fail safe to close)
## Without manual override

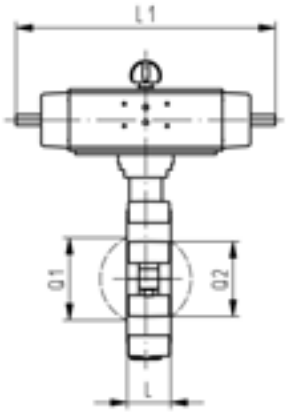
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 162** | **199 241 182** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 163** | **199 241 183** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 164** | **199 241 184** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 165** | **199 241 185** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 166** | **199 241 186** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 167** | **199 241 187** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 168** | **199 241 188** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FC | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 75 | PA-30 FC | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 90 | PA-35 FC | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 110 | PA-40 FC | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| *140 | PA-45 FC | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 160 | PA-50 FC | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 225 | PA-55 FC | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| 75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# PVC-C metric

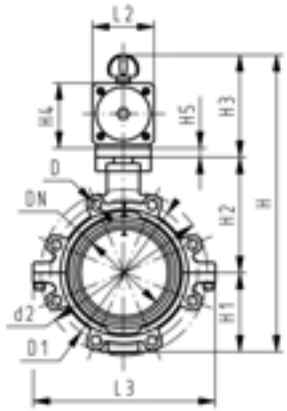
## Butterfly valve type 242 PVC-C
## FC (Fail safe to close)
## Without manual override

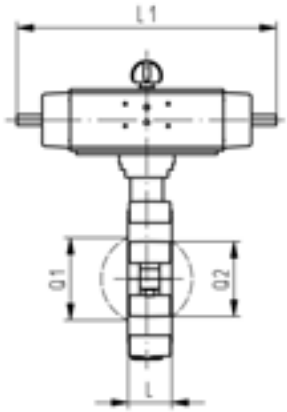
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 162** | **199 242 182** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 163** | **199 242 183** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 164** | **199 242 184** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 165** | **199 242 185** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 166** | **199 242 186** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 167** | **199 242 187** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 168** | **199 242 188** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-30 FC | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 2 ½ | PA-30 FC | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 3 | PA-35 FC | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 4 | PA-40 FC | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| *5 | PA-45 FC | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 6 | PA-50 FC | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 8 | PA-55 FC | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 65 | 150 | 40 | |
| 2 ½ | 65 | 160 | 54 | 35 |
| 3 | 72 | 175 | 67 | 50 |
| 4 | 80 | 244 | 88 | 74 |
| *5 | 90 | 272 | 113 | 97 |
| 6 | 100 | 297 | 139 | 123 |
| 8 | 112 | 360 | 178 | 169 |

# PVC-C metric

## Butterfly valve type 240 PVC-C
## FO (Fail safe to open)
## Without manual override

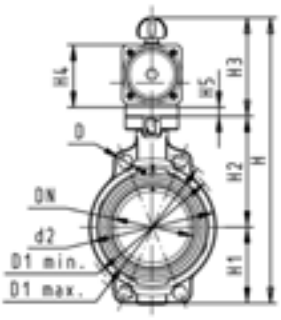
New

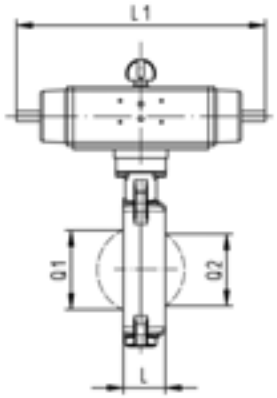
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 202** | **199 240 222** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 203** | **199 240 223** | 3.352 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 204** | **199 240 224** | 3.531 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 205** | **199 240 225** | 5.371 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 206** | **199 240 226** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 207** | **199 240 227** | 10.285 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 208** | **199 240 228** | 14.494 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FO | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 |
| 75 | PA-30 FO | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 |
| 90 | PA-35 FO | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 |
| 110 | PA-40 FO | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 |
| *140 | PA-45 FO | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 |
| 160 | PA-50 FO | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 |
| 225 | PA-55 FO | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 276 | 65 | 40 | |
| 75 | 276 | 65 | 54 | 35 |
| 90 | 326 | 72 | 67 | 50 |
| 110 | 370 | 80 | 88 | 74 |
| *140 | 411 | 90 | 113 | 97 |
| 160 | 423 | 100 | 139 | 123 |
| 225 | 452 | 112 | 178 | 169 |

# PVC-C metric

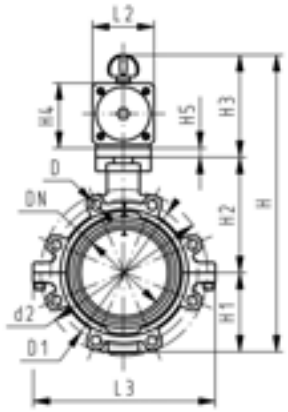
## Butterfly valve type 241 PVC-C
## FO (Fail safe to open)
## Without manual override

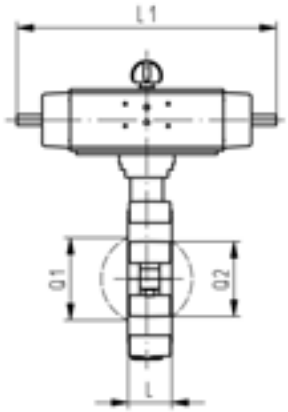
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 202** | **199 241 222** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 203** | **199 241 223** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 204** | **199 241 224** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 205** | **199 241 225** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 206** | **199 241 226** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 207** | **199 241 227** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 208** | **199 241 228** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FO | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 75 | PA-30 FO | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 90 | PA-35 FO | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 110 | PA-40 FO | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| *140 | PA-45 FO | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 160 | PA-50 FO | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 225 | PA-55 FO | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| 75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# PVC-C metric

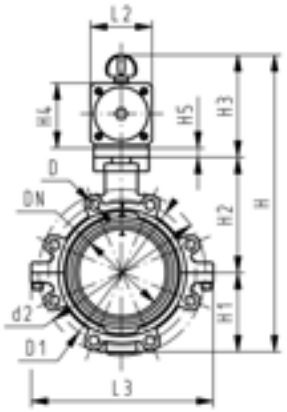
## Butterfly valve type 242 PVC-C
## FO (Fail safe to open)
## Without manual override

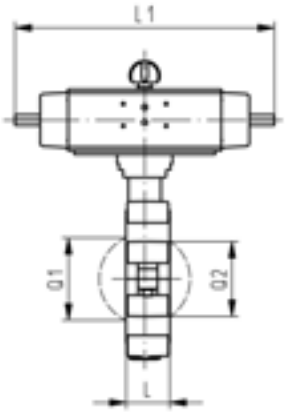
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 202** | **199 242 222** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 203** | **199 242 223** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 204** | **199 242 224** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 205** | **199 242 225** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 206** | **199 242 226** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 207** | **199 242 227** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 208** | **199 242 228** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-30 FO | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 2 ½ | PA-30 FO | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 3 | PA-35 FO | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 4 | PA-40 FO | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| *5 | PA-45 FO | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 6 | PA-50 FO | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 8 | PA-55 FO | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 65 | 150 | 40 | |
| 2 ½ | 65 | 160 | 54 | 35 |
| 3 | 72 | 175 | 67 | 50 |
| 4 | 80 | 244 | 88 | 74 |
| *5 | 90 | 272 | 113 | 97 |
| 6 | 100 | 297 | 139 | 123 |
| 8 | 112 | 360 | 178 | 169 |

# PVC-C metric

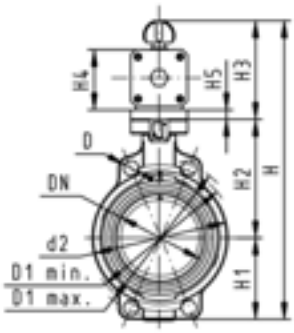
## Butterfly valve type 240 PVC-C
## DA (Double acting)
## Without manual override

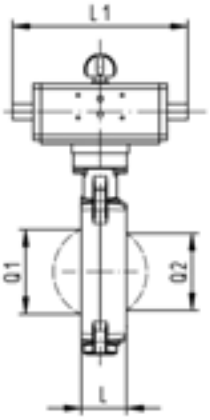
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 242** | **199 240 262** | |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 243** | **199 240 263** | 2.202 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 244** | **199 240 264** | 2.862 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 245** | **199 240 265** | 3.623 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 246** | **199 240 266** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 247** | **199 240 267** | 6.764 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 248** | **199 240 268** | 8.494 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-35 DA | 19 | 120.0 | 125.0 | 104 | 317 | 77 | 134 | 107 | 60 | 15 | 45 |
| 75 | PA-35 DA | 19 | 139.7 | 145.0 | 115 | 330 | 83 | 140 | 107 | 60 | 15 | 46 |
| 90 | PA-40 DA | 19 | 150.0 | 160.0 | 131 | 348 | 89 | 146 | 113 | 66 | 15 | 49 |
| 110 | PA-45 DA | 19 | 175.0 | 190.5 | 161 | 372 | 104 | 167 | 102 | 71 | | 56 |
| *140 | PA-45 DA | 23 | 210.0 | 215.9 | 187 | 408 | 117 | 181 | 111 | 78 | | 64 |
| 160 | PA-55 DA | 24 | 241.3 | 241.3 | 215 | 448 | 130 | 189 | 129 | 86 | | 72 |
| 225 | PA-55 DA | 23 | 290.0 | 295.0 | 267 | 507 | 158 | 210 | 139 | 96 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 177 | 55 | 40 | |
| 75 | 177 | 55 | 54 | 35 |
| 90 | 190 | 60 | 67 | 50 |
| 110 | 198 | 65 | 88 | 74 |
| *140 | 235 | 72 | 113 | 97 |
| 160 | 250 | 80 | 139 | 123 |
| 225 | 279 | 90 | 178 | 169 |

# PVC-C metric

## Butterfly valve type 241 PVC-C
## DA (Double acting)
## Without manual override

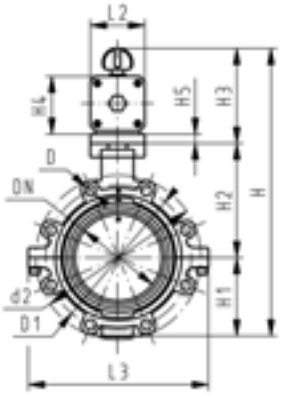
New

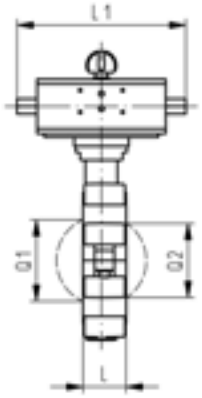
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 242** | **199 241 262** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 243** | **199 241 263** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 244** | **199 241 264** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 245** | **199 241 265** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 246** | **199 241 266** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 247** | **199 241 267** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 248** | **199 241 268** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-35 DA | M16 | 125 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 |
| 75 | PA-35 DA | M16 | 145 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 |
| 90 | PA-40 DA | M16 | 160 | 184 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 |
| 110 | PA-45 DA | M16 | 180 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 |
| *140 | PA-45 DA | M16 | 210 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 |
| 160 | PA-55 DA | M20 | 240 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 |
| 225 | PA-55 DA | M20 | 295 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| 75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# PVC-C metric

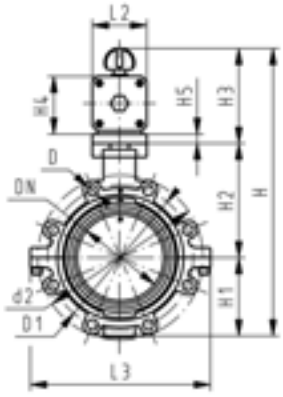
## Butterfly valve type 242 PVC-C
## DA (Double acting)
## Without manual override

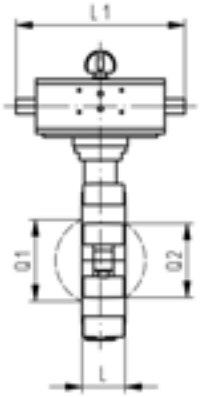
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 242** | **199 242 262** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 243** | **199 242 263** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 244** | **199 242 264** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 245** | **199 242 265** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 246** | **199 242 266** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 247** | **199 242 267** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 248** | **199 242 268** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-35 DA | UNC 5/8 | 121 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 |
| 2 ½ | PA-35 DA | UNC 5/8 | 140 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 |
| 3 | PA-40 DA | UNC 5/8 | 153 | 177 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 |
| 4 | PA-45 DA | UNC 5/8 | 191 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 |
| *5 | PA-45 DA | UNC 3/4 | 216 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 |
| 6 | PA-55 DA | UNC 3/4 | 242 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 |
| 8 | PA-55 DA | UNC 3/4 | 299 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 55 | 150 | 40 | |
| 2 ½ | 55 | 160 | 54 | 35 |
| 3 | 60 | 175 | 67 | 50 |
| 4 | 65 | 244 | 88 | 74 |
| *5 | 72 | 272 | 113 | 97 |
| 6 | 80 | 297 | 139 | 123 |
| 8 | 90 | 360 | 178 | 169 |

# PVC-C metric

# ABS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| | Butterfly valves pneumatic | 323 |

# ABS

# Ball valves electric

## Ball valve type 134 ABS 100-230V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

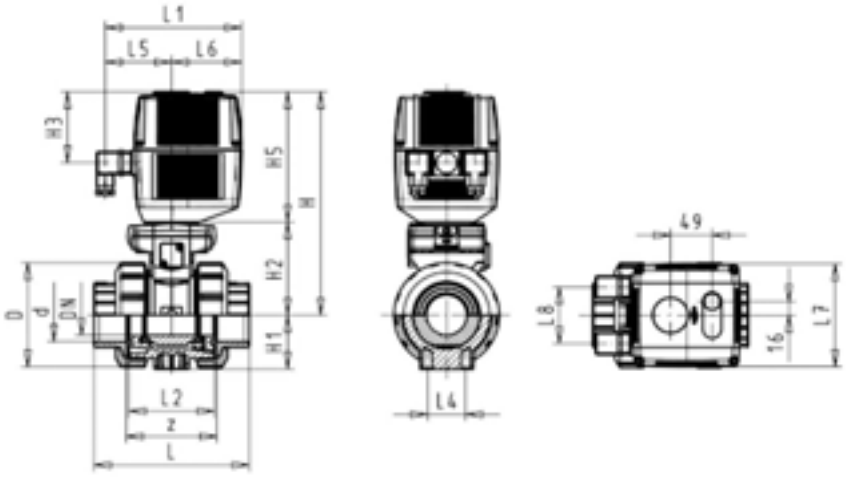
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 134 782** | 2.100 |
| ½ | 15 | 10 | 185 | **199 134 783** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 134 784** | 2.200 |
| 1 | 25 | 10 | 700 | **199 134 785** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 134 786** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 134 787** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 134 788** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 69 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 75 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 89 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 97 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 110 |



# ABS

## Ball valve type 130 ABS 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

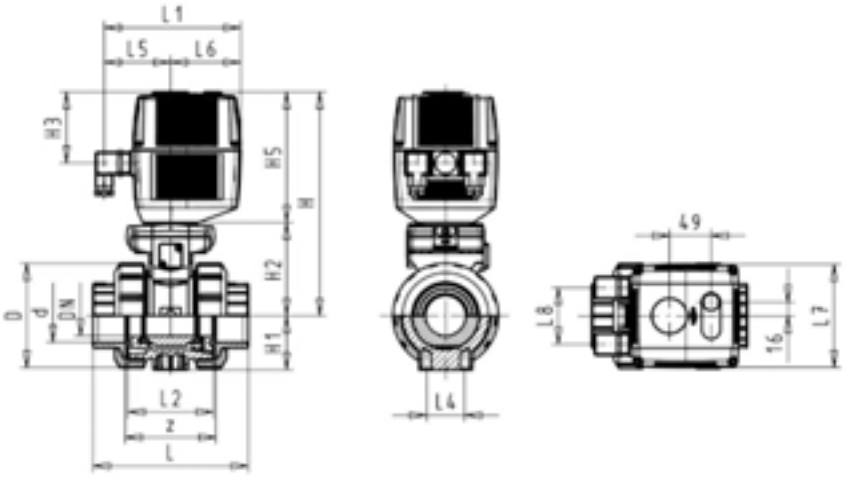
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 702** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 703** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 704** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 705** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 706** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 707** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 708** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# ABS

## Ball valve type 130 ABS 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

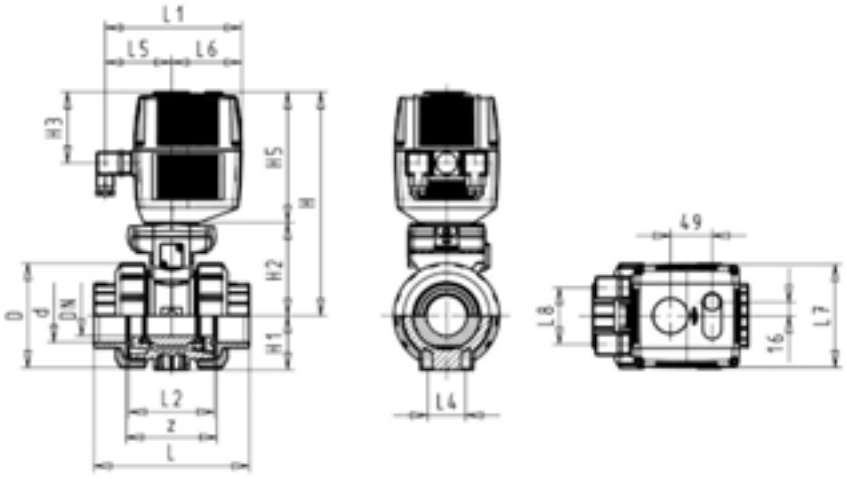
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 722** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 723** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 724** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 725** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 726** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 727** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 728** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# ABS

## Ball valve type 130 ABS 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

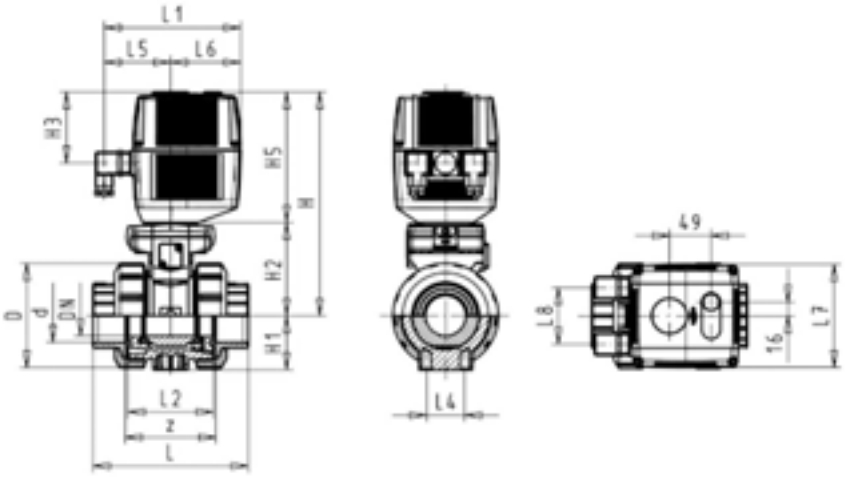
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 130 742** | 2.100 |
| 20 | 15 | 10 | 185 | **199 130 743** | 2.100 |
| 25 | 20 | 10 | 350 | **199 130 744** | 2.200 |
| 32 | 25 | 10 | 700 | **199 130 745** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 130 746** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 130 747** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 130 748** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# ABS

## Ball valve type 130 ABS 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

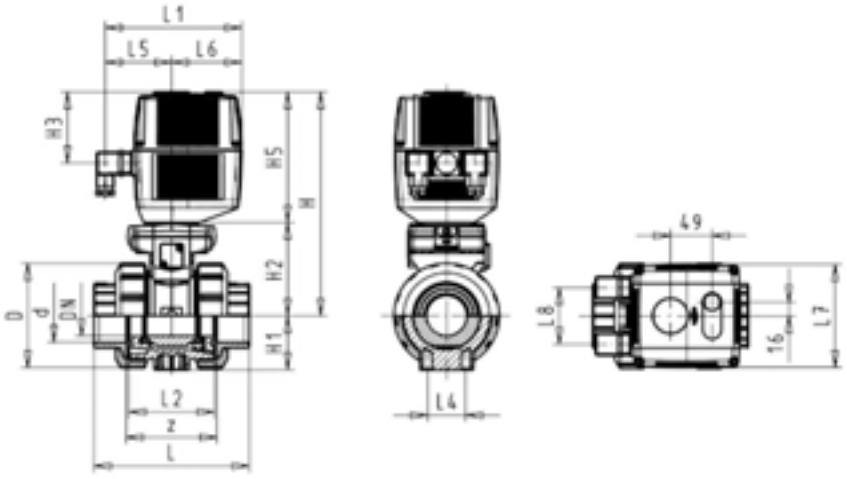
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 130 762** | 2.100 |
| ½ | 15 | 10 | 185 | **199 130 763** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 130 764** | 2.200 |
| 1 | 25 | 10 | 700 | **199 130 765** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 130 766** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 130 767** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 130 768** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# ABS

## Ball valve type 134 ABS 24V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

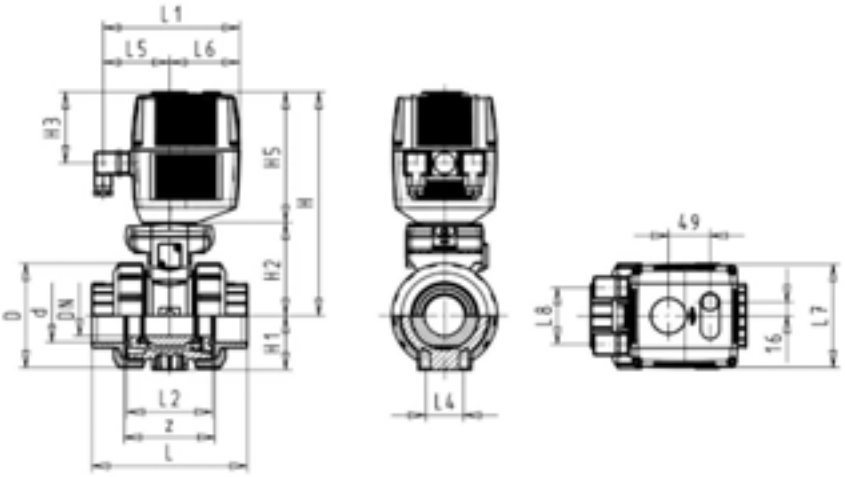
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 134 822** | 2.100 |
| ½ | 15 | 10 | 185 | **199 134 823** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 134 824** | 2.200 |
| 1 | 25 | 10 | 700 | **199 134 825** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 134 826** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 134 827** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 134 828** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ½ | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 60 |
| ¾ | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 69 |
| 1 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 75 |
| 1 ¼ | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 89 |
| 1 ½ | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 97 |
| 2 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 110 |



# ABS

## Ball valve type 107 ABS 100-230V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

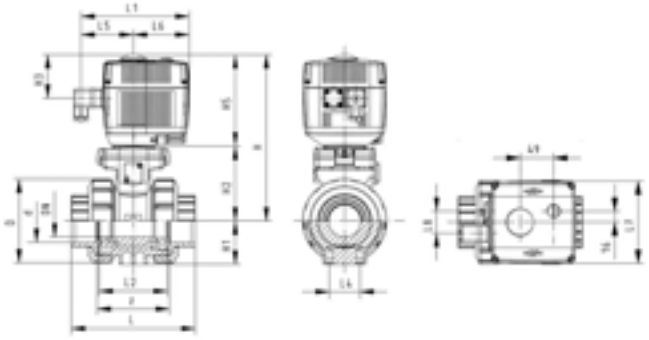
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 182** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 183** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 184** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 185** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 186** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 187** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 188** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 69 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 75 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 89 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 97 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 110 |



# ABS

## Ball valve type 107 ABS 100-230V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

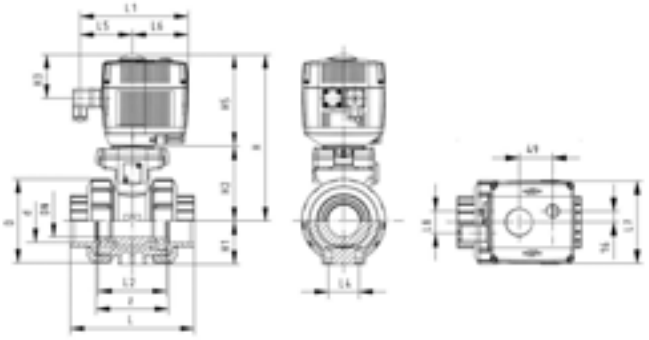
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 082** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 083** | 2.072 |
| 25 | 20 | 10 | 350 | **199 107 084** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 085** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 086** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 087** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 088** | 3.772 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# ABS

## Ball valve type 107 ABS 100-230V
## With manual emergency override
## With threaded sockets Rp

**Model:**

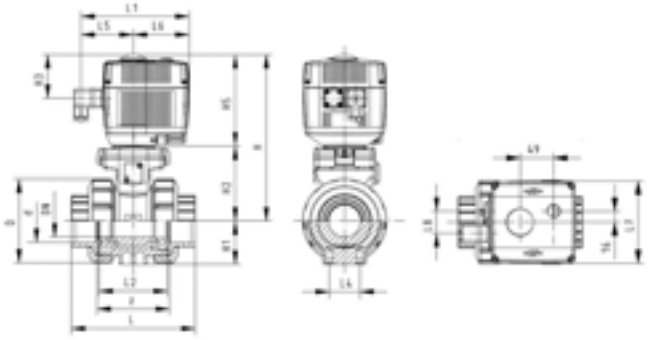
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 682** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 683** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 684** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 685** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 686** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 687** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 688** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# ABS

## Ball valve type 107 ABS 24V
## With manual emergency override
## With solvent cement sockets Inch BS

**Model:**

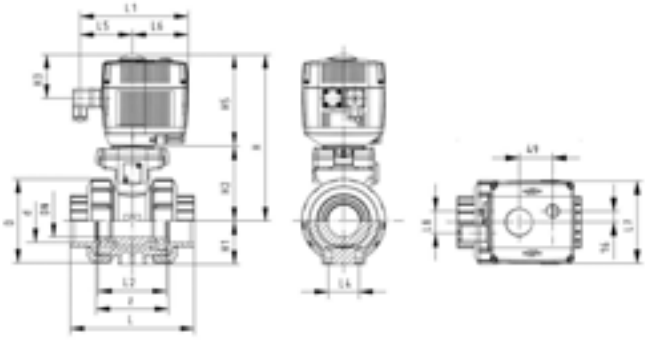
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 192** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 193** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 194** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 195** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 196** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 197** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 198** | 3.800 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 60 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 69 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 75 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 89 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 97 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 110 |



# ABS

## Ball valve type 107 ABS 24V
## With manual emergency override
## With solvent cement sockets metric

**Model:**

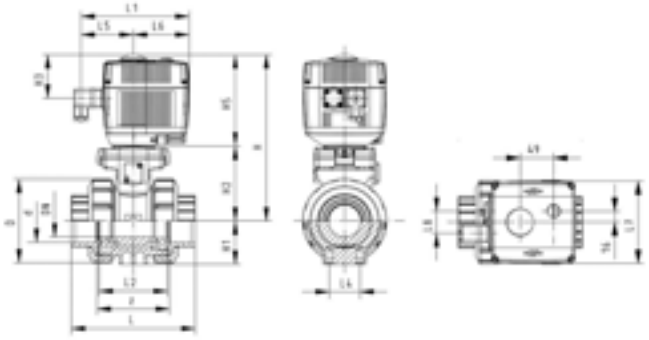
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 092** | 2.072 |
| 20 | 15 | 10 | 185 | **199 107 093** | 2.072 |
| 25 | 20 | 10 | 350 | **199 107 094** | 2.189 |
| 32 | 25 | 10 | 700 | **199 107 095** | 2.189 |
| 40 | 32 | 10 | 1000 | **199 107 096** | 2.592 |
| 50 | 40 | 10 | 1600 | **199 107 097** | 2.914 |
| 63 | 50 | 10 | 3100 | **199 107 098** | 3.772 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# ABS

## Ball valve type 107 ABS 24V
## With manual emergency override
## With threaded sockets Rp

**Model:**

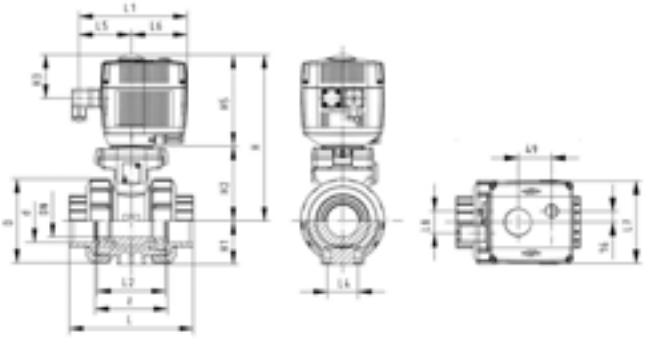
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 107 692** | 2.100 |
| ½ | 15 | 10 | 185 | **199 107 693** | 2.100 |
| ¾ | 20 | 10 | 350 | **199 107 694** | 2.200 |
| 1 | 25 | 10 | 700 | **199 107 695** | 2.300 |
| 1 ¼ | 32 | 10 | 1000 | **199 107 696** | 2.600 |
| 1 ½ | 40 | 10 | 1600 | **199 107 697** | 3.000 |
| 2 | 50 | 10 | 3100 | **199 107 698** | 3.800 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ½ | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 64 |
| ¾ | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 72 |
| 1 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 79 |
| 1 ¼ | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 94 |
| 1 ½ | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 95 |
| 2 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 107 |



# ABS

## Ball valve type 108 ABS 24V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)

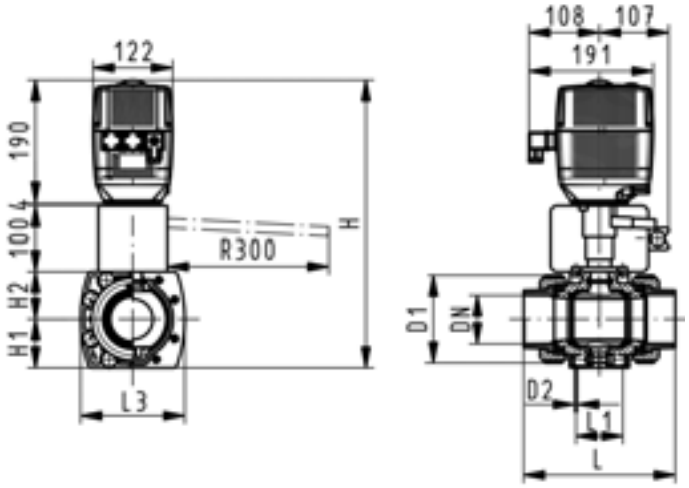
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | kg |
|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | EA 31 | **199 108 015** | 7.900 |
| 90 | 80 | 10 | 7000 | EA 31 | **199 108 016** | 9.400 |
| 110 | 100 | 10 | 11000 | EA 31 | **199 108 017** | 12.900 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# ABS

## Ball valve type 108 ABS 100-230V
## With manual override
## Unions with solvent cement sockets metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)

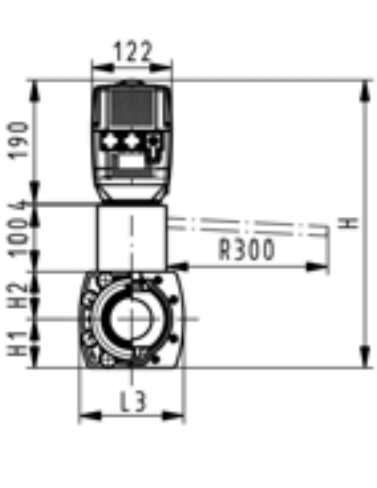
**Note:**

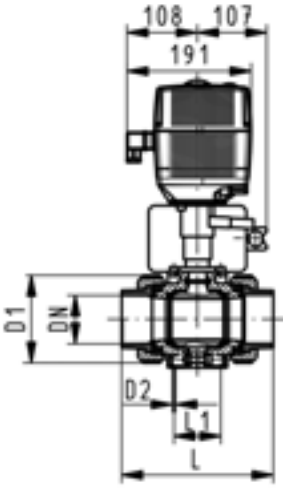
- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | kg |
|---|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | EA 31 | **199 108 012** | 7.900 |
| 90 | 80 | 10 | 7000 | EA 31 | **199 108 013** | 9.400 |
| 110 | 100 | 10 | 11000 | EA 31 | **199 108 014** | 12.900 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 135 | 10 | 233 | 72 | 160 | 442 | 75 | 73 |
| 90 | 158 | 10 | 267 | 88 | 188 | 470 | 88 | 88 |
| 110 | 188 | 12 | 318 | 104 | 225 | 517 | 110 | 113 |



# ABS

## 3-Way ball valve type 175 ABS
## Horizontal/L-port 100/230V
## With manual emergency override
## With solvent cement sockets metric

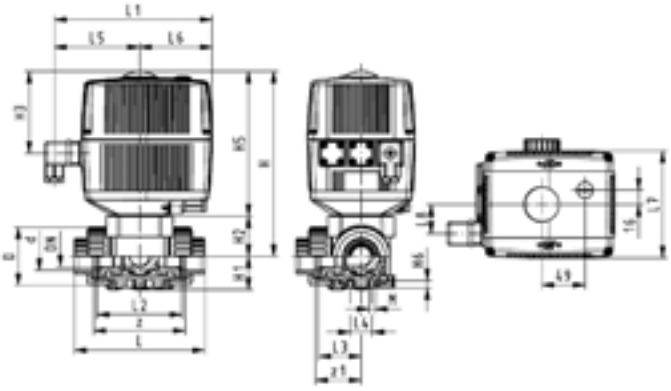
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 162** | 2.073 |
| 20 | 15 | 10 | 75 | **199 175 163** | 2.073 |
| 25 | 20 | 10 | 150 | **199 175 164** | 2.214 |
| 32 | 25 | 10 | 280 | **199 175 165** | 2.352 |
| 40 | 32 | 10 | 480 | **199 175 166** | 2.614 |
| 50 | 40 | 10 | 620 | **199 175 167** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 168** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 175 ABS
## Horizontal/T-port 100/230V
## With manual emergency override
## With solvent cement sockets metric

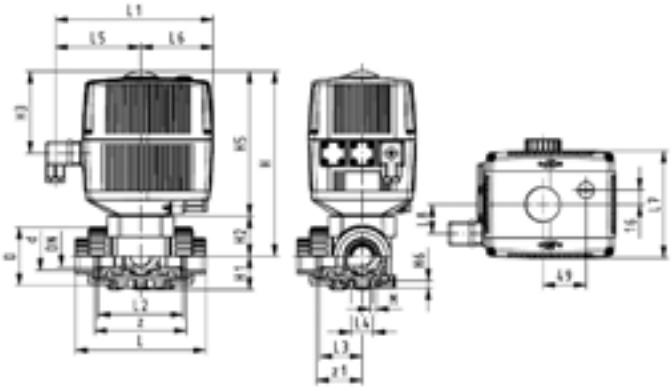
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 175 172** | 2.073 |
| 20 | 15 | 10 | 200 | **199 175 173** | 2.121 |
| 25 | 20 | 10 | 470 | **199 175 174** | 2.303 |
| 32 | 25 | 10 | 793 | **199 175 175** | 2.801 |
| 40 | 32 | 10 | 1290 | **199 175 176** | 2.815 |
| 50 | 40 | 10 | 1910 | **199 175 177** | 3.359 |
| 63 | 50 | 10 | 3100 | **199 175 178** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 175 ABS
## Horizontal/L-port 24V
## With manual emergency override
## With solvent cement sockets metric

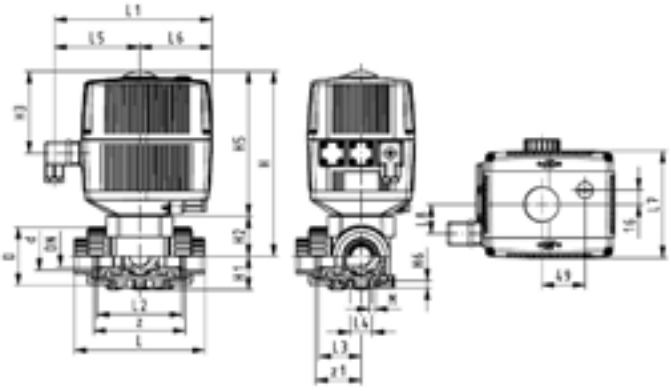
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- For easy installation and removal
- Control range 90°<)
- Integrated stainless steel mounting inserts
- Control time 5 s/90°<)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 175 342** | 2.073 |
| 20 | 15 | 10 | 75 | **199 175 343** | 2.073 |
| 25 | 20 | 10 | 150 | **199 175 344** | 2.303 |
| 32 | 25 | 10 | 280 | **199 175 345** | 2.352 |
| 40 | 32 | 10 | 480 | **199 175 346** | 2.614 |
| 50 | 40 | 10 | 620 | **199 175 347** | 3.359 |
| 63 | 50 | 10 | 1230 | **199 175 348** | 4.728 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 175 ABS
## Horizontal/T-port 24V
## With manual emergency override
## With solvent cement sockets metric

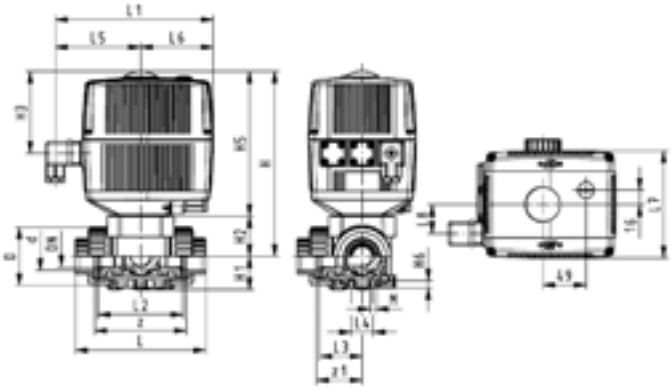
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 175 352** | 2.073 |
| 20 | 15 | 10 | 200 | **199 175 353** | 2.073 |
| 25 | 20 | 10 | 470 | **199 175 354** | 2.303 |
| 32 | 25 | 10 | 793 | **199 175 355** | 2.352 |
| 40 | 32 | 10 | 1290 | **199 175 356** | 2.815 |
| 50 | 40 | 10 | 1910 | **199 175 357** | 3.680 |
| 63 | 50 | 10 | 3100 | **199 175 358** | 5.052 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 20 | 45 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 72 | 36 | 25 | 99 | 83 | 122 |
| 25 | 52 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 65 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 78 | 216 | 44 | 50 | 93 | 166 | 9 | 176 | 182 | 116 | 58 | 45 | 99 | 83 | 122 |
| 50 | 92 | 229 | 50 | 63 | 93 | 166 | 9 | 206 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 116 | 242 | 61 | 76 | 93 | 166 | 9 | 262 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 80 | 40 |
| 20 | 33 | 6 | 80 | 40 |
| 25 | 33 | 6 | 94 | 47 |
| 32 | 33 | 6 | 104 | 52 |
| 40 | 33 | 8 | 126 | 63 |
| 50 | 33 | 8 | 144 | 72 |
| 63 | 33 | 8 | 186 | 93 |



# ABS

# Ball valves pneumatic

## Ball valve type 234 ABS FC (Fail safe to close)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

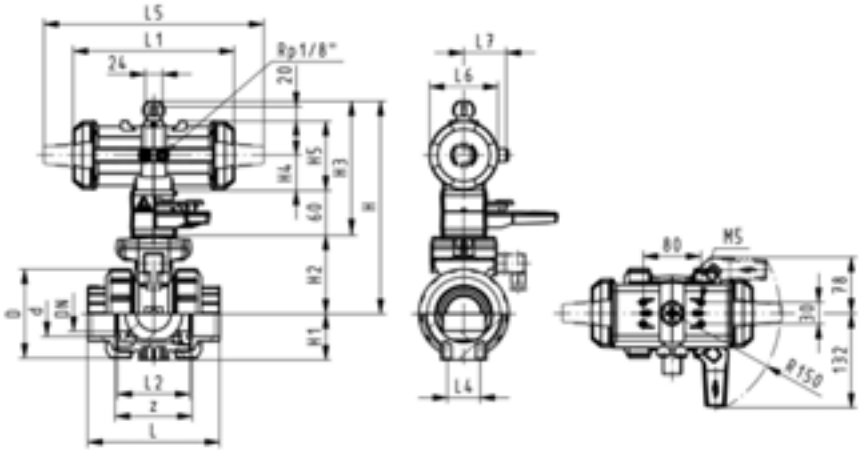
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 702** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 703** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 704** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 705** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 706** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 707** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 708** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS FC (Fail safe to close)
## With manual override
## With solvent cement sockets metric

**Model:**

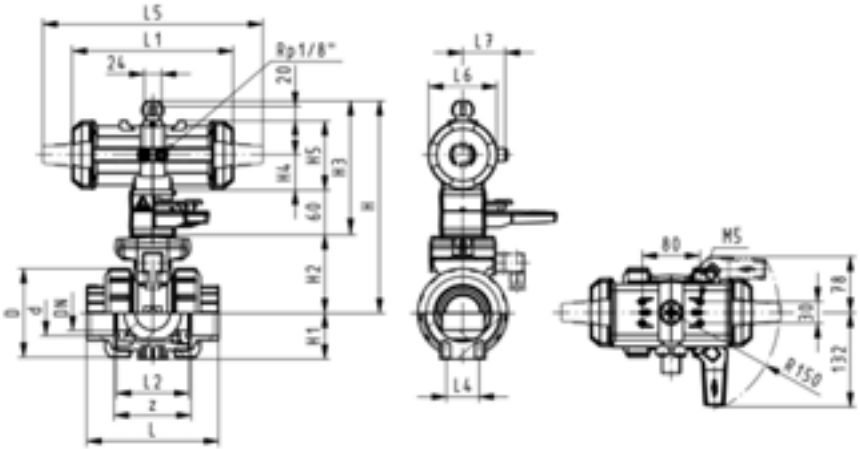
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 702** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 703** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 704** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 705** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 706** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 707** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 708** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS FC (Fail safe to close)
## With manual override
## With threaded sockets Rp

**Model:**

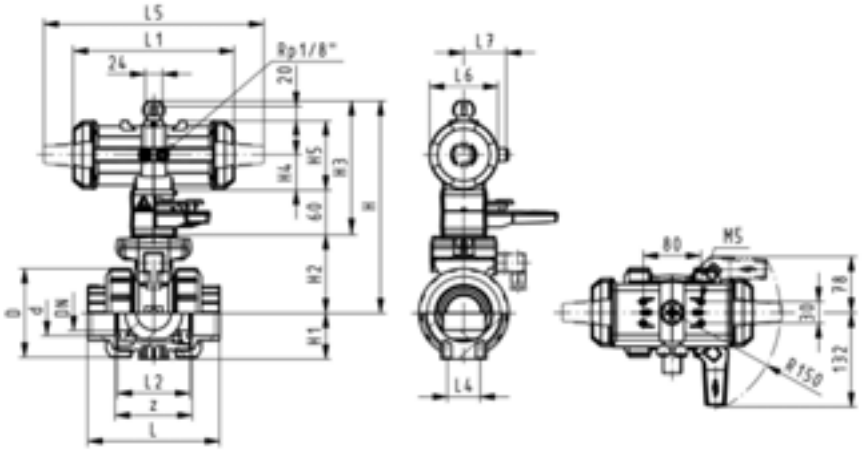
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 722** | 1.459 |
| ½ | 15 | 10 | 185 | **199 230 723** | 1.459 |
| ¾ | 20 | 10 | 350 | **199 230 724** | 1.576 |
| 1 | 25 | 10 | 700 | **199 230 725** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 726** | 2.751 |
| 1 ½ | 40 | 10 | 1600 | **199 230 727** | 3.073 |
| 2 | 50 | 10 | 3100 | **199 230 728** | 3.931 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 234 ABS FO (Fail safe to open)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

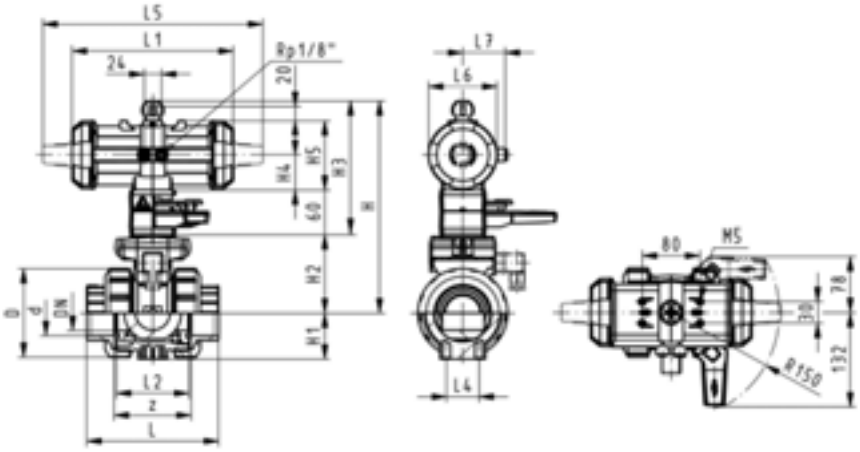
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| ⅜ | 3/8 | 10 | 10 | 70 | **199 234 742** | 1.500 |
| ½ | 1/2 | 15 | 10 | 185 | **199 234 743** | 1.500 |
| ¾ | 3/4 | 20 | 10 | 350 | **199 234 744** | 1.600 |
| 1 | 1 | 25 | 10 | 700 | **199 234 745** | 1.700 |
| 1 ¼ | 11/4 | 32 | 10 | 1000 | **199 234 746** | 2.800 |
| 1 ½ | 11/2 | 40 | 10 | 1600 | **199 234 747** | 3.100 |
| 2 | 2 | 50 | 10 | 3100 | **199 234 748** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS FO (Fail safe to open)
## With manual override
## With solvent cement sockets metric

**Model:**

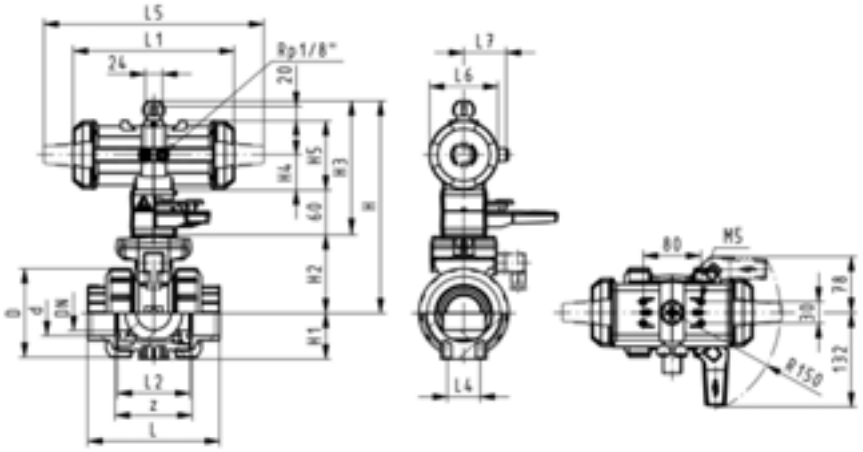
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 742** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 743** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 744** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 745** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 746** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 747** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 748** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS FO (Fail safe to open)
## With manual override
## With threaded sockets Rp

**Model:**

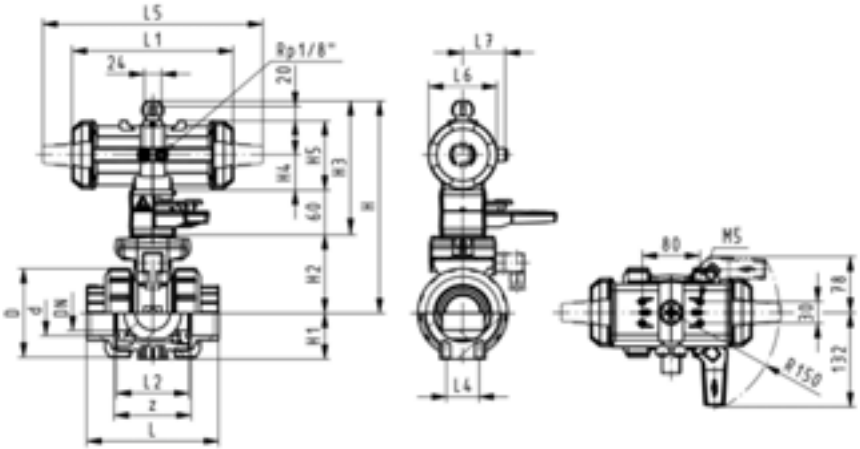
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 762** | 1.459 |
| ½ | 15 | 10 | 185 | **199 230 763** | 1.459 |
| ¾ | 20 | 10 | 350 | **199 230 764** | 1.576 |
| 1 | 25 | 10 | 700 | **199 230 765** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 766** | 2.751 |
| 1 ½ | 40 | 10 | 1600 | **199 230 767** | 3.073 |
| 2 | 50 | 10 | 3100 | **199 230 768** | 3.931 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 234 ABS DA (Double acting)
## With manual override
## With solvent cement sockets Inch BS

**Model:**

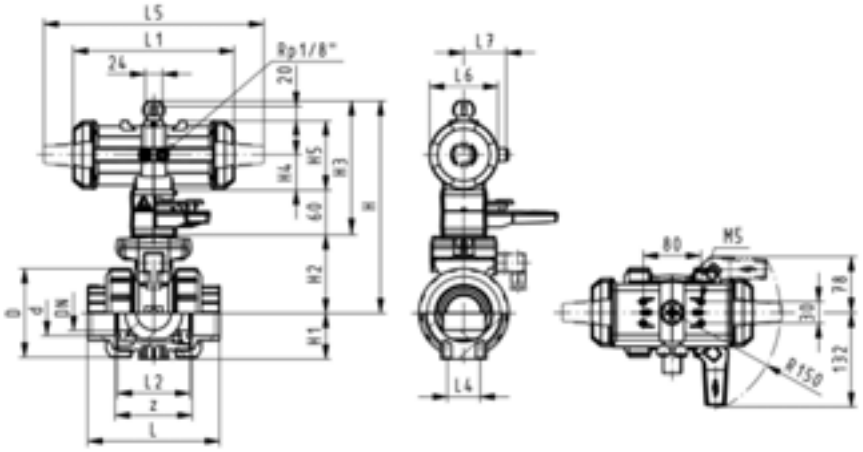
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 782** | 1.500 |
| ½ | 15 | 10 | 185 | **199 234 783** | 1.500 |
| ¾ | 20 | 10 | 350 | **199 234 784** | 1.600 |
| 1 | 25 | 10 | 700 | **199 234 785** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 786** | 2.800 |
| 1 ½ | 40 | 10 | 1600 | **199 234 787** | 3.100 |
| 2 | 50 | 10 | 3100 | **199 234 788** | 4.000 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS DA (Double acting)
## With manual override
## With solvent cement sockets metric

**Model:**

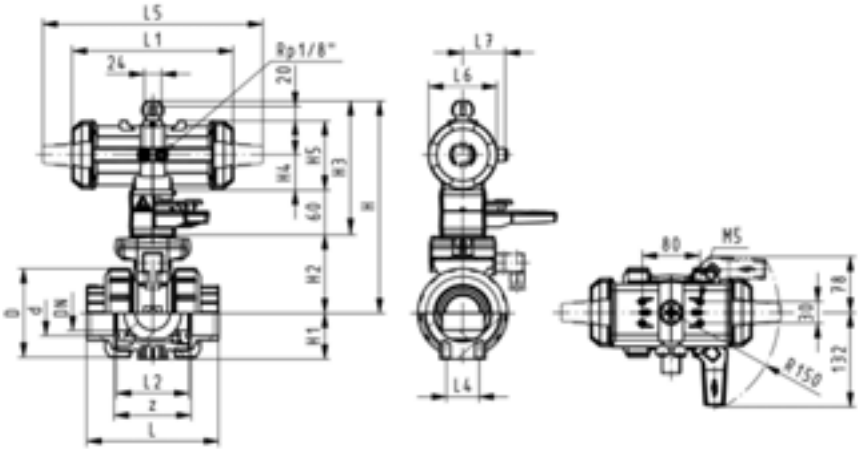
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 782** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 783** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 784** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 785** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 786** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 787** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 788** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS DA (Double acting)
## With manual override
## With threaded sockets Rp

**Model:**

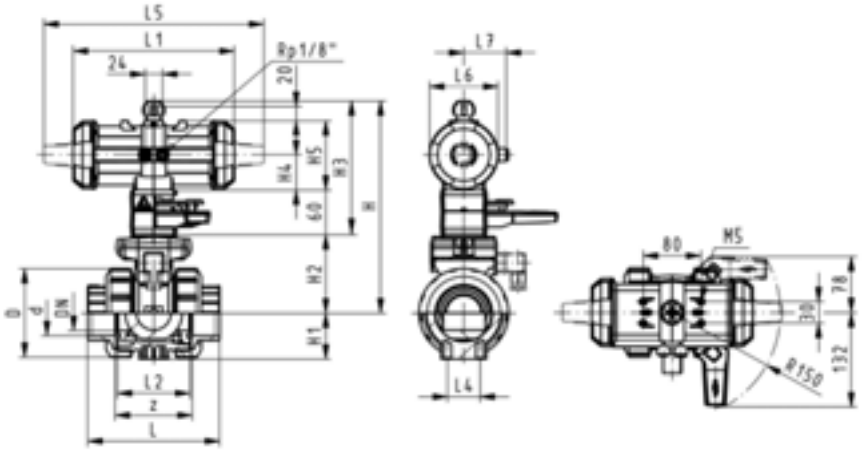
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 802** | 1.459 |
| ½ | 15 | 10 | 185 | **199 230 803** | 1.459 |
| ¾ | 20 | 10 | 350 | **199 230 804** | 1.576 |
| 1 | 25 | 10 | 700 | **199 230 805** | 1.700 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 806** | 2.751 |
| 1 ½ | 40 | 10 | 1600 | **199 230 807** | 3.073 |
| 2 | 50 | 10 | 3100 | **199 230 808** | 3.931 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 234 ABS FC (Fail safe to close)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

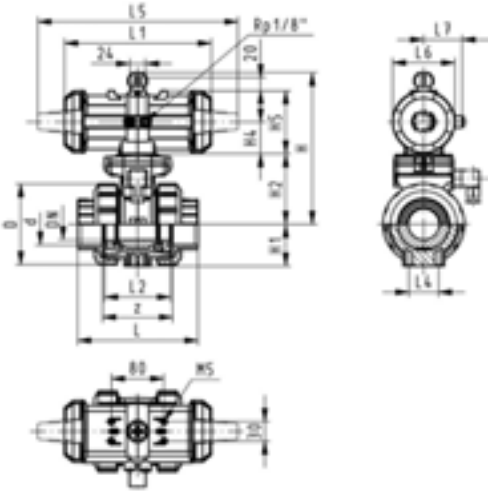
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 822** | 1.200 |
| ½ | 15 | 10 | 185 | **199 234 823** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 234 824** | 1.300 |
| 1 | 25 | 10 | 700 | **199 234 825** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 826** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 234 827** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 234 828** | 3.700 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS FC (Fail safe to close)
## Without manual override
## With solvent cement sockets metric

**Model:**

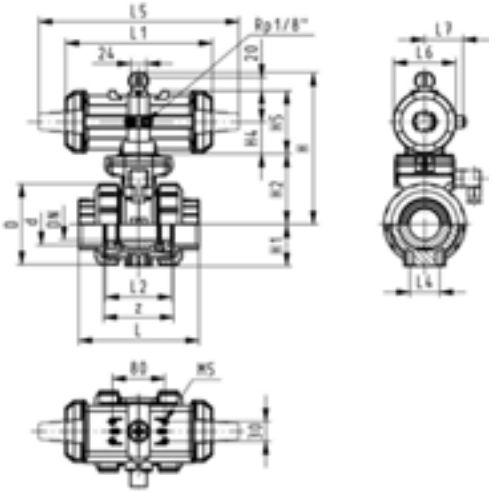
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 822** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 823** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 824** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 825** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 826** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 827** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 828** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS FC (Fail safe to close)
## Without manual override
## With threaded sockets Rp

**Model:**

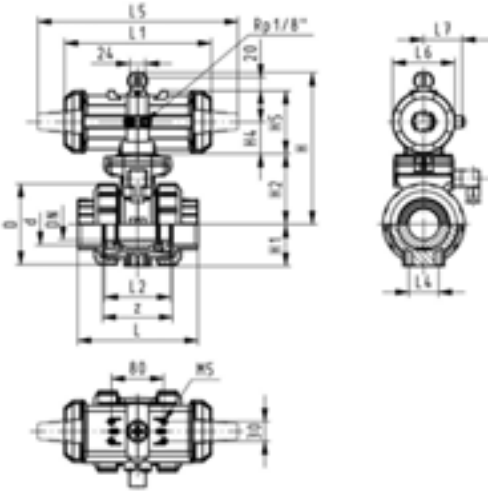
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 842** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 843** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 844** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 845** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 846** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 847** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 848** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 234 ABS FO (Fail safe to open)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

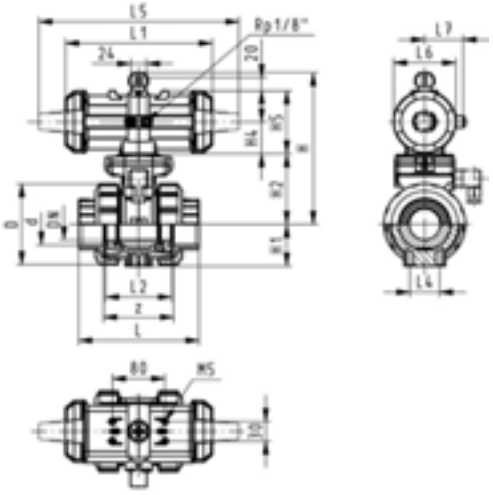
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 862** | 1.200 |
| ½ | 15 | 10 | 185 | **199 234 863** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 234 864** | 1.300 |
| 1 | 25 | 10 | 700 | **199 234 865** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 866** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 234 867** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 234 868** | 3.700 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS FO (Fail safe to open)
## Without manual override
## With solvent cement sockets metric

**Model:**

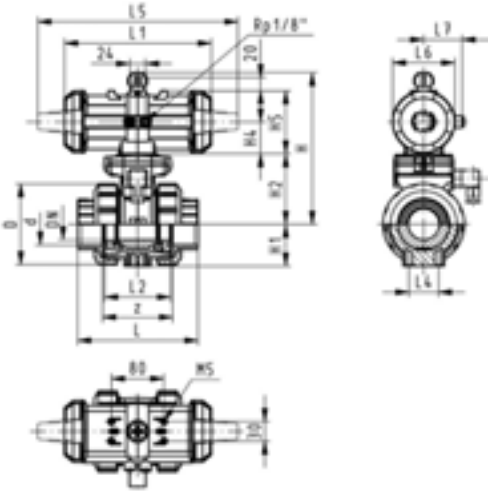
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 862** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 863** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 864** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 865** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 866** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 867** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 868** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS FO (Fail safe to open)
## Without manual override
## With threaded sockets Rp

**Model:**

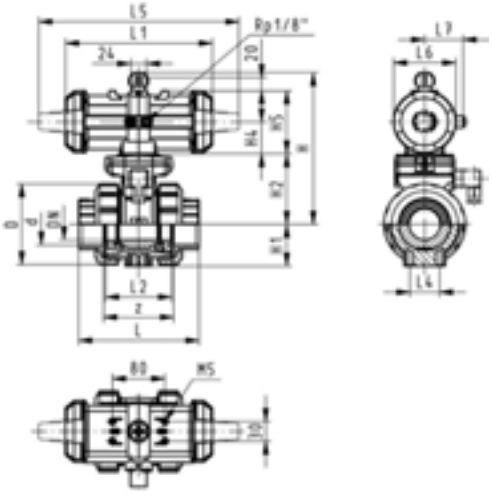
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 882** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 883** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 884** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 885** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 886** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 887** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 888** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 234 ABS DA (Double acting)
## Without manual override
## With solvent cement sockets Inch BS

**Model:**

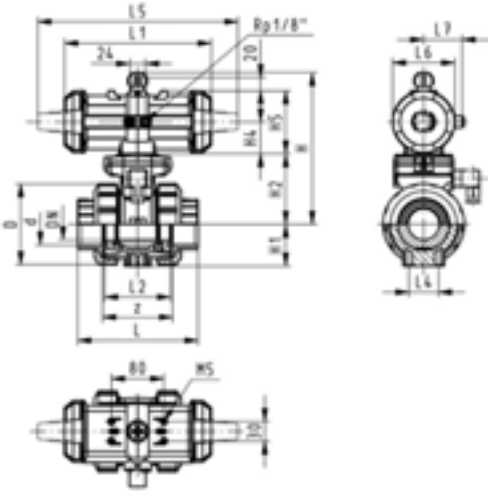
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 234 902** | 1.200 |
| ½ | 15 | 10 | 185 | **199 234 903** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 234 904** | 1.300 |
| 1 | 25 | 10 | 700 | **199 234 905** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 234 906** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 234 907** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 234 908** | 3.700 |

| Inch | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 60 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 69 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 75 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 89 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 97 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 110 |



# ABS

## Ball valve type 230 ABS DA (Double acting)
## Without manual override
## With solvent cement sockets metric

**Model:**

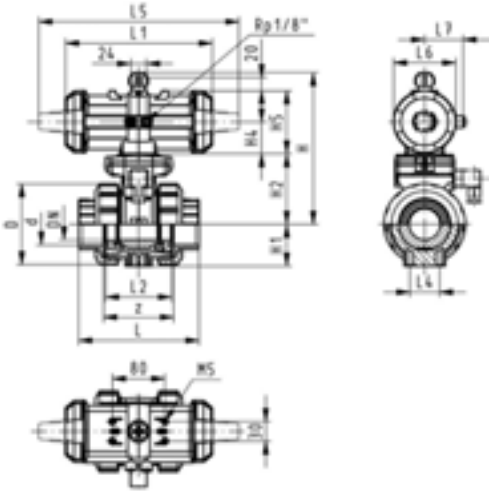
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 230 902** | 1.459 |
| 20 | 15 | 10 | 185 | **199 230 903** | 1.459 |
| 25 | 20 | 10 | 350 | **199 230 904** | 1.576 |
| 32 | 25 | 10 | 700 | **199 230 905** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 230 906** | 2.751 |
| 50 | 40 | 10 | 1600 | **199 230 907** | 3.073 |
| 63 | 50 | 10 | 3100 | **199 230 908** | 3.931 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 230 ABS DA (Double acting)
## Without manual override
## With threaded sockets Rp

**Model:**

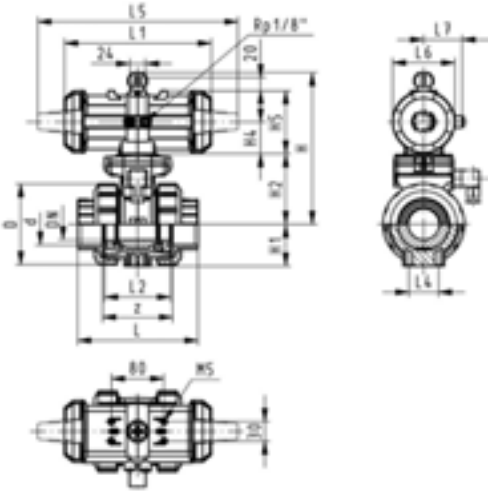
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| Rp [inch] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ⅜ | 10 | 10 | 70 | **199 230 922** | 1.200 |
| ½ | 15 | 10 | 185 | **199 230 923** | 1.200 |
| ¾ | 20 | 10 | 350 | **199 230 924** | 1.300 |
| 1 | 25 | 10 | 700 | **199 230 925** | 1.400 |
| 1 ¼ | 32 | 10 | 1000 | **199 230 926** | 2.500 |
| 1 ½ | 40 | 10 | 1600 | **199 230 927** | 2.800 |
| 2 | 50 | 10 | 3100 | **199 230 928** | 3.700 |

| Rp [inch] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅜ | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ½ | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| ¾ | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 1 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 1 ¼ | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 1 ½ | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 2 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# ABS

## Ball valve type 208 ABS FC (Fail safe to close)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

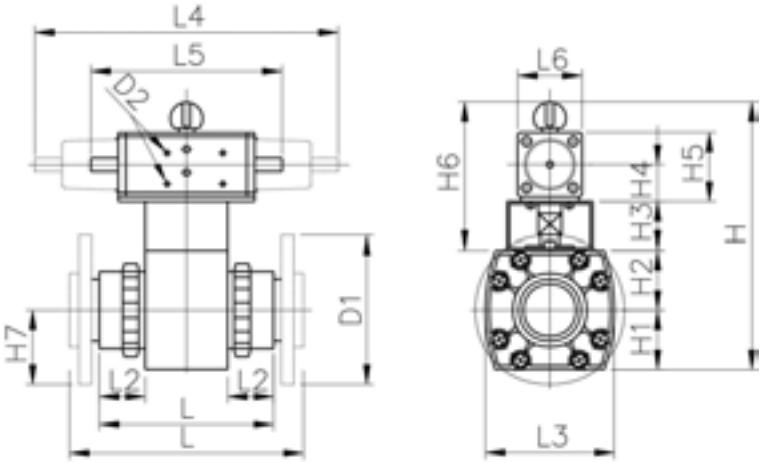
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 216** | 8.500 |
| 90 | 80 | 10 | 7000 | **199 208 217** | 13.500 |
| 110 | 100 | 10 | 11000 | **199 208 218** | 18.000 |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 |



# ABS

## Ball valve type 208 ABS FO (Fail safe to open)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

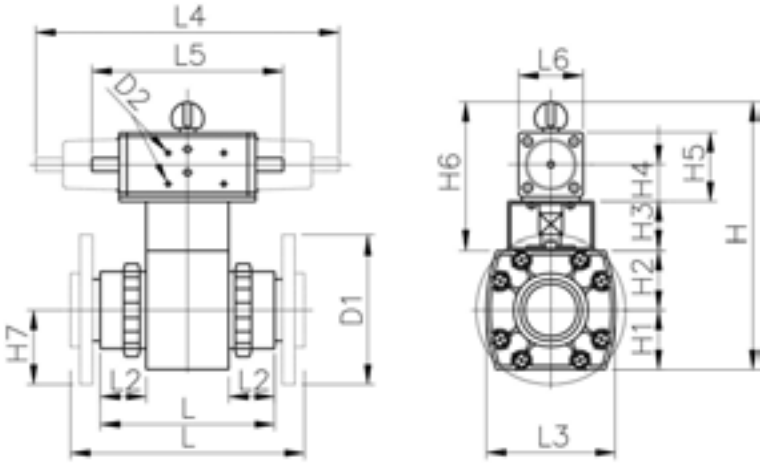
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 226** | 8.500 |
| 90 | 80 | 10 | 7000 | **199 208 227** | 13.500 |
| 110 | 100 | 10 | 11000 | **199 208 228** | 16.800 |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 |
| 90 | ⅛ | 267 | 82 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 |
| 110 | ⅛ | 318 | 95 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 |



# ABS

## Ball valve type 208 ABS DA (Double acting)
## Without manual override
## Unions with solvent cement sockets metric

**Model:**

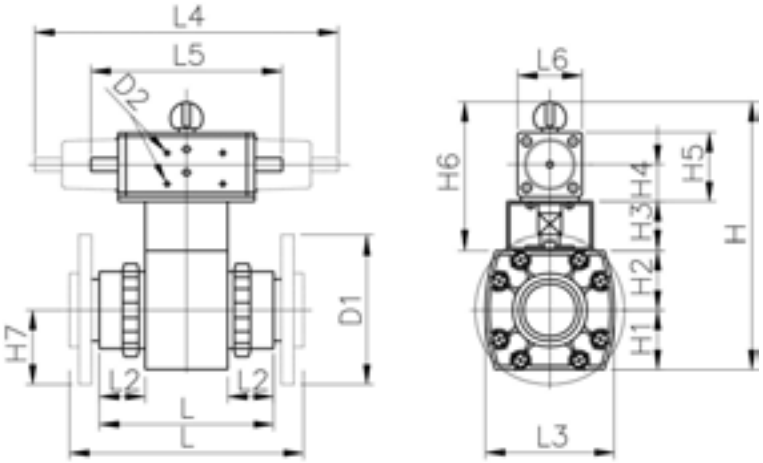
- Control time 90°<) 0,5-2 s
- For easy installation and removal

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 75 | 65 | 10 | 5000 | **199 208 236** | 6.400 |
| 90 | 80 | 10 | 7000 | **199 208 237** | 13.500 |
| 110 | 100 | 10 | 11000 | **199 208 238** | 18.000 |

| d [mm] | D2_G [inch] | L [mm] | L2 [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | ⅛ | 233 | 72 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 |
| 90 | ⅛ | 267 | 82 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 |
| 110 | ⅛ | 318 | 95 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 |



# ABS

## 3-Way ball valve type 275 ABS
## Horizontal/L-port
## Without manual override
## With solvent cement sockets metric

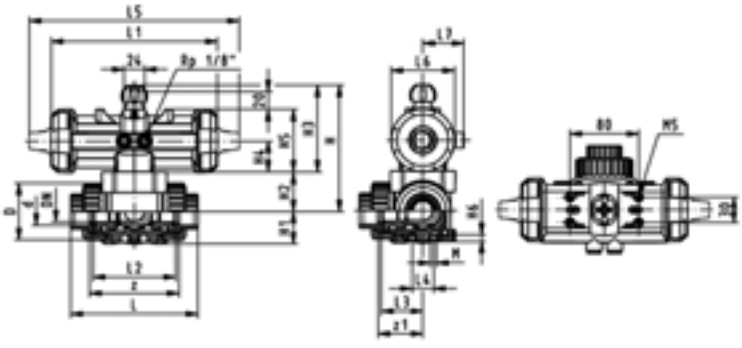
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 162** | 1.066 |
| 20 | 15 | 10 | 75 | **199 275 163** | 1.066 |
| 25 | 20 | 10 | 150 | **199 275 164** | 1.207 |
| 32 | 25 | 10 | 280 | **199 275 165** | 1.345 |
| 40 | 32 | 10 | 480 | **199 275 166** | 2.283 |
| 50 | 40 | 10 | 620 | **199 275 167** | 2.703 |
| 63 | 50 | 10 | 1230 | **199 275 168** | 3.771 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 275 ABS
## Horizontal/L-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

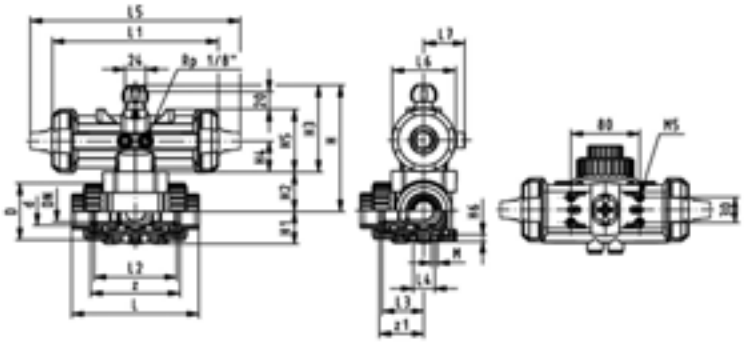
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°⟨) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 275 342** | 0.876 |
| 20 | 15 | 10 | 75 | **199 275 343** | 0.876 |
| 25 | 20 | 10 | 150 | **199 275 344** | 1.017 |
| 32 | 25 | 10 | 280 | **199 275 345** | 1.155 |
| 40 | 32 | 10 | 480 | **199 275 346** | 2.060 |
| 50 | 40 | 10 | 620 | **199 275 347** | 2.279 |
| 63 | 50 | 10 | 1230 | **199 275 348** | 3.347 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 275 ABS
## Horizontal/T-port
## Without manual override
## With solvent cement sockets metric

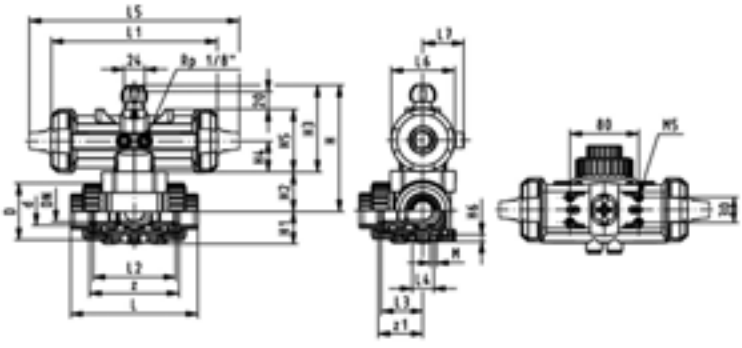
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-3 s

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 172** | 1.066 |
| 20 | 15 | 10 | 200 | **199 275 173** | 1.066 |
| 25 | 20 | 10 | 470 | **199 275 174** | 1.296 |
| 32 | 25 | 10 | 793 | **199 275 175** | 1.345 |
| 40 | 32 | 10 | 1290 | **199 275 176** | 2.283 |
| 50 | 40 | 10 | 1910 | **199 275 177** | 2.703 |
| 63 | 50 | 10 | 3100 | **199 275 178** | 4.397 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# ABS

## 3-Way ball valve type 275 ABS
## HorizontalT-port DA (Double acting)
## Without manual override
## With solvent cement sockets metric

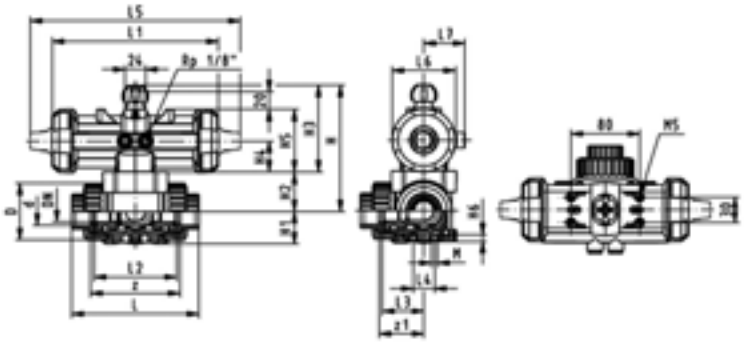
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 275 352** | 0.876 |
| 20 | 15 | 10 | 200 | **199 275 353** | 0.876 |
| 25 | 20 | 10 | 470 | **199 275 354** | 1.017 |
| 32 | 25 | 10 | 793 | **199 275 355** | 1.155 |
| 40 | 32 | 10 | 1290 | **199 275 356** | 1.859 |
| 50 | 40 | 10 | 1910 | **199 275 357** | 2.279 |
| 63 | 50 | 10 | 3100 | **199 275 358** | 3.347 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 72 | 36 | 25 | 261 | 73 |
| 20 | 45 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 72 | 36 | 25 | 261 | 73 |
| 25 | 52 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 65 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 78 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 176 | 224 | 116 | 58 | 45 | 305 | 94 |
| 50 | 92 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 206 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 116 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 262 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 80 | 40 |
| 20 | 48 | 6 | 80 | 40 |
| 25 | 48 | 6 | 94 | 47 |
| 32 | 48 | 6 | 104 | 52 |
| 40 | 59 | 8 | 126 | 63 |
| 50 | 59 | 8 | 144 | 72 |
| 63 | 59 | 8 | 186 | 93 |



# ABS

# Diaphragm valves pneumatic

## Diaphragm valve type DIASTAR ABS
## Series 025 FC (Fail safe to close)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 121** | 0.607 |
| ¾ | 20 | 10 | 120 | **199 027 122** | 0.766 |
| 1 | 25 | 10 | 238 | **199 027 123** | 1.320 |
| 1 ¼ | 32 | 10 | 341 | **199 027 124** | 2.562 |
| 1 ½ | 40 | 10 | 460 | **199 027 125** | 3.500 |
| 2 | 50 | 10 | 685 | **199 027 126** | 4.351 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 1 ¼ | 150 | ⅛ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 1 ½ | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 2 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 86 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 100 | 21 | 12 |
| 1 ¼ | 117 | 26 | 15 |
| 1 ½ | 133 | 33 | 15 |
| 2 | 133 | 39 | 15 |

# ABS

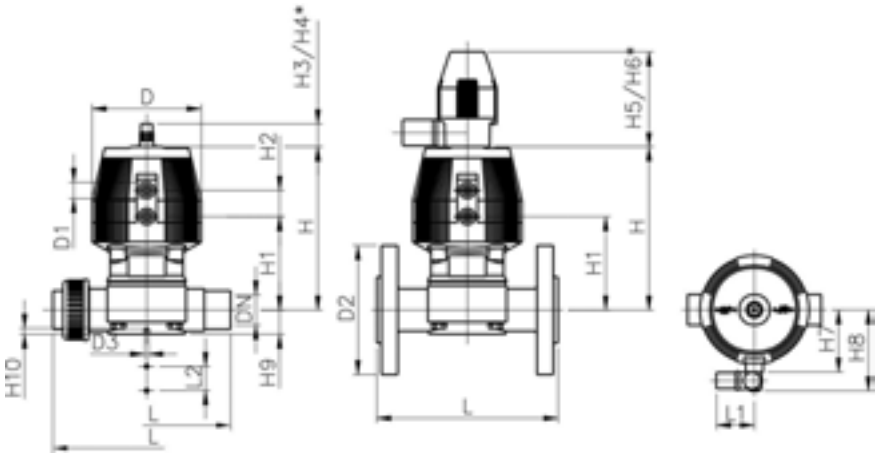
## Diaphragm valve type DIASTAR ABS
## Series 025 FC (Fail safe to close)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 941** | 0.607 |
| 25 | 20 | 10 | 120 | **199 025 942** | 0.766 |
| 32 | 25 | 10 | 238 | **199 025 943** | 1.320 |
| 40 | 32 | 10 | 341 | **199 025 944** | 2.562 |
| 50 | 40 | 10 | 460 | **199 025 945** | 3.500 |
| 63 | 50 | 10 | 685 | **199 025 946** | 4.351 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# ABS

## Diaphragm valve type DIASTAR ABS
## Series 025 FC (Fail safe to close)
## With fixed flanges ABS metric

**Model:**

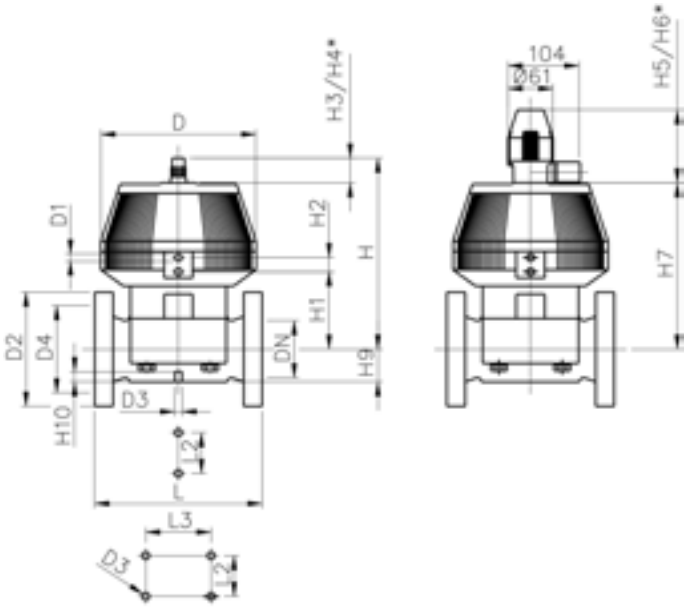
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges UP-GF metric
** with fixed flanges ABS metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 947** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 948** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 949** | 24.700 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# ABS

## Diaphragm valve type DIASTAR ABS
## Series 025 FO (Fail safe to open)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 131** | 0.404 |
| ¾ | 20 | 10 | 120 | **199 027 132** | 0.690 |
| 1 | 25 | 10 | 238 | **199 027 133** | 0.980 |
| 1 ¼ | 32 | 10 | 341 | **199 027 134** | 1.230 |
| 1 ½ | 40 | 10 | 460 | **199 027 135** | 2.210 |
| 2 | 50 | 10 | 685 | **199 027 136** | 4.360 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ⅛ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |

# ABS

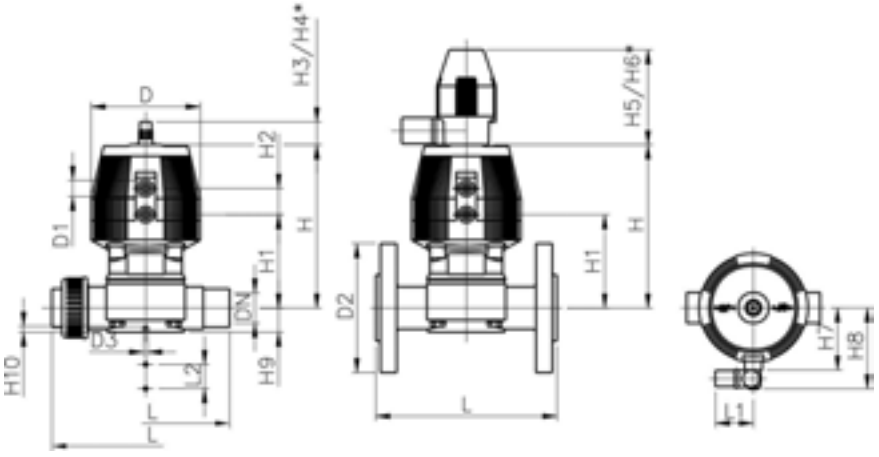
## Diaphragm valve type DIASTAR ABS
## Series 025 FO (Fail safe to open)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 951** | 0.404 |
| 25 | 20 | 10 | 120 | **199 025 952** | 0.690 |
| 32 | 25 | 10 | 238 | **199 025 953** | 0.980 |
| 40 | 32 | 10 | 341 | **199 025 954** | 1.230 |
| 50 | 40 | 10 | 460 | **199 025 955** | 2.210 |
| 63 | 50 | 10 | 685 | **199 025 956** | 4.360 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



## Diaphragm valve type DIASTAR ABS
## Series 025 FO (Fail safe to open)
## With fixed flanges ABS metric

**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

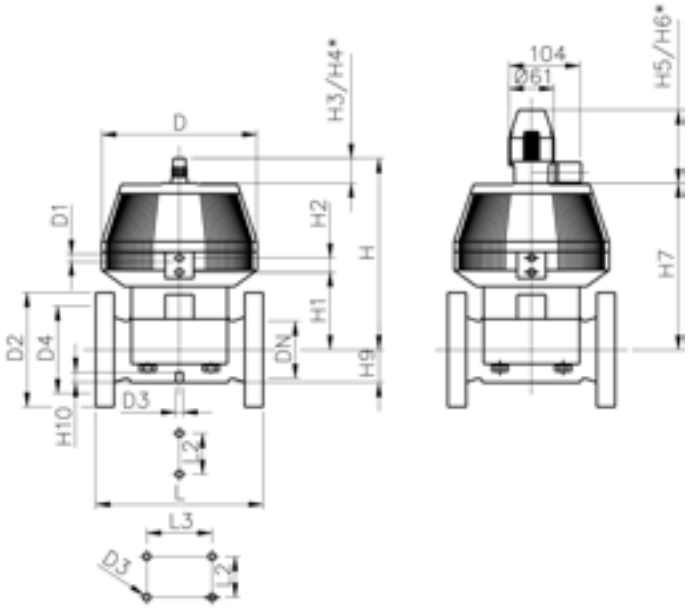
* with backing flanges UP-GF metric
** with fixed flanges ABS metric and Inch ANSI

# ABS

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 957** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 958** | 13.800 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 959** | |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# ABS

## Diaphragm valve type DIASTAR ABS
## Series 025 DA (Double acting)
## With solvent cement spigots BS

- With position indicator / Working pressure: both sides

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 027 141** | 0.404 |
| ¾ | 20 | 10 | 120 | **199 027 142** | 0.690 |
| 1 | 25 | 10 | 238 | **199 027 143** | 0.980 |
| 1 ¼ | 32 | 10 | 341 | **199 027 144** | 1.230 |
| 1 ½ | 40 | 10 | 460 | **199 027 145** | 2.900 |
| 2 | 50 | 10 | 685 | **199 027 146** | 4.360 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |

# ABS

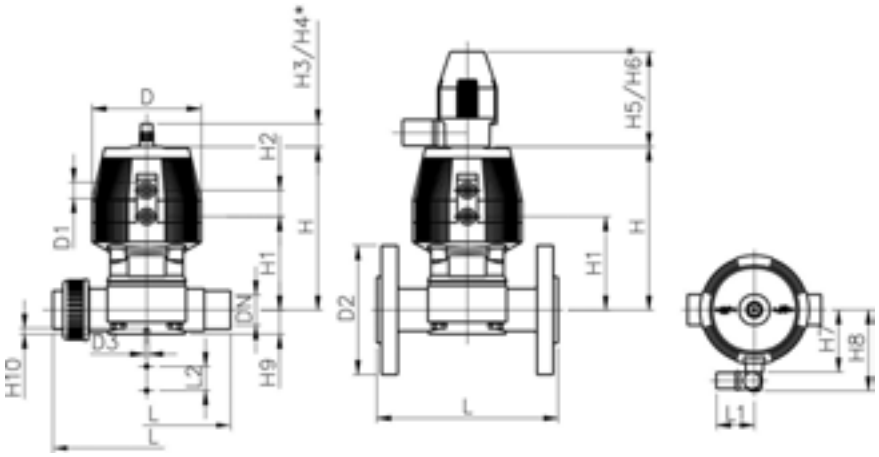
## Diaphragm valve type DIASTAR ABS
## Series 025 DA (Double acting)
## With solvent cement spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 961** | 0.404 |
| 25 | 20 | 10 | 120 | **199 025 962** | 0.690 |
| 32 | 25 | 10 | 238 | **199 025 963** | 1.260 |
| 40 | 32 | 10 | 341 | **199 025 964** | 1.230 |
| 50 | 40 | 10 | 460 | **199 025 965** | 2.210 |
| 63 | 50 | 10 | 685 | **199 025 966** | 4.360 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# ABS

## Diaphragm valve type DIASTAR ABS
## Series 025 DA (Double acting)
## With fixed flanges ABS metric

**Model:**

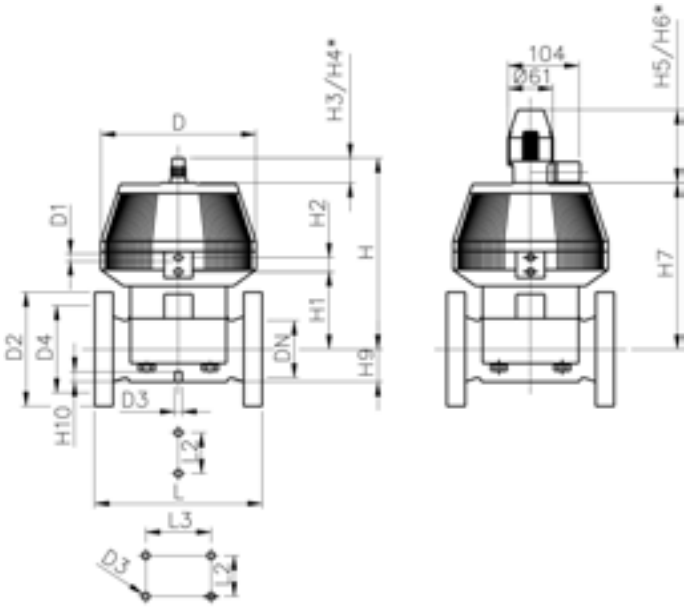
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges UP-GF metric
** with fixed flanges ABS metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 967** | |
| **90 | 80 | 3 | 10 | 1700 | **199 025 968** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 969** | |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | 344 | 148 | 24 | 46 | 100 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | 348 | 150 | 24 | 46 | 100 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 395 | 176 | 24 | 46 | 100 |

| d [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|
| *75 | 129 | 195 | 298 | 46 | 15 |
| **90 | 129 | 195 | 302 | 57 | 15 |
| 110 | 129 | 195 | 349 | 69 | 20 |



# ABS

## Diaphragm valve type DIASTAR ABS
## Series 028 FC (Fail safe to close)
## With solvent cement spigots BS

- With position indicator / Working pressure: **one side**

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 10 | 72 | **199 028 021** | 0.470 |
| ¾ | 20 | 10 | 120 | **199 028 022** | 0.900 |
| 1 | 25 | 10 | 238 | **199 028 023** | 1.190 |
| 1 ¼ | 32 | 10 | 341 | **199 028 024** | 1.650 |
| 1 ½ | 40 | 10 | 460 | **199 028 025** | 3.050 |
| 2 | 50 | 10 | 685 | **199 028 026** | 5.200 |

| Inch | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| ¾ | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 1 ¼ | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 1 ½ | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 2 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| Inch | H8 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|
| ½ | 76 | 14 | 12 |
| ¾ | 88 | 18 | 12 |
| 1 | 88 | 21 | 12 |
| 1 ¼ | 100 | 26 | 15 |
| 1 ½ | 117 | 33 | 15 |
| 2 | 117 | 39 | 15 |

# ABS

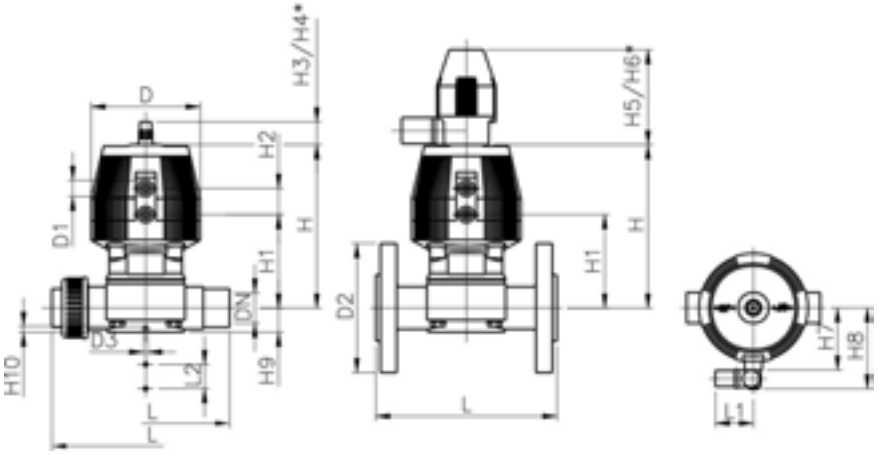
## Diaphragm valve type DIASTAR ABS
## Series 028 FC (Fail safe to close)
## With solvent cement spigots metric

- With position indicator / Working pressure: **one side**

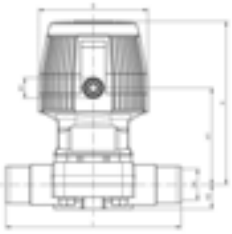
| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 028 941** | 0.470 |
| 25 | 20 | 10 | 120 | **199 028 942** | 0.900 |
| 32 | 25 | 10 | 238 | **199 028 943** | 1.190 |
| 40 | 32 | 10 | 341 | **199 028 944** | 1.650 |
| 50 | 40 | 10 | 460 | **199 028 945** | 3.050 |
| 63 | 50 | 10 | 685 | **199 028 946** | 5.200 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# ABS



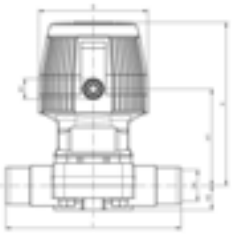
## Diaphragm valve type DIASTAR Eco ABS FC (Fail safe to close) With solvent cement spigots BS

**Model:**

- Working pressure 6 bar one side

| Inch | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| ½ | 15 | 6 | 72 | **199 024 961** | 0.492 |
| ¾ | 20 | 6 | 120 | **199 024 962** | 1.002 |
| 1 | 25 | 6 | 238 | **199 024 963** | 1.241 |
| 1 ¼ | 32 | 6 | 341 | **199 024 964** | 1.829 |
| 1 ½ | 40 | 6 | 460 | **199 024 965** | 2.356 |
| 2 | 50 | 6 | 685 | **199 024 966** | 2.801 |

| Inch | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| ½ | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| ¾ | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 1 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 1 ¼ | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 1 ½ | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 2 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |



## Diaphragm valve type DIASTAR Eco ABS FC (Fail safe to close) With solvent cement spigots metric

**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 181** | 0.510 |
| 25 | 20 | 6 | 120 | **199 024 182** | 1.033 |
| 32 | 25 | 6 | 238 | **199 024 183** | 1.291 |
| 40 | 32 | 6 | 341 | **199 024 184** | 1.909 |
| 50 | 40 | 6 | 460 | **199 024 185** | 2.477 |
| 63 | 50 | 6 | 685 | **199 024 186** | 3.103 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |

# ABS

# Butterfly valves electric

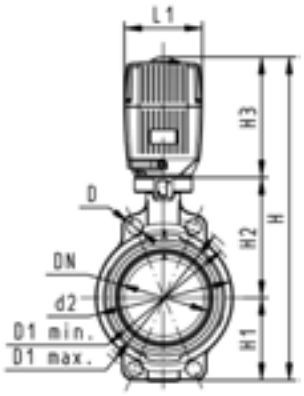
## Butterfly valve type 140 ABS 100-230V Without manual override

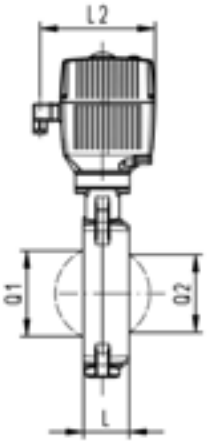
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 502** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 140 503** | |
| 90 | 80 | 3 | 10 | 3000 | **199 140 504** | 4.359 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 505** | 4.895 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 506** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 507** | 6.218 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 508** | 12.029 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 |
| *75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *63 | 40 | |
| *75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| *140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

# ABS

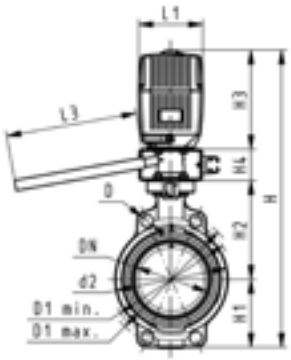
## Butterfly valve type 140 ABS 100-230V With manual override

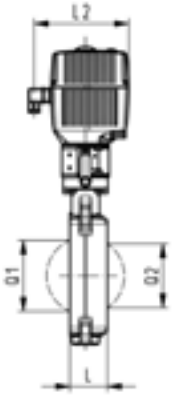
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 482** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 140 483** | |
| 90 | 80 | 3 | 10 | 3000 | **199 140 484** | 5.859 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 485** | 6.395 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 486** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 487** | 7.718 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 488** | 13.529 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 |
| *75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 |

| d [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 180 | 250 | 40 | |
| *75 | 180 | 250 | 54 | 35 |
| 90 | 180 | 250 | 67 | 50 |
| 110 | 180 | 250 | 88 | 74 |
| *140 | 180 | 250 | 113 | 97 |
| 160 | 180 | 250 | 139 | 123 |
| 225 | 180 | 250 | 178 | 169 |

# ABS

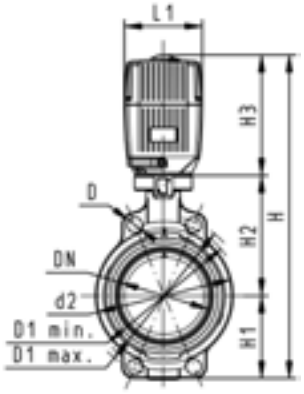
## Butterfly valve type 140 ABS 24V
## Without manual override

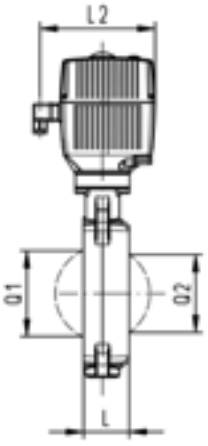
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 542** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 140 543** | |
| 90 | 80 | 3 | 10 | 3000 | **199 140 544** | 4.359 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 545** | 4.895 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 546** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 547** | 6.218 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 548** | 12.029 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 |
| *75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *63 | 40 | |
| *75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| *140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

# ABS

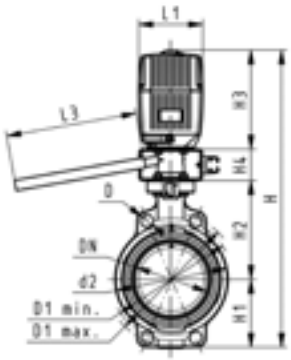
## Butterfly valve type 140 ABS 24V
## With manual override

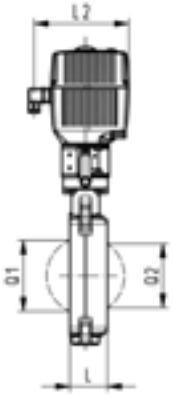
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 140 522** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 140 523** | |
| 90 | 80 | 3 | 10 | 3000 | **199 140 524** | 5.859 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 525** | 6.395 |
| *140 | 125 | 5 | 10 | 11500 | **199 140 526** | |
| 160 | 150 | 6 | 10 | 16600 | **199 140 527** | 7.718 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 528** | 13.529 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 |
| *75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 |
| *140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 |

| d [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 180 | 250 | 40 | |
| *75 | 180 | 250 | 54 | 35 |
| 90 | 180 | 250 | 67 | 50 |
| 110 | 180 | 250 | 88 | 74 |
| *140 | 180 | 250 | 113 | 97 |
| 160 | 180 | 250 | 139 | 123 |
| 225 | 180 | 250 | 178 | 169 |

# ABS

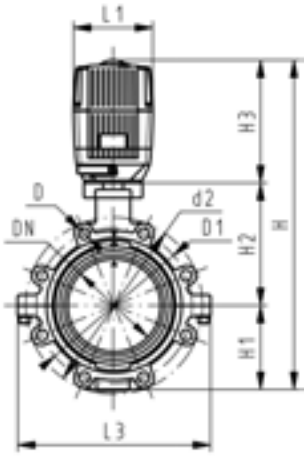
## Butterfly valve type 141 ABS 100-230V Without manual override

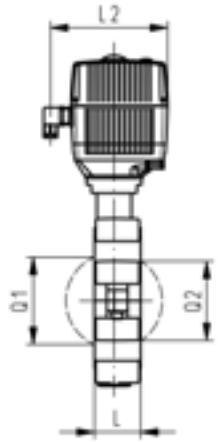
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 502** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 141 503** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 504** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 505** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 506** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 507** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 508** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| *75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| *140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| *63 | |
| *75 | 35 |
| 90 | 50 |
| 110 | 74 |
| *140 | 97 |
| 160 | 123 |
| 225 | 169 |

# ABS

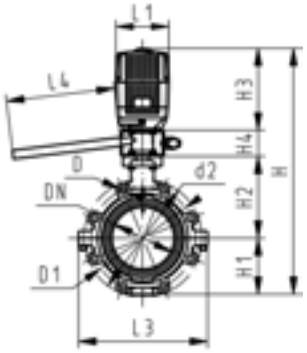
## Butterfly valve type 141 ABS 100-230V With manual override

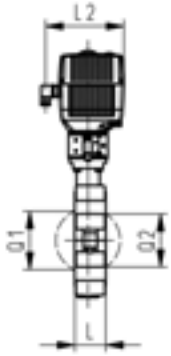
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 482** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 141 483** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 484** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 485** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 486** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 487** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 488** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| *75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| *140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| d [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 200 | 40 | |
| *75 | 200 | 54 | 35 |
| 90 | 200 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| *140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

# ABS

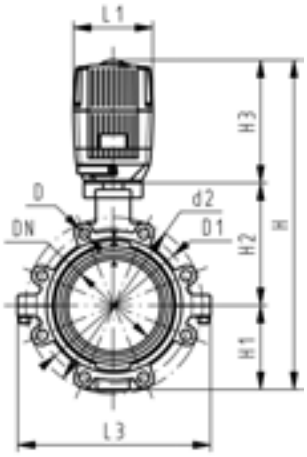
## Butterfly valve type 141 ABS 24V
## Without manual override

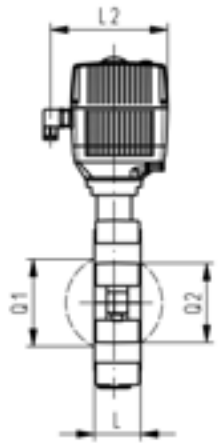
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 542** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 141 543** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 544** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 545** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 546** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 547** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 548** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| *75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| *140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| *63 | |
| *75 | 35 |
| 90 | 50 |
| 110 | 74 |
| *140 | 97 |
| 160 | 123 |
| 225 | 169 |

# ABS

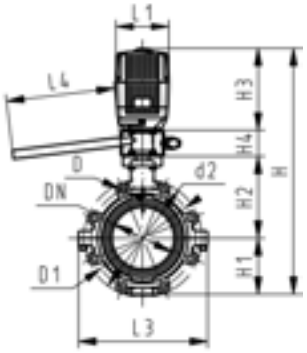
## Butterfly valve type 141 ABS 24V
## With manual override

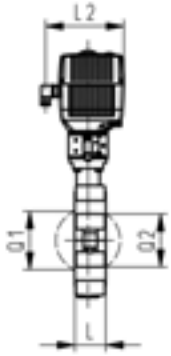
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 141 522** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 141 523** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 524** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 525** |
| *140 | 125 | 5 | 10 | 11500 | **199 141 526** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 527** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 528** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| *75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| *140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| d [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 200 | 40 | |
| *75 | 200 | 54 | 35 |
| 90 | 200 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| *140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

# ABS

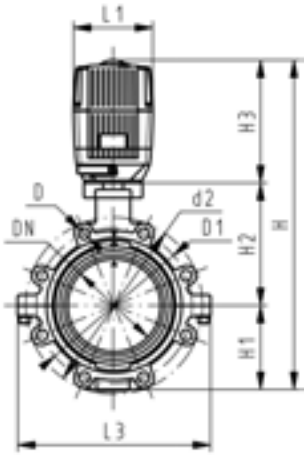
## Butterfly valve type 142 ABS 100-230V Without manual override

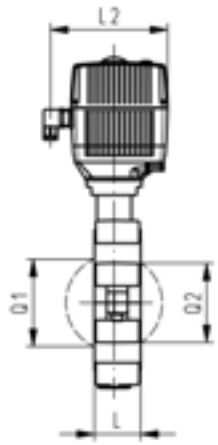
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 502** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 142 503** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 504** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 505** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 506** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 507** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 508** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 |
| *2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 |

| Inch | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *2 | 40 | |
| *2 ½ | 54 | 35 |
| 3 | 67 | 50 |
| 4 | 88 | 74 |
| *5 | 113 | 97 |
| 6 | 139 | 123 |
| 8 | 178 | 169 |

# ABS

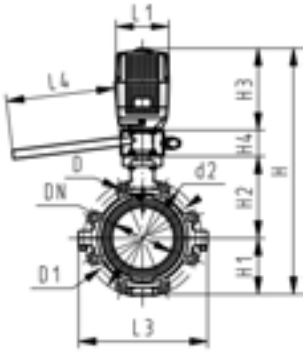
## Butterfly valve type 142 ABS 100-230V With manual override

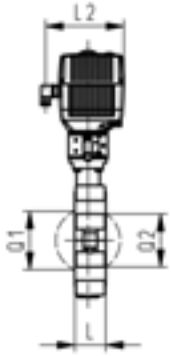
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 482** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 142 483** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 484** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 485** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 486** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 487** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 488** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| *2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

| Inch | L3 [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 150 | 200 | 40 | |
| *2 ½ | 160 | 200 | 54 | 35 |
| 3 | 175 | 200 | 67 | 50 |
| 4 | 244 | 250 | 88 | 74 |
| *5 | 272 | 250 | 113 | 97 |
| 6 | 297 | 250 | 139 | 123 |
| 8 | 360 | 250 | 178 | 169 |

# ABS

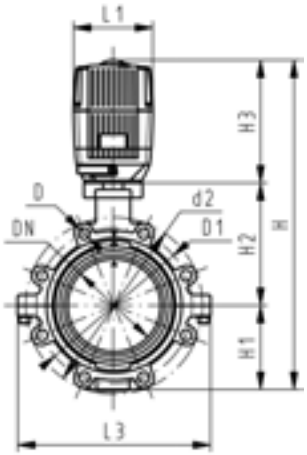
## Butterfly valve type 142 ABS 24V
## Without manual override

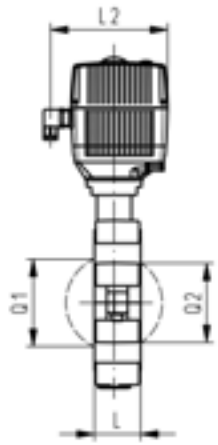
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 542** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 142 543** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 544** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 545** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 546** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 547** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 548** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 |
| *2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 |

| Inch | Q1 [mm] | Q2 [mm] |
|---|---|---|
| *2 | 40 | |
| *2 ½ | 54 | 35 |
| 3 | 67 | 50 |
| 4 | 88 | 74 |
| *5 | 113 | 97 |
| 6 | 139 | 123 |
| 8 | 178 | 169 |

# ABS

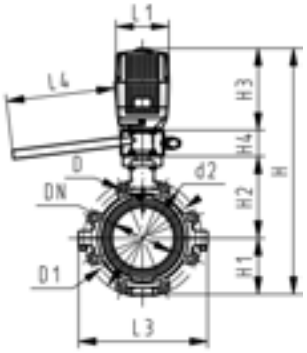
## Butterfly valve type 142 ABS 24V
## With manual override

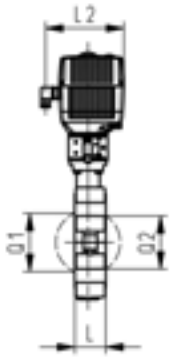
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 142 522** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 142 523** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 524** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 525** |
| *5 | 125 | 140 | 10 | 11500 | **199 142 526** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 527** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 528** |

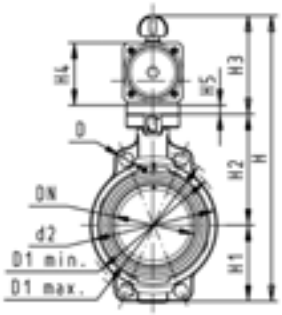
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| *2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| *5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

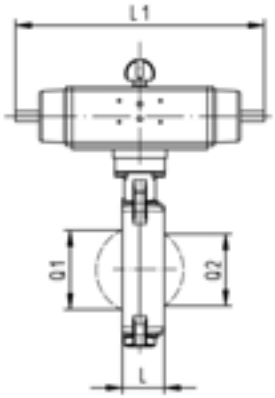
| Inch | L3 [mm] | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 150 | 200 | 40 | |
| *2 ½ | 160 | 200 | 54 | 35 |
| 3 | 175 | 200 | 67 | 50 |
| 4 | 244 | 250 | 88 | 74 |
| *5 | 272 | 250 | 113 | 97 |
| 6 | 297 | 250 | 139 | 123 |
| 8 | 360 | 250 | 178 | 169 |

# ABS

# Butterfly valves pneumatic

## Butterfly valve type 240 ABS
## FC (Fail safe to close)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 402** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 240 403** | 3.100 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 404** | 3.399 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 405** | 5.133 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 406** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 407** | 9.779 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 408** | 13.529 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FC | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 |
| *75 | PA-30 FC | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 |
| 90 | PA-35 FC | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 |
| 110 | PA-40 FC | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 |
| *140 | PA-45 FC | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 |
| 160 | PA-50 FC | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 |
| 225 | PA-55 FC | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 276 | 65 | 36 | |
| *75 | 276 | 65 | 51 | 31 |
| 90 | 326 | 72 | 64 | 46 |
| 110 | 370 | 80 | 84 | 70 |
| *140 | 411 | 90 | 111 | 94 |
| 160 | 423 | 100 | 136 | 122 |
| 225 | 452 | 112 | 176 | 166 |

# ABS

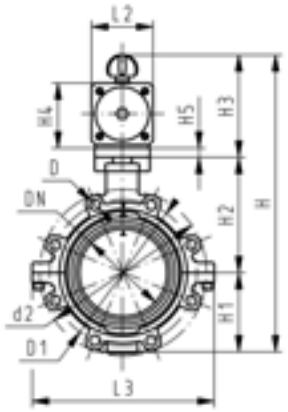
## Butterfly valve type 241 ABS
## FC (Fail safe to close)
## Without manual override

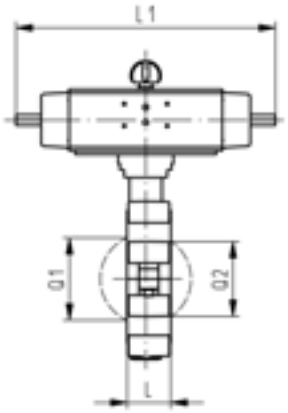
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 402** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 241 403** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 404** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 405** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 406** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 407** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 408** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FC | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| *75 | PA-30 FC | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 90 | PA-35 FC | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 110 | PA-40 FC | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| *140 | PA-45 FC | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 160 | PA-50 FC | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 225 | PA-55 FC | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| *75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# ABS

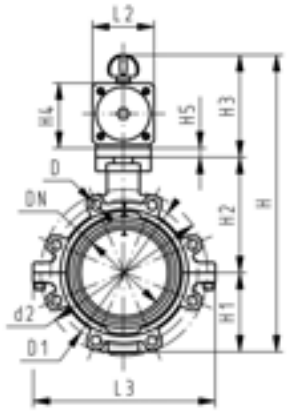
## Butterfly valve type 242 ABS
## FC (Fail safe to close)
## Without manual override

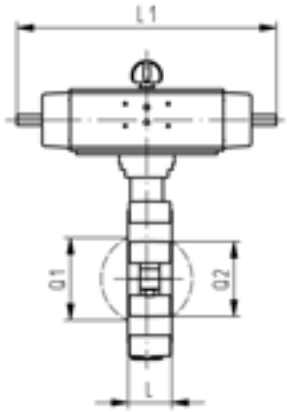
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request



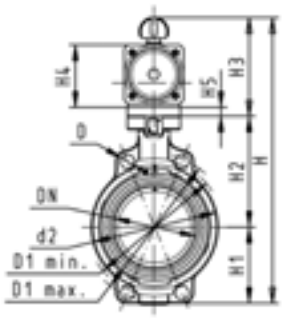

| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 402** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 242 403** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 404** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 405** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 406** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 407** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 408** |

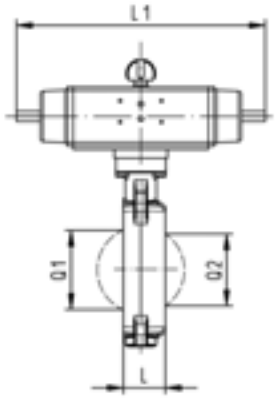
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-30 FC | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| *2 ½ | PA-30 FC | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 3 | PA-35 FC | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 4 | PA-40 FC | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| *5 | PA-45 FC | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 6 | PA-50 FC | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 8 | PA-55 FC | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 65 | 150 | 40 | |
| *2 ½ | 65 | 160 | 54 | 35 |
| 3 | 72 | 175 | 67 | 50 |
| 4 | 80 | 244 | 88 | 74 |
| *5 | 90 | 272 | 113 | 97 |
| 6 | 100 | 297 | 139 | 123 |
| 8 | 112 | 360 | 178 | 169 |

# ABS

## Butterfly valve type 240 ABS
## FO (Fail safe to open)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 422** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 240 423** | |
| 90 | 80 | 3 | 10 | 3000 | **199 240 424** | 3.399 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 425** | 5.133 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 426** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 427** | 9.779 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 428** | 13.529 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FO | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 |
| *75 | PA-30 FO | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 |
| 90 | PA-35 FO | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 |
| 110 | PA-40 FO | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 |
| *140 | PA-45 FO | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 |
| 160 | PA-50 FO | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 |
| 225 | PA-55 FO | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 276 | 65 | 36 | |
| *75 | 276 | 65 | 51 | 31 |
| 90 | 326 | 72 | 64 | 46 |
| 110 | 370 | 80 | 84 | 70 |
| *140 | 411 | 90 | 111 | 94 |
| 160 | 423 | 100 | 136 | 122 |
| 225 | 452 | 112 | 176 | 166 |

# ABS

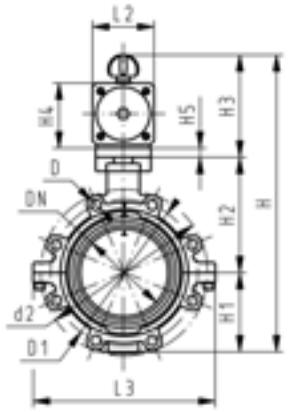
## Butterfly valve type 241 ABS
## FO (Fail safe to open)
## Without manual override

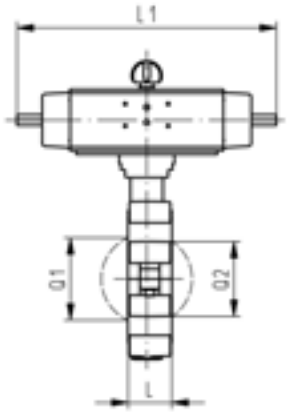
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 422** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 241 423** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 424** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 425** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 426** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 427** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 428** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-30 FO | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| *75 | PA-30 FO | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 90 | PA-35 FO | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 110 | PA-40 FO | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| *140 | PA-45 FO | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 160 | PA-50 FO | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 225 | PA-55 FO | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| *75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# ABS

## Butterfly valve type 242 ABS
## FO (Fail safe to open)
## Without manual override

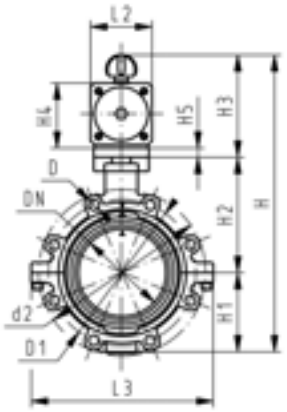
New

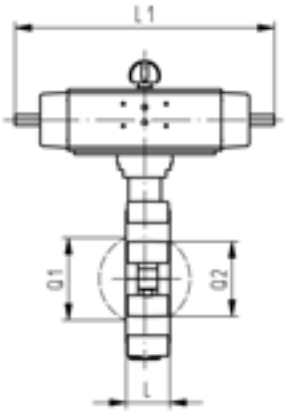
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 422** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 242 423** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 424** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 425** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 426** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 427** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 428** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-30 FO | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| *2 ½ | PA-30 FO | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 3 | PA-35 FO | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 4 | PA-40 FO | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| *5 | PA-45 FO | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 6 | PA-50 FO | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 8 | PA-55 FO | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 65 | 150 | 40 | |
| *2 ½ | 65 | 160 | 54 | 35 |
| 3 | 72 | 175 | 67 | 50 |
| 4 | 80 | 244 | 88 | 74 |
| *5 | 90 | 272 | 113 | 97 |
| 6 | 100 | 297 | 139 | 123 |
| 8 | 112 | 360 | 178 | 169 |

# ABS

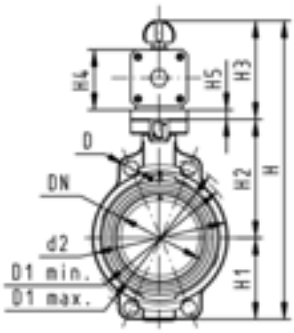
## Butterfly valve type 240 ABS
## DA (Double acting)
## Without manual override

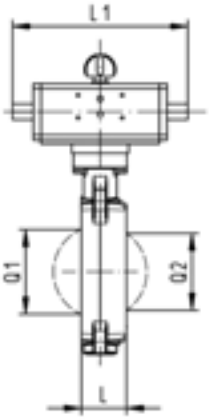
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 240 442** | |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 240 443** | |
| 90 | 80 | 3 | 10 | 3000 | **199 240 444** | 2.730 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 445** | 3.385 |
| *140 | 125 | 5 | 10 | 11500 | **199 240 446** | |
| 160 | 150 | 6 | 10 | 16600 | **199 240 447** | 6.258 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 448** | 7.529 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-35 DA | 19 | 120.0 | 125.0 | 104 | 317 | 77 | 134 | 107 | 60 | 15 | 45 |
| *75 | PA-35 DA | 19 | 139.7 | 145.0 | 115 | 330 | 83 | 140 | 107 | 60 | 15 | 46 |
| 90 | PA-40 DA | 19 | 150.0 | 160.0 | 131 | 348 | 89 | 146 | 113 | 66 | 15 | 49 |
| 110 | PA-45 DA | 19 | 175.0 | 190.5 | 161 | 372 | 104 | 167 | 102 | 71 | | 56 |
| *140 | PA-45 DA | 23 | 210.0 | 215.9 | 187 | 408 | 117 | 181 | 111 | 78 | | 64 |
| 160 | PA-55 DA | 24 | 241.3 | 241.3 | 215 | 448 | 130 | 189 | 129 | 86 | | 72 |
| 225 | PA-55 DA | 23 | 290.0 | 295.0 | 267 | 507 | 158 | 210 | 139 | 96 | | 73 |

| d [mm] | L1 [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *63 | 177 | 55 | 36 | |
| *75 | 177 | 55 | 51 | 31 |
| 90 | 190 | 60 | 64 | 46 |
| 110 | 198 | 65 | 84 | 70 |
| *140 | 235 | 72 | 111 | 94 |
| 160 | 250 | 80 | 136 | 122 |
| 225 | 279 | 90 | 176 | 166 |

# ABS

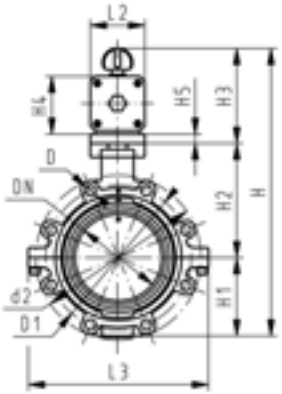
## Butterfly valve type 241 ABS
## DA (Double acting)
## Without manual override

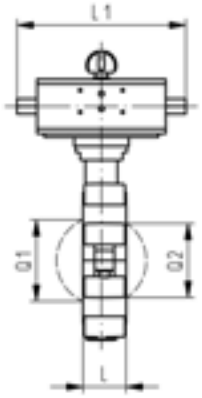
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *63 | 50 | 2 | 10 | 1470 | **199 241 442** |
| *75 | 65 | 2 ½ | 10 | 2200 | **199 241 443** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 444** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 445** |
| *140 | 125 | 5 | 10 | 11500 | **199 241 446** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 447** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 448** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *63 | PA-35 DA | M16 | 125 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 |
| *75 | PA-35 DA | M16 | 145 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 |
| 90 | PA-40 DA | M16 | 160 | 184 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 |
| 110 | PA-45 DA | M16 | 180 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 |
| *140 | PA-45 DA | M16 | 210 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 |
| 160 | PA-55 DA | M20 | 240 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 |
| 225 | PA-55 DA | M20 | 295 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 |

| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| *63 | 150 | 40 | |
| *75 | 160 | 54 | 35 |
| 90 | 205 | 67 | 50 |
| 110 | 244 | 88 | 74 |
| *140 | 272 | 113 | 97 |
| 160 | 297 | 139 | 123 |
| 225 | 360 | 178 | 169 |

# ABS

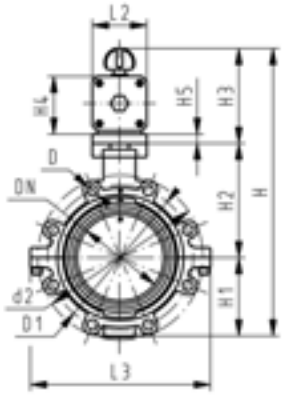
## Butterfly valve type 242 ABS
## DA (Double acting)
## Without manual override

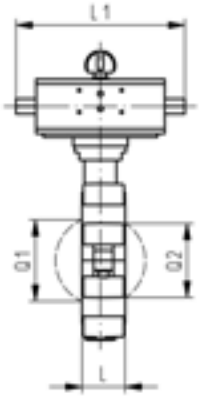
**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

**Note:**

- * Available on request




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code |
|---|---|---|---|---|---|
| *2 | 50 | 63 | 10 | 1470 | **199 242 442** |
| *2 ½ | 65 | 75 | 10 | 2200 | **199 242 443** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 444** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 445** |
| *5 | 125 | 140 | 10 | 11500 | **199 242 446** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 447** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 448** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *2 | PA-35 DA | UNC 5/8 | 121 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 |
| *2 ½ | PA-35 DA | UNC 5/8 | 140 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 |
| 3 | PA-40 DA | UNC 5/8 | 153 | 177 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 |
| 4 | PA-45 DA | UNC 5/8 | 191 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 |
| *5 | PA-45 DA | UNC 3/4 | 216 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 |
| 6 | PA-55 DA | UNC 3/4 | 242 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 |
| 8 | PA-55 DA | UNC 3/4 | 299 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 |

| Inch | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|
| *2 | 55 | 150 | 40 | |
| *2 ½ | 55 | 160 | 54 | 35 |
| 3 | 60 | 175 | 67 | 50 |
| 4 | 65 | 244 | 88 | 74 |
| *5 | 72 | 272 | 113 | 97 |
| 6 | 80 | 297 | 139 | 123 |
| 8 | 90 | 360 | 178 | 169 |

# Notes

# PP-H metric


| | | Page |
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| | Ball valves electric | 334 |
| | Ball valves pneumatic | 356 |
| | Diaphragm valves pneumatic | 385 |
| | Butterfly valves electric | 412 |
| | Butterfly valves pneumatic | 424 |
| | Process control valves | 433 |

# PP-H metric

# Ball valves electric

## Ball valve type 131 PP-H 100-230V
## With manual emergency override
## With fusion sockets metric

**Model:**

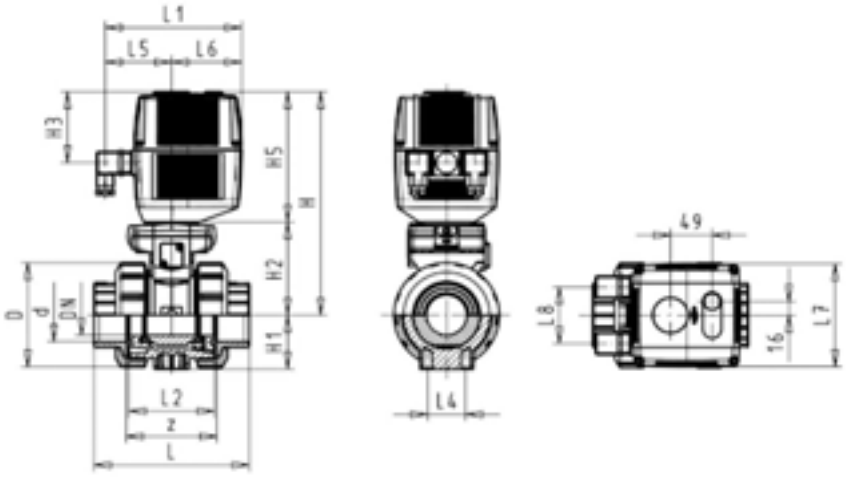
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 131 002** | **199 131 012** | 2.100 | |
| 20 | 15 | 10 | 185 | **199 131 003** | **199 131 013** | 2.100 | |
| 25 | 20 | 10 | 350 | **199 131 004** | **199 131 014** | 2.200 | |
| 32 | 25 | 10 | 700 | **199 131 005** | **199 131 015** | 2.300 | |
| 40 | 32 | 10 | 1000 | **199 131 006** | **199 131 016** | 2.600 | |
| 50 | 40 | 10 | 1600 | **199 131 007** | **199 131 017** | 3.000 | |
| 63 | 50 | 10 | 3100 | **199 131 008** | **199 131 018** | 3.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 93 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 67 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 108 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 77 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 118 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 83 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 137 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 99 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 147 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 105 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 168 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 117 |



# PP-H metric

## Ball valve type 131 PP-H 100-230V
## With manual emergency override
## With fusion spigots metric

**Model:**

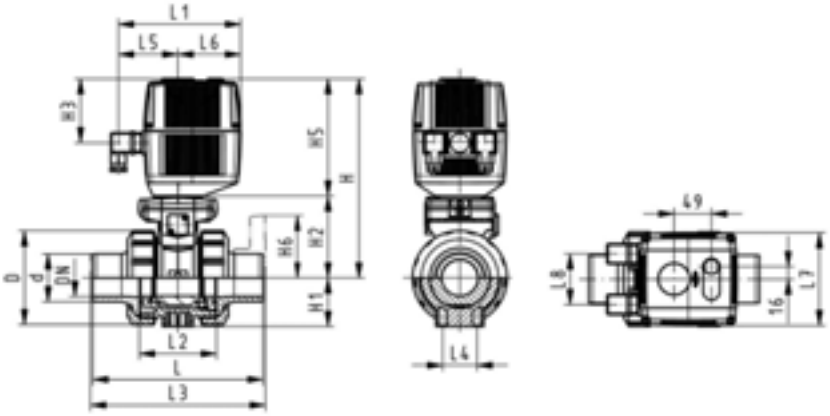
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 131 022** | **199 131 032** | 2.100 |
| 20 | 15 | 10 | 185 | **199 131 023** | **199 131 033** | 2.100 |
| 25 | 20 | 10 | 350 | **199 131 024** | **199 131 034** | 2.200 |
| 32 | 25 | 10 | 700 | **199 131 025** | **199 131 035** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 131 026** | **199 131 036** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 131 027** | **199 131 037** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 131 028** | **199 131 038** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 110 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 120 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 139 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 150 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 170 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 190 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 220 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PP-H metric

## Ball valve type 131 PP-H 100-230V
## With manual emergency override
## With fixed flanges PP-H serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

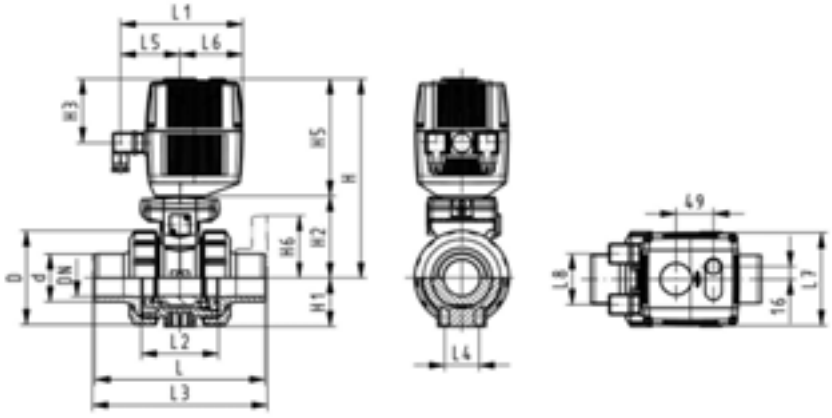
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 131 083** | **199 131 093** | 2.300 | |
| 25 | 20 | ¾ | 10 | 350 | **199 131 084** | **199 131 094** | 2.500 | |
| 32 | 25 | 1 | 10 | 700 | **199 131 085** | **199 131 095** | 2.700 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 131 086** | **199 131 096** | 3.200 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 131 087** | **199 131 097** | 3.700 | |
| 63 | 50 | 2 | 10 | 3100 | **199 131 088** | **199 131 098** | 4.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 120 | 180 | 56 | 130 | 25 | 97 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 140 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 150 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 170 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 190 | 180 | 89 | 200 | 45 | 97 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 165 | 220 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# PP-H metric

## Ball valve type 131 PP-H 24V
## With manual emergency override
## With fusion sockets metric

**Model:**

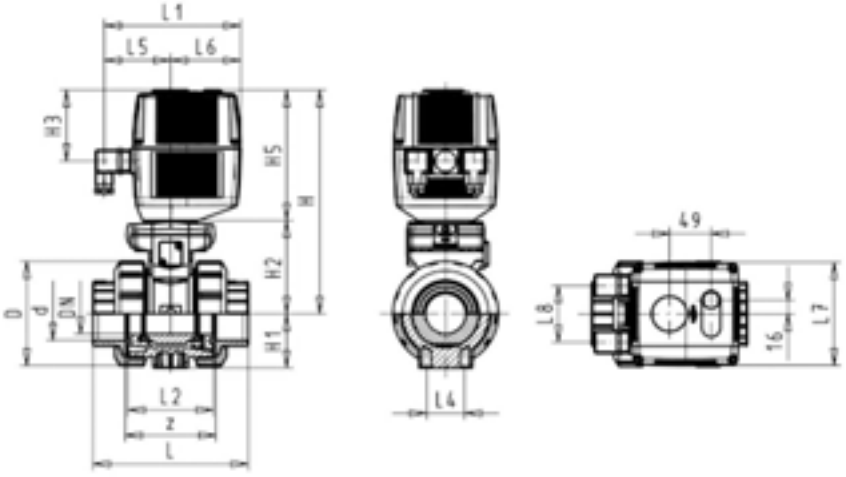
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 131 042** | **199 131 052** | 2.100 |
| 20 | 15 | 10 | 185 | **199 131 043** | **199 131 053** | 2.100 |
| 25 | 20 | 10 | 350 | **199 131 044** | **199 131 054** | 2.200 |
| 32 | 25 | 10 | 700 | **199 131 045** | **199 131 055** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 131 046** | **199 131 056** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 131 047** | **199 131 057** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 131 048** | **199 131 058** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 93 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 67 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 108 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 77 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 118 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 83 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 137 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 99 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 147 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 105 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 168 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 117 |



# PP-H metric

## Ball valve type 131 PP-H 24V
## With manual emergency override
## With fusion spigots metric

**Model:**

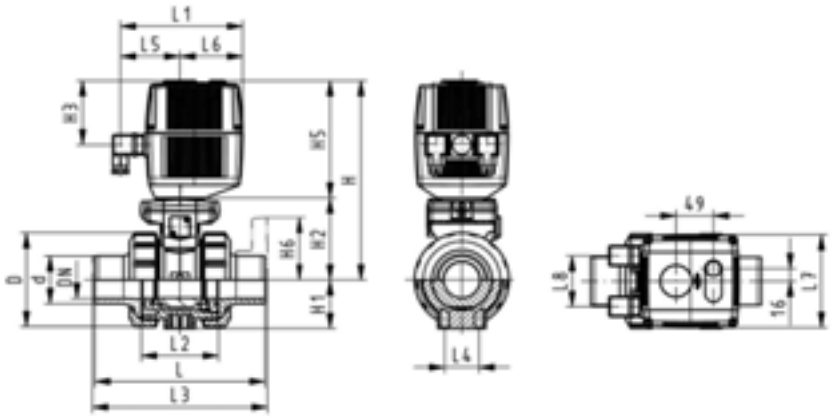
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 131 062** | **199 131 072** | 2.100 |
| 20 | 15 | 10 | 185 | **199 131 063** | **199 131 073** | 2.100 |
| 25 | 20 | 10 | 350 | **199 131 064** | **199 131 074** | 2.200 |
| 32 | 25 | 10 | 700 | **199 131 065** | **199 131 075** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 131 066** | **199 131 076** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 131 067** | **199 131 077** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 131 068** | **199 131 078** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 110 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 120 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 139 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 150 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 170 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 190 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 220 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# PP-H metric

## Ball valve type 131 PP-H 24V
## With manual emergency override
## With fixed flanges PP-H serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

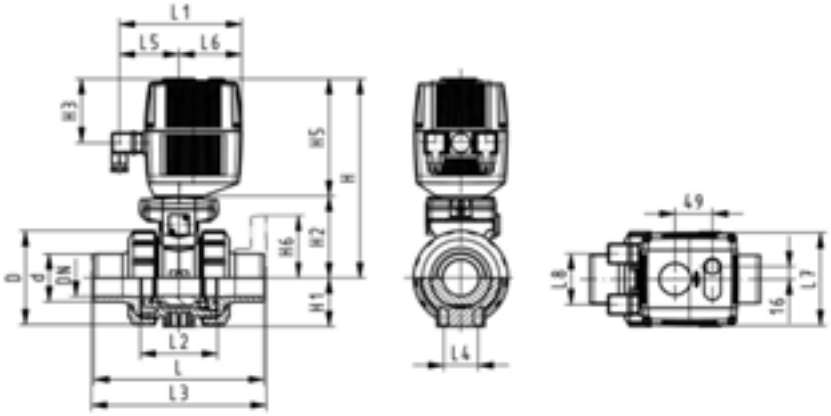
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 131 103** | **199 131 113** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 131 104** | **199 131 114** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 131 105** | **199 131 115** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 131 106** | **199 131 116** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 131 107** | **199 131 117** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 131 108** | **199 131 118** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 120 | 180 | 56 | 130 | 25 | 97 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 140 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 150 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 170 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 190 | 180 | 89 | 200 | 45 | 97 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 165 | 220 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# PP-H metric

## Ball valve type 107 PP-H 100-230V
## With manual emergency override
## With fusion sockets metric

**Model:**

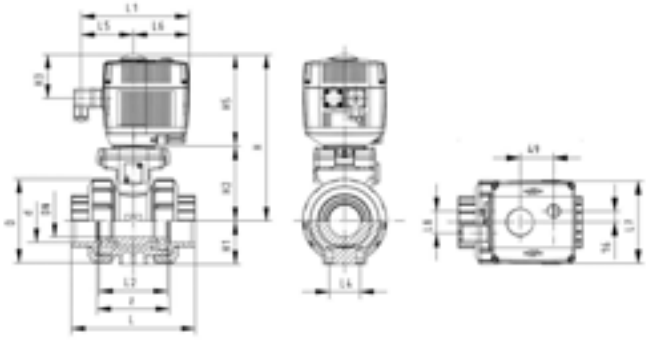
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 502** | **199 107 512** | 2.100 | |
| 20 | 15 | 10 | 185 | **199 107 503** | **199 107 513** | 2.100 | |
| 25 | 20 | 10 | 350 | **199 107 504** | **199 107 514** | 2.200 | |
| 32 | 25 | 10 | 700 | **199 107 505** | **199 107 515** | 2.300 | |
| 40 | 32 | 10 | 1000 | **199 107 506** | **199 107 516** | 2.600 | |
| 50 | 40 | 10 | 1600 | **199 107 507** | **199 107 517** | 3.000 | |
| 63 | 50 | 10 | 3100 | **199 107 508** | **199 107 518** | 3.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 93 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 67 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 66 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 108 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 77 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 118 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 83 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 137 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 99 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 147 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 105 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 168 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 117 |



# PP-H metric

## Ball valve type 107 PP-H 100-230V
## With manual emergency override
## With fusion spigots metric

**Model:**

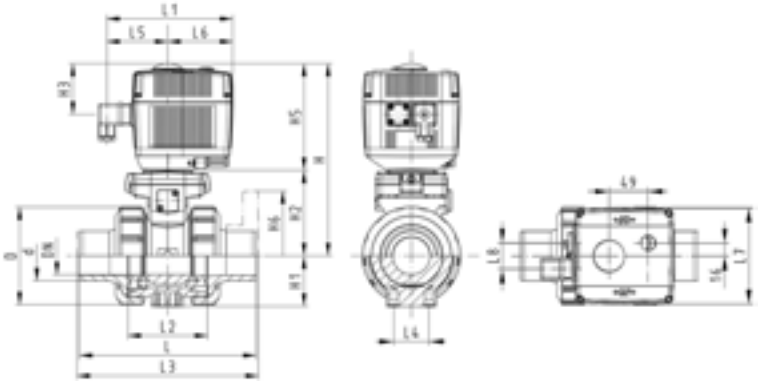
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 522** | **199 107 532** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 523** | **199 107 533** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 524** | **199 107 534** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 525** | **199 107 535** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 526** | **199 107 536** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 527** | **199 107 537** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 528** | **199 107 538** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 110 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 120 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 139 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 150 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 170 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 190 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 220 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



# PP-H metric

## Ball valve type 107 PP-H 100-230V
## With manual emergency override
## With fixed flanges PP-H serrated metric

**Model:**

- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

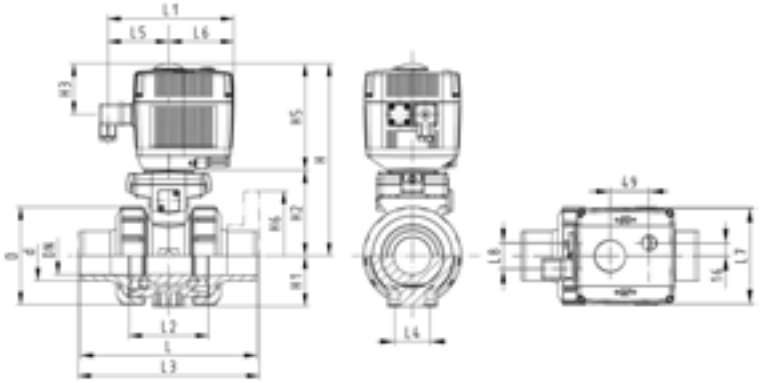
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 583** | **199 107 593** | 2.300 | |
| 25 | 20 | ¾ | 10 | 350 | **199 107 584** | **199 107 594** | 2.500 | |
| 32 | 25 | 1 | 10 | 700 | **199 107 585** | **199 107 595** | 2.700 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 586** | **199 107 596** | 3.200 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 587** | **199 107 597** | 3.700 | |
| 63 | 50 | 2 | 10 | 3100 | **199 107 588** | **199 107 598** | 4.800 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 48 | 120 | 161 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 53 | 140 | 161 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 58 | 150 | 161 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 70 | 170 | 161 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 75 | 190 | 161 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 165 | 220 | 161 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# PP-H metric

## Ball valve type 107 PP-H 24V
## With manual emergency override
## With fusion sockets metric

**Model:**

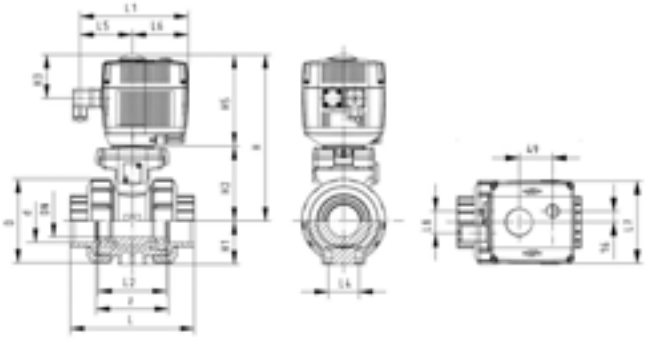
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 542** | **199 107 552** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 543** | **199 107 553** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 544** | **199 107 554** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 545** | **199 107 555** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 546** | **199 107 556** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 547** | **199 107 557** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 548** | **199 107 558** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 93 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 67 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 77 | 83 | 122 | 33 | 66 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 108 | 161 | 65 | 25 | 77 | 83 | 122 | 33 | 77 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 118 | 161 | 71 | 25 | 77 | 83 | 122 | 33 | 83 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 137 | 161 | 85 | 45 | 77 | 83 | 122 | 33 | 99 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 147 | 161 | 89 | 45 | 77 | 83 | 122 | 33 | 105 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 168 | 161 | 101 | 45 | 77 | 83 | 122 | 33 | 117 |



# PP-H metric

## Ball valve type 107 PP-H 24V
## With manual emergency override
## With fusion spigots metric

**Model:**

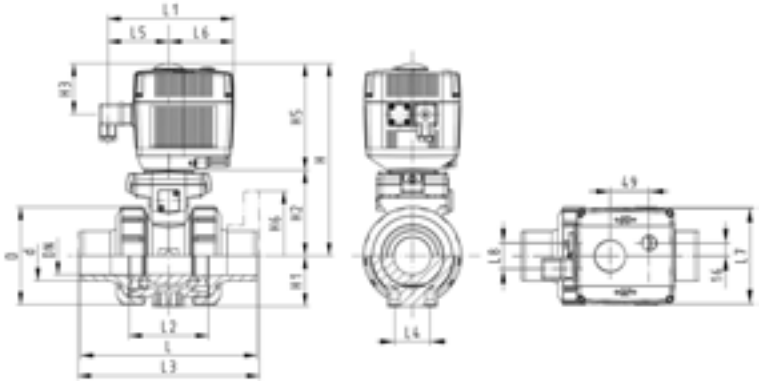
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 562** | **199 107 572** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 563** | **199 107 573** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 564** | **199 107 574** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 565** | **199 107 575** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 566** | **199 107 576** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 567** | **199 107 577** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 568** | **199 107 578** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 110 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 120 | 161 | 56 | 130 | 25 | 77 | 83 | 122 | 33 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 139 | 161 | 65 | 150 | 25 | 77 | 83 | 122 | 33 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 156 | 161 | 71 | 160 | 25 | 77 | 83 | 122 | 33 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 170 | 161 | 85 | 180 | 45 | 77 | 83 | 122 | 33 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 190 | 161 | 89 | 200 | 45 | 77 | 83 | 122 | 33 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 220 | 161 | 101 | 230 | 45 | 77 | 83 | 122 | 33 |



# PP-H metric

## Ball valve type 107 PP-H 24V
## With manual emergency override
## With fixed flanges PP-H serrated metric

**Model:**

- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

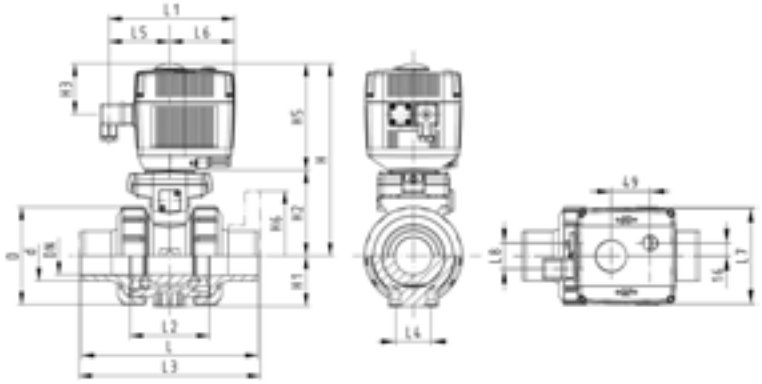
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 783** | **199 107 793** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 107 784** | **199 107 794** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 107 785** | **199 107 795** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 786** | **199 107 796** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 787** | **199 107 797** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 107 788** | **199 107 798** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 48 | 120 | 161 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 53 | 140 | 161 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 58 | 150 | 161 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 70 | 170 | 161 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 75 | 190 | 161 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 165 | 220 | 161 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# PP-H metric

## Ball valve type 108 PP-H 100-230V
## With manual override
## With flanges PP-V metric

**Model:**

- For easy installation and removal
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Overall length according to EN 558-1

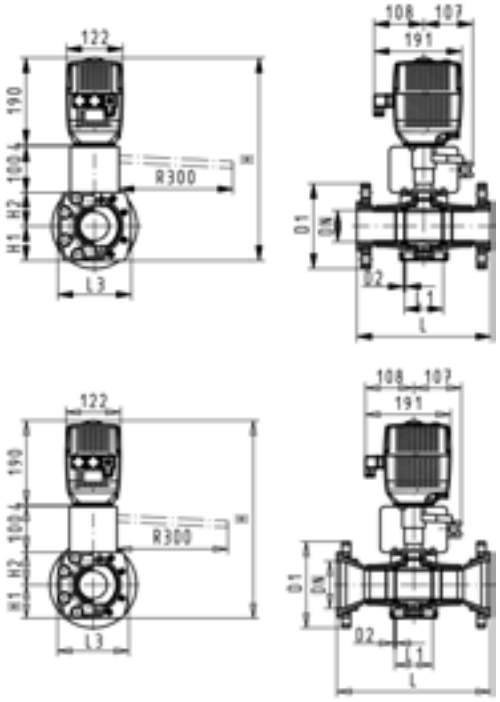
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | EA 31 | **199 108 566** | **199 108 576** | 9.600 | |
| 90 | 80 | 3 | 10 | 7000 | EA 31 | **199 108 567** | **199 108 577** | 11.100 | |
| 110 | 100 | 4 | 10 | 11000 | EA 31 | **199 108 563** | **199 108 573** | 19.200 | |
| 160 | 150 | 6 | 10 | 16000 | EA 31 | **199 108 565** | **199 108 575** | 21.600 | |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 | |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 | |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 | |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 | |



# PP-H metric

## Ball valve type 108 PP-H 24V
## With manual override
## With flanges PP-V metric

**Model:**

- For easy installation and removal
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control range 90°<)
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Overall length according to EN 558-1

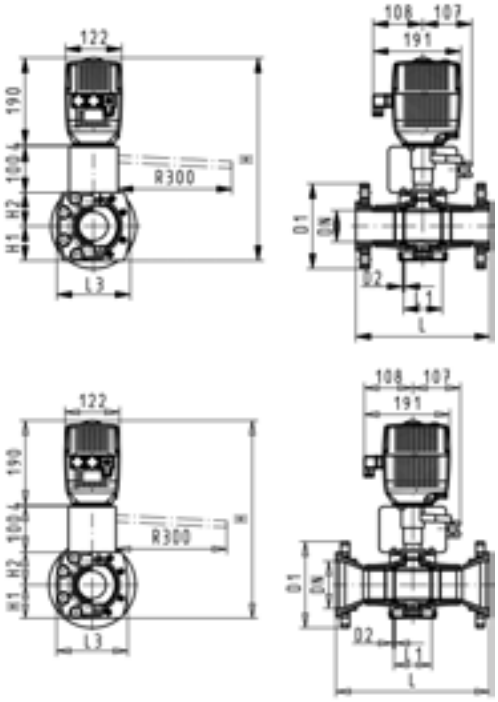
**Note:**

- **Product will be replaced by type 138 DN65-100 in the 4. quarter 2006.**

**From March 2006 every ball valve type 108 will be equipped with EA31.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Type | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | EA 31 | **199 108 606** | **199 108 616** | 9.600 |
| 90 | 80 | 3 | 10 | 7000 | EA 31 | **199 108 607** | **199 108 617** | 11.100 |
| 110 | 100 | 4 | 10 | 11000 | EA 31 | **199 108 603** | **199 108 613** | 19.200 |
| 160 | 150 | 6 | 10 | 16000 | EA 31 | **199 108 605** | **199 108 615** | 21.600 |

| d [mm] | D1 [mm] | D2 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 185 | 10 | 290 | 84 | 160 | 442 | 75 | 73 |
| 90 | 200 | 10 | 310 | 102 | 188 | 470 | 88 | 88 |
| 110 | 220 | 12 | 350 | 122 | 225 | 517 | 110 | 113 |
| 160 | 285 | 12 | 480 | 122 | 225 | 517 | 110 | 113 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/L-port 100-230V
## With manual emergency override
## With fusion sockets metric

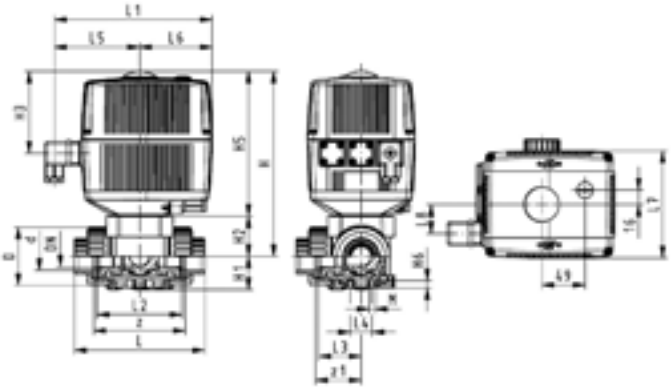
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 176 022** | **199 176 032** | 2.051 |
| 20 | 15 | 10 | 75 | **199 176 023** | **199 176 033** | 2.051 |
| 25 | 20 | 10 | 150 | **199 176 024** | **199 176 034** | 2.174 |
| 32 | 25 | 10 | 280 | **199 176 025** | **199 176 035** | 2.297 |
| 40 | 32 | 10 | 480 | **199 176 026** | **199 176 036** | 2.522 |
| 50 | 40 | 10 | 620 | **199 176 027** | **199 176 037** | 2.886 |
| 63 | 50 | 10 | 1230 | **199 176 028** | **199 176 038** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 177 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 205 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 261 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 78 | 39 |
| 20 | 33 | 6 | 79 | 40 |
| 25 | 33 | 6 | 95 | 48 |
| 32 | 33 | 6 | 108 | 54 |
| 40 | 33 | 8 | 133 | 67 |
| 50 | 33 | 8 | 155 | 78 |
| 63 | 33 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/L-port 100-230V
## With manual emergency override
## With butt fusion spigots metric

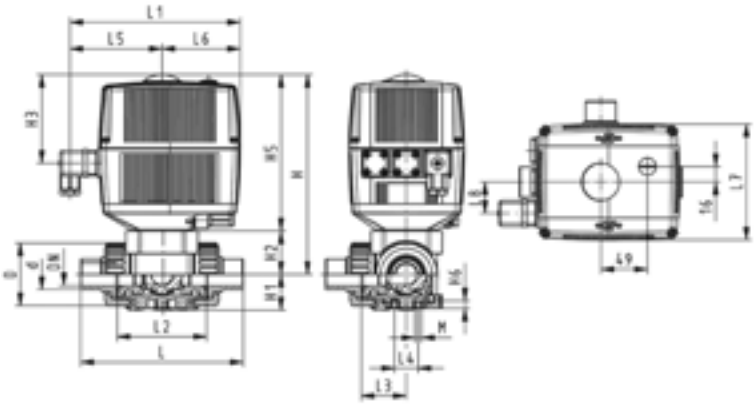
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 75 | **199 176 083** | **199 176 093** | 2.051 |
| 25 | 20 | 10 | 150 | **199 176 084** | **199 176 094** | 2.174 |
| 32 | 25 | 10 | 280 | **199 176 085** | **199 176 095** | 2.297 |
| 40 | 32 | 10 | 480 | **199 176 086** | **199 176 096** | 2.522 |
| 50 | 40 | 10 | 620 | **199 176 087** | **199 176 097** | 2.886 |
| 63 | 50 | 10 | 1230 | **199 176 088** | **199 176 098** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/T-port 100-230V
## With manual emergency override
## With fusion sockets metric

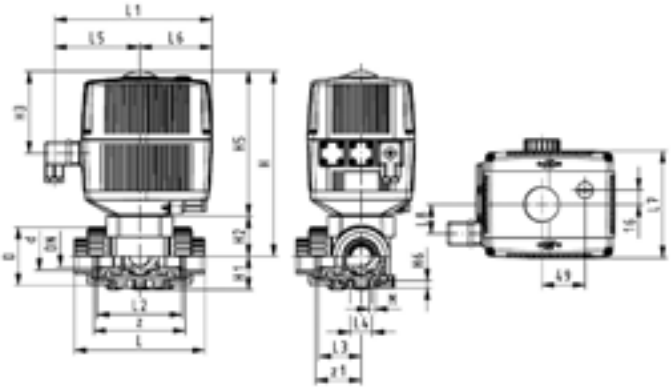
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 176 062** | **199 176 072** | 2.051 |
| 20 | 15 | 10 | 200 | **199 176 063** | **199 176 073** | 2.051 |
| 25 | 20 | 10 | 470 | **199 176 064** | **199 176 074** | 2.174 |
| 32 | 25 | 10 | 793 | **199 176 065** | **199 176 075** | 2.297 |
| 40 | 32 | 10 | 1290 | **199 176 066** | **199 176 076** | 2.522 |
| 50 | 40 | 10 | 1910 | **199 176 067** | **199 176 077** | 2.886 |
| 63 | 50 | 10 | 3100 | **199 176 068** | **199 176 078** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 177 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 205 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 261 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 78 | 39 |
| 20 | 33 | 6 | 79 | 40 |
| 25 | 33 | 6 | 95 | 48 |
| 32 | 33 | 6 | 108 | 54 |
| 40 | 33 | 8 | 133 | 67 |
| 50 | 33 | 8 | 155 | 78 |
| 63 | 33 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/T-port 100-230V
## With manual emergency override
## With butt fusion spigots metric

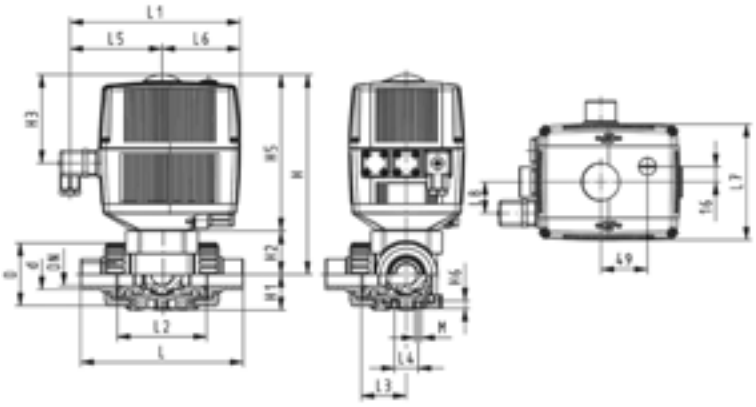
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 200 | **199 176 103** | **199 176 113** | 2.051 |
| 25 | 20 | 10 | 470 | **199 176 104** | **199 176 114** | 2.174 |
| 32 | 25 | 10 | 793 | **199 176 105** | **199 176 115** | 2.297 |
| 40 | 32 | 10 | 1290 | **199 176 106** | **199 176 116** | 2.522 |
| 50 | 40 | 10 | 1910 | **199 176 107** | **199 176 117** | 2.886 |
| 63 | 50 | 10 | 3100 | **199 176 108** | **199 176 118** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/L-port 24V
## With manual emergency override
## With fusion sockets metric

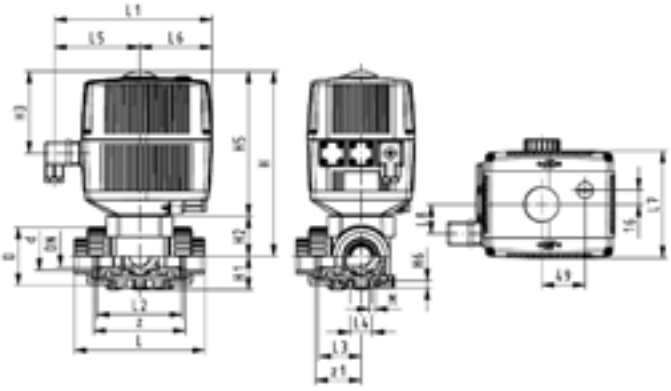
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 176 182** | **199 176 192** | 2.051 |
| 20 | 15 | 10 | 75 | **199 176 183** | **199 176 193** | 2.051 |
| 25 | 20 | 10 | 150 | **199 176 184** | **199 176 194** | 2.174 |
| 32 | 25 | 10 | 280 | **199 176 185** | **199 176 195** | 2.297 |
| 40 | 32 | 10 | 480 | **199 176 186** | **199 176 196** | 2.522 |
| 50 | 40 | 10 | 620 | **199 176 187** | **199 176 197** | 2.886 |
| 63 | 50 | 10 | 1230 | **199 176 188** | **199 176 198** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 177 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 205 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 261 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 78 | 39 |
| 20 | 33 | 6 | 79 | 40 |
| 25 | 33 | 6 | 95 | 48 |
| 32 | 33 | 6 | 108 | 54 |
| 40 | 33 | 8 | 133 | 67 |
| 50 | 33 | 8 | 155 | 78 |
| 63 | 33 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/L-port 24V
## With manual emergency override
## With butt fusion spigots metric

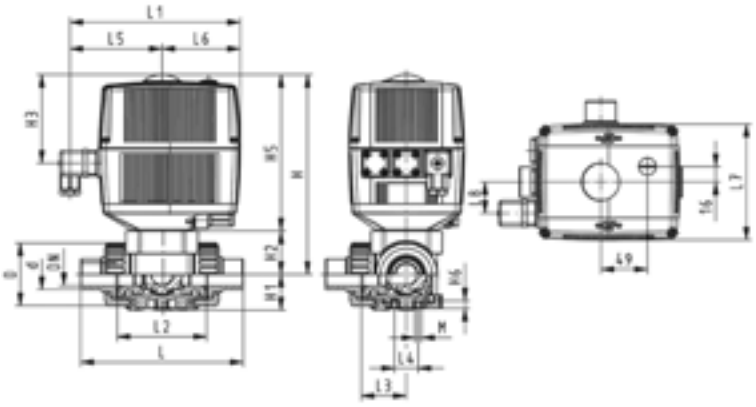
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 75 | **199 176 243** | **199 176 253** | 2.051 |
| 25 | 20 | 10 | 150 | **199 176 244** | **199 176 254** | 2.174 |
| 32 | 25 | 10 | 280 | **199 176 245** | **199 176 255** | 2.297 |
| 40 | 32 | 10 | 480 | **199 176 246** | **199 176 256** | 2.522 |
| 50 | 40 | 10 | 620 | **199 176 247** | **199 176 257** | 2.886 |
| 63 | 50 | 10 | 1230 | **199 176 248** | **199 176 258** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/T-port 24V
## With manual emergency override
## With fusion sockets metric

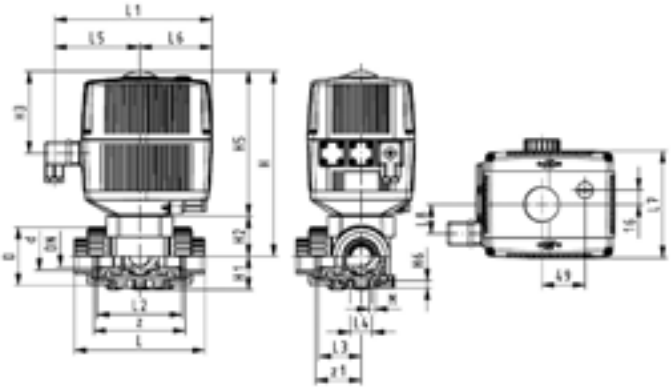
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 176 222** | **199 176 232** | 2.051 |
| 20 | 15 | 10 | 200 | **199 176 223** | **199 176 233** | 2.051 |
| 25 | 20 | 10 | 470 | **199 176 224** | **199 176 234** | 2.174 |
| 32 | 25 | 10 | 793 | **199 176 225** | **199 176 235** | 2.297 |
| 40 | 32 | 10 | 1290 | **199 176 226** | **199 176 236** | 2.522 |
| 50 | 40 | 10 | 1910 | **199 176 227** | **199 176 237** | 2.886 |
| 63 | 50 | 10 | 3100 | **199 176 228** | **199 176 238** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 108 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 111 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 131 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 148 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 177 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 205 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 261 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 33 | 6 | 78 | 39 |
| 20 | 33 | 6 | 79 | 40 |
| 25 | 33 | 6 | 95 | 48 |
| 32 | 33 | 6 | 108 | 54 |
| 40 | 33 | 8 | 133 | 67 |
| 50 | 33 | 8 | 155 | 78 |
| 63 | 33 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 176 PP-H
## Horizontal/T-port 24V
## With manual emergency override
## With butt fusion spigots metric

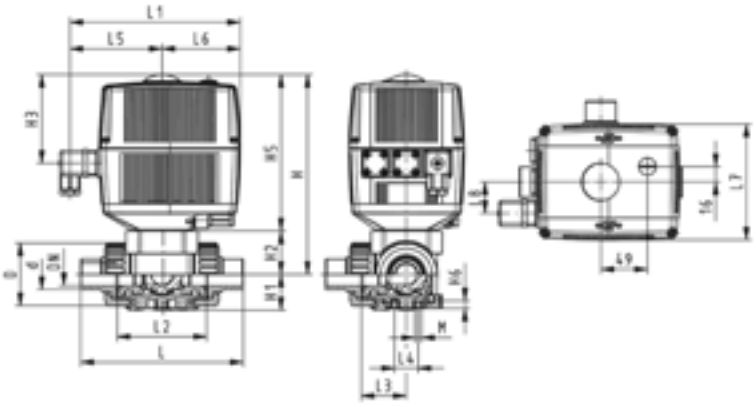
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 200 | **199 176 263** | **199 176 273** | 2.051 |
| 25 | 20 | 10 | 470 | **199 176 264** | **199 176 274** | 2.174 |
| 32 | 25 | 10 | 793 | **199 176 265** | **199 176 275** | 2.297 |
| 40 | 32 | 10 | 1290 | **199 176 266** | **199 176 276** | 2.522 |
| 50 | 40 | 10 | 1910 | **199 176 267** | **199 176 277** | 2.886 |
| 63 | 50 | 10 | 3100 | **199 176 268** | **199 176 278** | 3.818 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# PP-H metric

# Ball valves pneumatic

## Ball valve type 231 PP-H FC (Fail safe to close)
## With manual override
## With fusion sockets metric

**Model:**

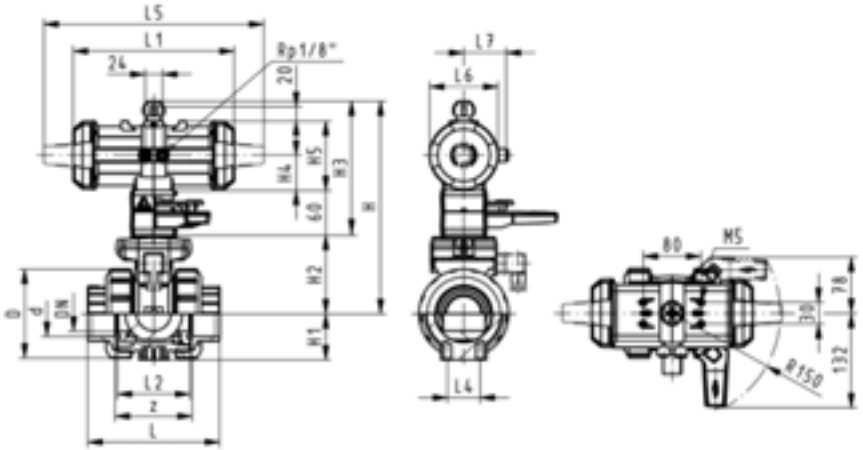
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 002** | **199 231 012** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 003** | **199 231 013** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 004** | **199 231 014** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 005** | **199 231 015** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 006** | **199 231 016** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 007** | **199 231 017** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 008** | **199 231 018** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H FC (Fail safe to close)
## With manual override
## With fusion spigots metric

**Model:**

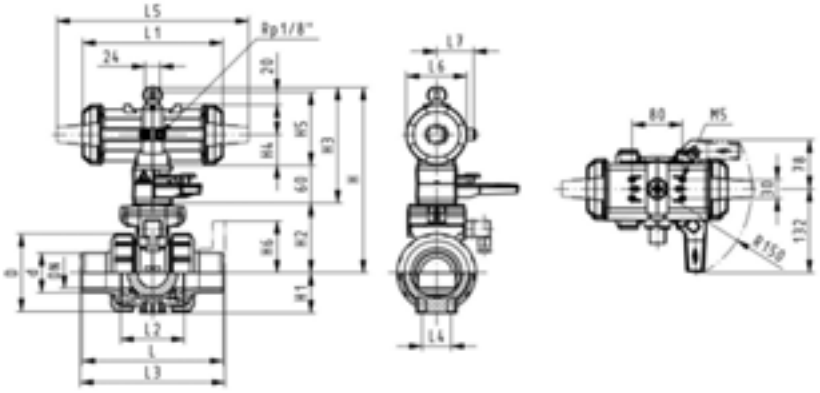
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 022** | **199 231 032** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 023** | **199 231 033** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 024** | **199 231 034** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 025** | **199 231 035** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 026** | **199 231 036** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 027** | **199 231 037** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 028** | **199 231 038** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 110 | 194 | 56 | | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FC (Fail safe to close)
## With manual override
## With fixed flanges PP-H serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

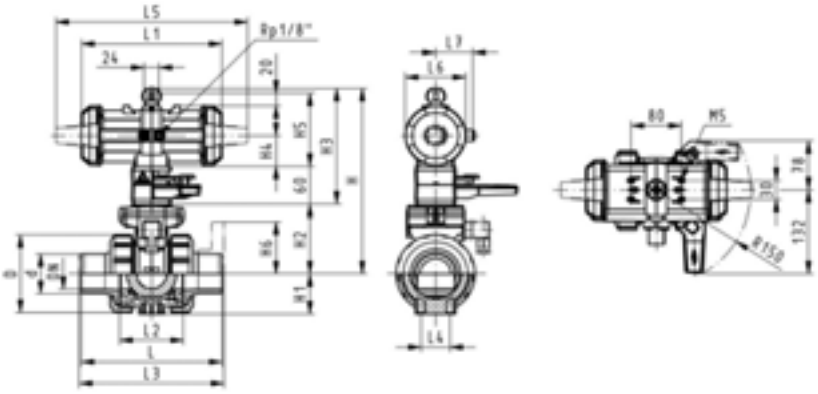
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 243** | **199 231 253** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 231 244** | **199 231 254** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 231 245** | **199 231 255** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 246** | **199 231 256** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 247** | **199 231 257** | 3.900 | |
| 63 | 50 | 2 | 10 | 3100 | **199 231 248** | **199 231 258** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 139 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## With manual override
## With fusion sockets metric

**Model:**

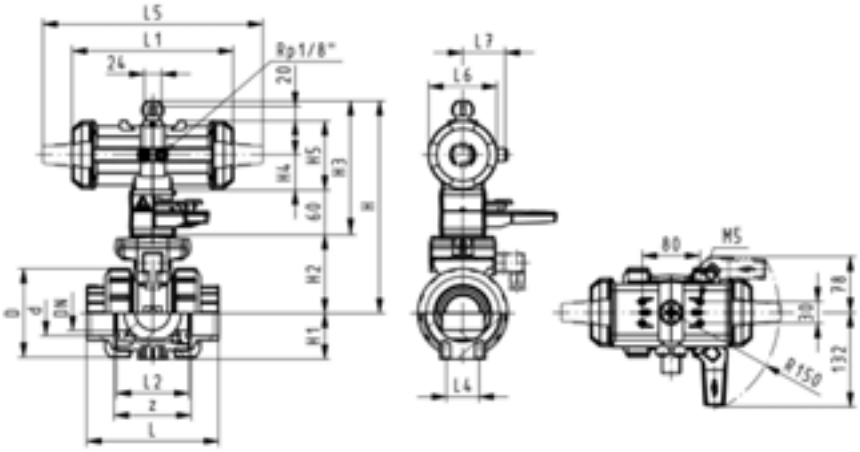
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 042** | **199 231 052** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 043** | **199 231 053** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 044** | **199 231 054** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 045** | **199 231 055** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 046** | **199 231 056** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 047** | **199 231 057** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 048** | **199 231 058** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## With manual override
## With fusion spigots metric

**Model:**

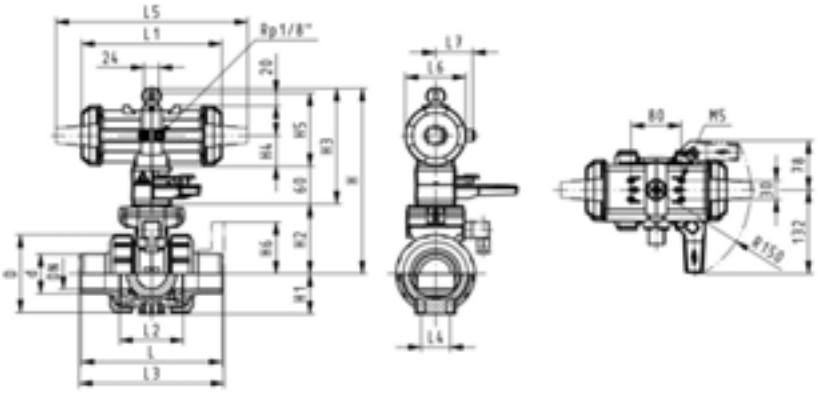
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 062** | **199 231 072** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 063** | **199 231 073** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 064** | **199 231 074** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 065** | **199 231 075** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 066** | **199 231 076** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 067** | **199 231 077** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 068** | **199 231 078** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 110 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## With manual override
## With fixed flanges PP-H serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

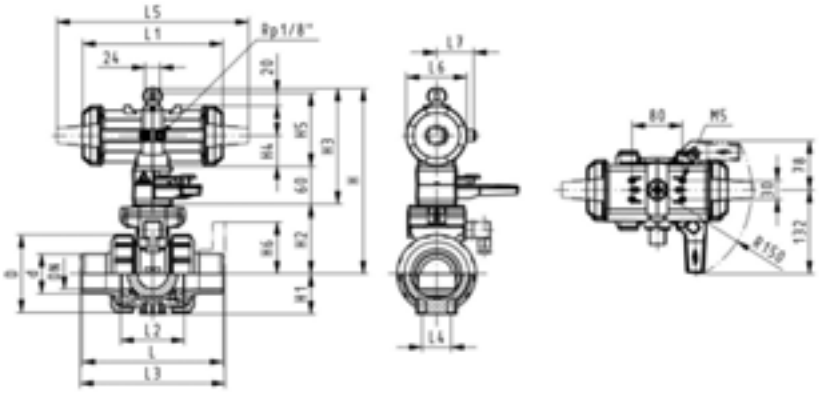
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 263** | **199 231 273** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 231 264** | **199 231 274** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 231 265** | **199 231 275** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 266** | **199 231 276** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 267** | **199 231 277** | 3.900 |
| 63 | 50 | 2 | 10 | 3100 | **199 231 268** | **199 231 278** | 4.900 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 58 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 139 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## With manual override
## With fusion sockets metric

**Model:**

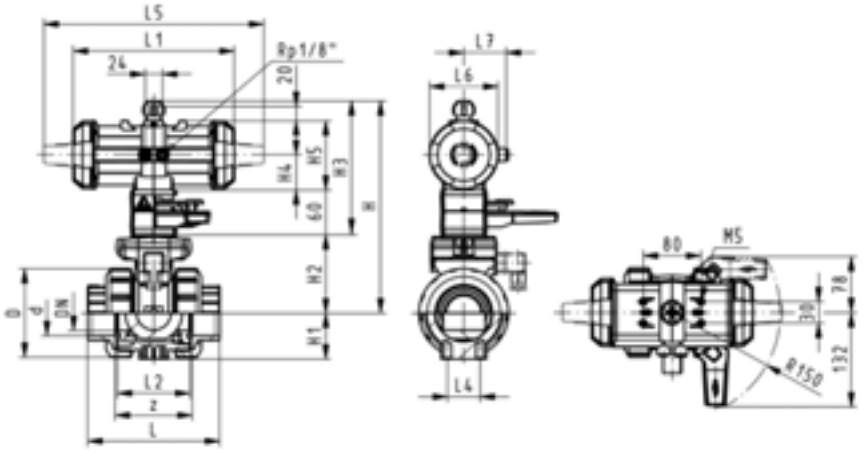
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 082** | **199 231 092** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 083** | **199 231 093** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 084** | **199 231 094** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 085** | **199 231 095** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 086** | **199 231 096** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 087** | **199 231 097** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 088** | **199 231 098** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## With manual override
## With fusion spigots metric

**Model:**

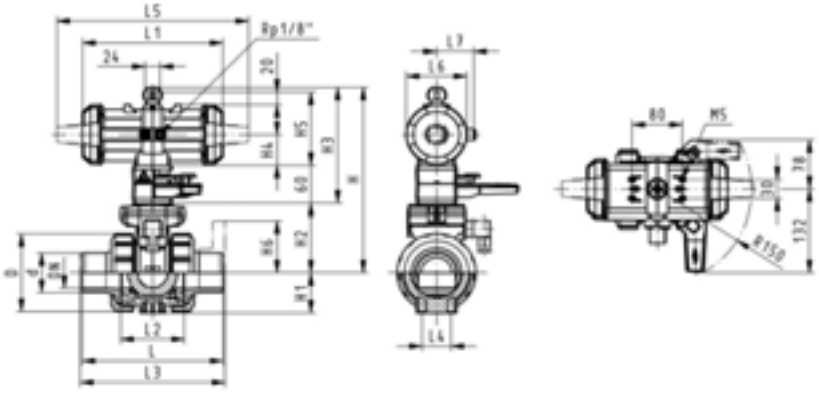
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 102** | **199 231 112** | 1.500 |
| 20 | 15 | 10 | 185 | **199 231 103** | **199 231 113** | 1.500 |
| 25 | 20 | 10 | 350 | **199 231 104** | **199 231 114** | 1.600 |
| 32 | 25 | 10 | 700 | **199 231 105** | **199 231 115** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 231 106** | **199 231 116** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 231 107** | **199 231 117** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 231 108** | **199 231 118** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 110 | 194 | 56 | | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## With manual override
## With fixed flanges PP-H serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

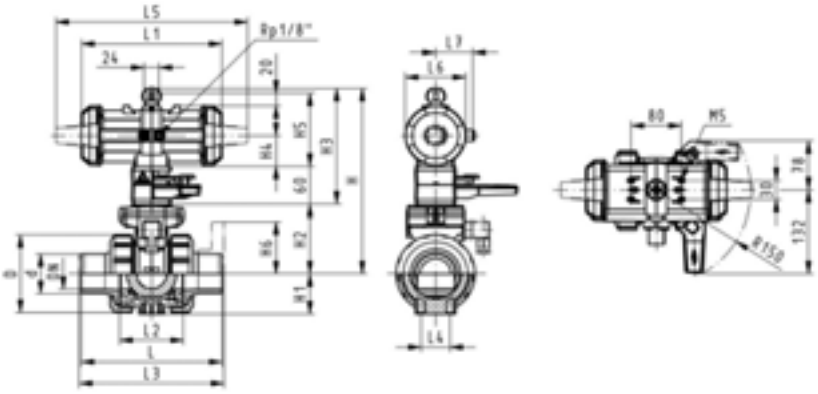
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 283** | **199 231 293** | 1.700 | |
| 25 | 20 | ¾ | 10 | 350 | **199 231 284** | **199 231 294** | 1.900 | |
| 32 | 25 | 1 | 10 | 700 | **199 231 285** | **199 231 295** | 2.100 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 286** | **199 231 296** | 3.400 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 287** | **199 231 297** | 3.900 | |
| 63 | 50 | 2 | 10 | 3100 | **199 231 288** | **199 231 298** | 4.900 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 139 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FC (Fail safe to close)
## Without manual override
## With fusion sockets metric

**Model:**

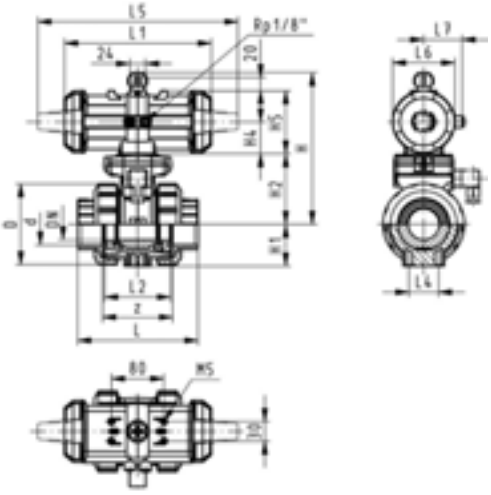
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 122** | **199 231 132** | 1.200 |
| 20 | 15 | 10 | 185 | **199 231 123** | **199 231 133** | 1.200 |
| 25 | 20 | 10 | 350 | **199 231 124** | **199 231 134** | 1.300 |
| 32 | 25 | 10 | 700 | **199 231 125** | **199 231 135** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 231 126** | **199 231 136** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 231 127** | **199 231 137** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 231 128** | **199 231 138** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H FC (Fail safe to close)
## Without manual override
## With fusion spigots metric

**Model:**

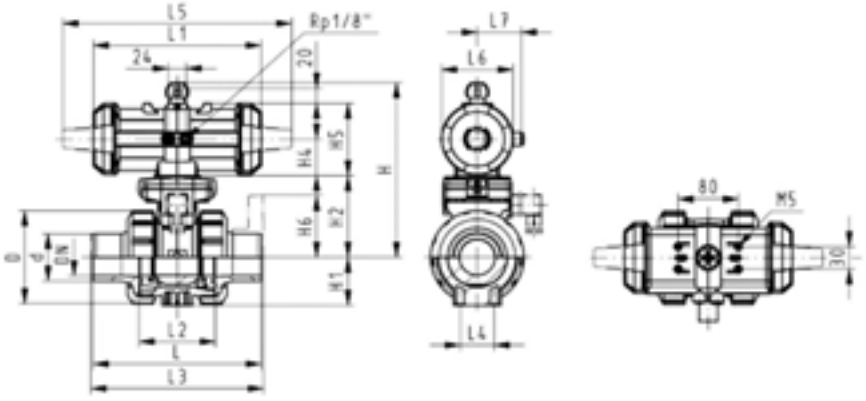
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 142** | **199 231 152** | 1.200 |
| 20 | 15 | 10 | 185 | **199 231 143** | **199 231 153** | 1.200 |
| 25 | 20 | 10 | 350 | **199 231 144** | **199 231 154** | 1.300 |
| 32 | 25 | 10 | 700 | **199 231 145** | **199 231 155** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 231 146** | **199 231 156** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 231 147** | **199 231 157** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 231 148** | **199 231 158** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 110 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FC (Fail safe to close)
## Without manual override
## With fixed flanges PP-H serrated metric

**Model:**

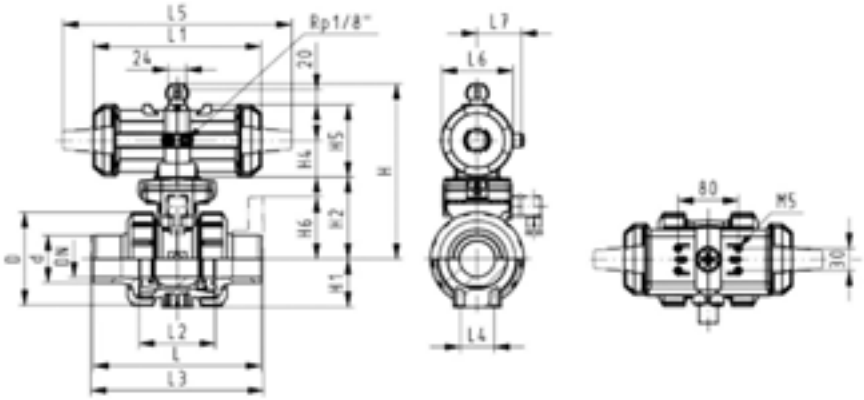
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 423** | **199 231 433** | 1.400 |
| 25 | 20 | ¾ | 10 | 350 | **199 231 424** | **199 231 434** | 1.600 |
| 32 | 25 | 1 | 10 | 700 | **199 231 425** | **199 231 435** | 1.800 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 426** | **199 231 436** | 3.100 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 427** | **199 231 437** | 3.600 |
| 63 | 50 | 2 | 10 | 3100 | **199 231 428** | **199 231 438** | 4.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 140 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## Without manual override
## With fusion sockets metric

**Model:**

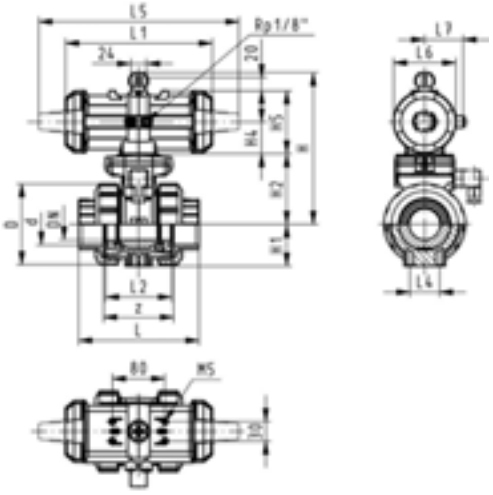
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 162** | **199 231 172** | 1.200 | |
| 20 | 15 | 10 | 185 | **199 231 163** | **199 231 173** | 1.200 | |
| 25 | 20 | 10 | 350 | **199 231 164** | **199 231 174** | 1.300 | |
| 32 | 25 | 10 | 700 | **199 231 165** | **199 231 175** | 1.400 | |
| 40 | 32 | 10 | 1000 | **199 231 166** | **199 231 176** | 2.500 | |
| 50 | 40 | 10 | 1600 | **199 231 167** | **199 231 177** | 2.800 | |
| 63 | 50 | 10 | 3100 | **199 231 168** | **199 231 178** | 3.700 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## Without manual override
## With fusion spigots metric

**Model:**

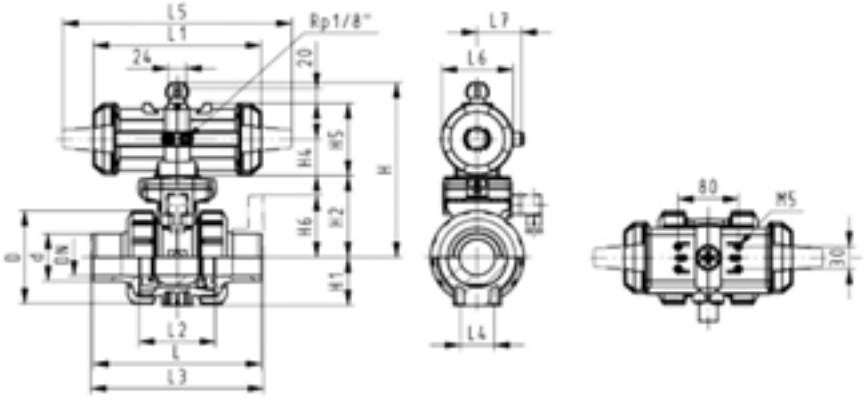
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 182** | **199 231 192** | 1.200 |
| 20 | 15 | 10 | 185 | **199 231 183** | **199 231 193** | 1.200 |
| 25 | 20 | 10 | 350 | **199 231 184** | **199 231 194** | 1.300 |
| 32 | 25 | 10 | 700 | **199 231 185** | **199 231 195** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 231 186** | **199 231 196** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 231 187** | **199 231 197** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 231 188** | **199 231 198** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 110 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H FO (Fail safe to open)
## Without manual override
## With fixed flanges PP-H serrated metric

**Model:**

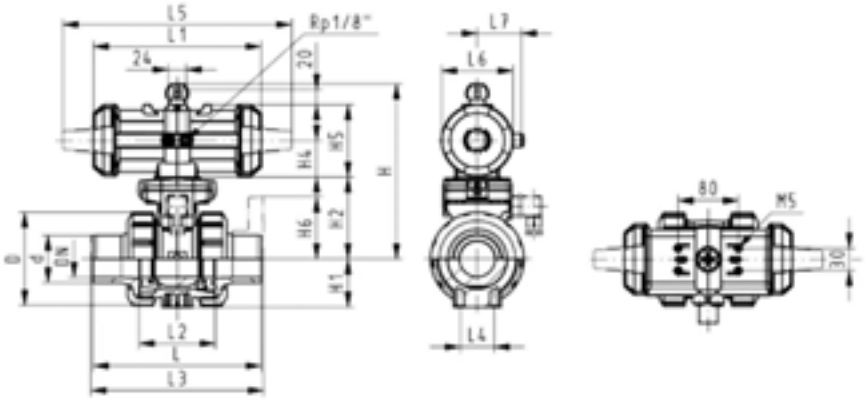
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 443** | **199 231 453** | 1.400 | |
| 25 | 20 | ¾ | 10 | 350 | **199 231 444** | **199 231 454** | 1.600 | |
| 32 | 25 | 1 | 10 | 700 | **199 231 445** | **199 231 455** | 1.800 | |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 446** | **199 231 456** | 3.100 | |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 447** | **199 231 457** | 3.600 | |
| 63 | 50 | 2 | 10 | 3100 | **199 231 448** | **199 231 458** | 4.700 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 140 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## Without manual override
## With fusion sockets metric

**Model:**

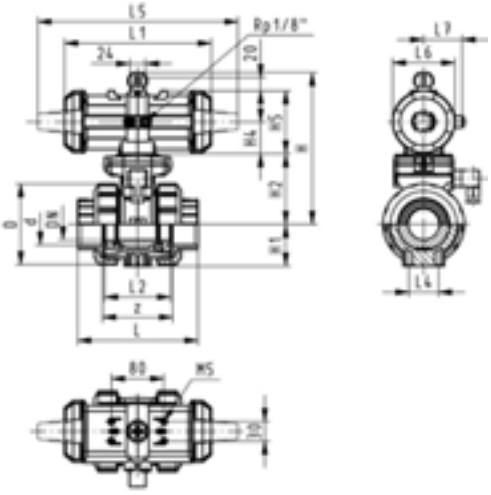
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 202** | **199 231 212** | 1.200 |
| 20 | 15 | 10 | 185 | **199 231 203** | **199 231 213** | 1.200 |
| 25 | 20 | 10 | 350 | **199 231 204** | **199 231 214** | 1.300 |
| 32 | 25 | 10 | 700 | **199 231 205** | **199 231 215** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 231 206** | **199 231 216** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 231 207** | **199 231 217** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 231 208** | **199 231 218** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 93 | 194 | 56 | 25 | 261 | 76 | 48 | 66 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 67 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 108 | 194 | 65 | 25 | 261 | 76 | 48 | 77 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 118 | 194 | 71 | 25 | 261 | 76 | 48 | 83 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 137 | 224 | 85 | 45 | 305 | 95 | 59 | 99 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 147 | 224 | 89 | 45 | 305 | 95 | 59 | 105 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 168 | 224 | 101 | 45 | 305 | 95 | 59 | 117 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## Without manual override
## With fusion spigots metric

**Model:**

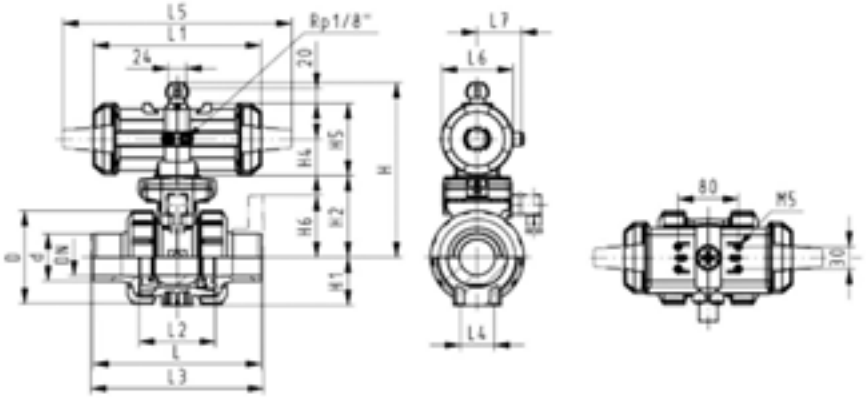
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 231 222** | **199 231 232** | 1.200 | |
| 20 | 15 | 10 | 185 | **199 231 223** | **199 231 233** | 1.200 | |
| 25 | 20 | 10 | 350 | **199 231 224** | **199 231 234** | 1.300 | |
| 32 | 25 | 10 | 700 | **199 231 225** | **199 231 235** | 1.400 | |
| 40 | 32 | 10 | 1000 | **199 231 226** | **199 231 236** | 2.500 | |
| 50 | 40 | 10 | 1600 | **199 231 227** | **199 231 237** | 2.800 | |
| 63 | 50 | 10 | 3100 | **199 231 228** | **199 231 238** | 3.700 | |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 110 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 139 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 231 PP-H DA (Double acting)
## Without manual override
## With fixed flanges PP-H serrated metric

**Model:**

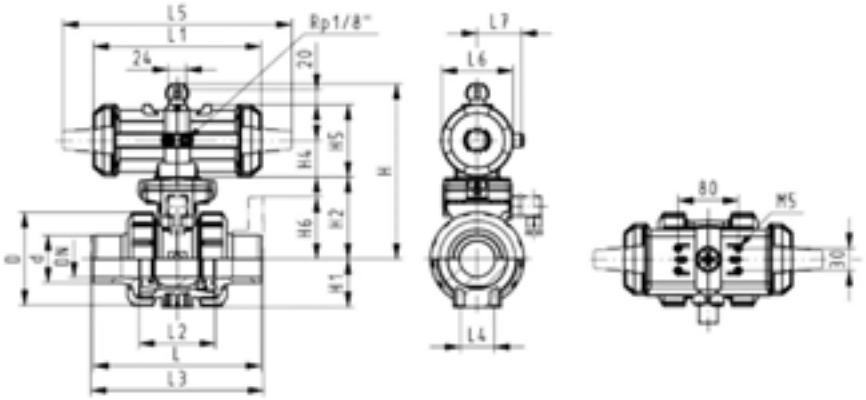
- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 231 463** | **199 231 473** | 1.400 |
| 25 | 20 | ¾ | 10 | 350 | **199 231 464** | **199 231 474** | 1.600 |
| 32 | 25 | 1 | 10 | 700 | **199 231 465** | **199 231 475** | 1.800 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 231 466** | **199 231 476** | 3.100 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 231 467** | **199 231 477** | 3.600 |
| 63 | 50 | 2 | 10 | 3100 | **199 231 468** | **199 231 478** | 4.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 120 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 140 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 150 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 170 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 190 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 220 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# PP-H metric

## Ball valve type 208 PP-H FC (Fail safe to close)
## Without manual override
## With flanges PP-V metric

**Model:**

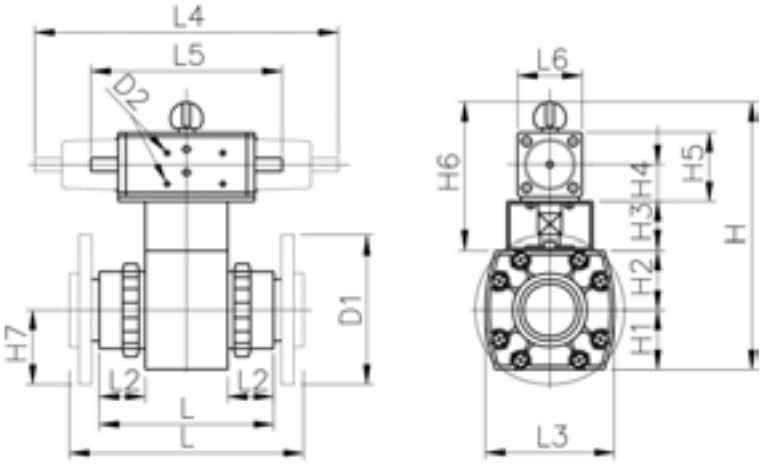
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 860** | **199 208 875** | 9.800 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 861** | **199 208 876** | 14.800 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 862** | **199 208 877** | 18.700 | |
| 160 | 150 | 6 | 10 | 16000 | **199 208 863** | **199 208 878** | 20.300 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 | |



# PP-H metric

## Ball valve type 208 PP-H FO (Fail safe to open)
## Without manual override
## With flanges PP-V metric

**Model:**

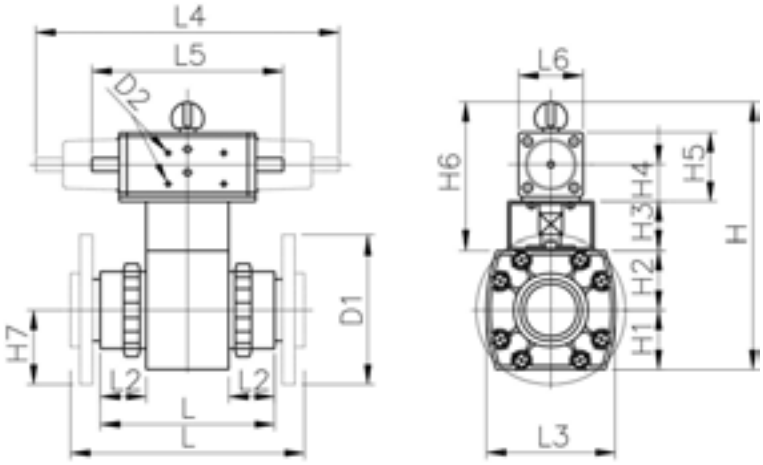
- Control time 90°<) 0,5-2 s
- For easy installation and removal
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 890** | **199 208 905** | 9.800 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 891** | **199 208 906** | 14.800 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 892** | **199 208 907** | 18.700 | |
| 160 | 100 | 4 | 10 | 11000 | **199 208 893** | **199 208 908** | 20.300 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L4 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 376 | 80 | 337 | 75 | 73 | 60 | 46 | 86 | 189 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 439 | 100 | 395 | 88 | 88 | 70 | 56 | 106 | 219 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 439 | 100 | 451 | 110 | 113 | 80 | 56 | 106 | 229 | 143 | |



# PP-H metric

## Ball valve type 208 PP-H DA (Double acting)
## Without manual override
## With flanges PP-V metric

**Model:**

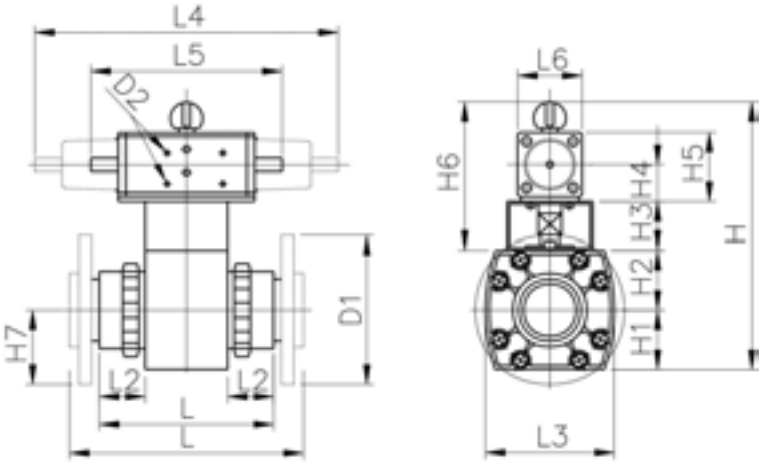
- For easy installation and removal
- Control time 90°<) 0,5-2 s
- Overall length according to EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Note:**

- **Product will be replaced by type 238 DN65-100 in the 4. quarter 2006.**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | 10 | 5000 | **199 208 920** | **199 208 935** | 6.700 | |
| 90 | 80 | 3 | 10 | 7000 | **199 208 921** | **199 208 936** | 10.100 | |
| 110 | 100 | 4 | 10 | 11000 | **199 208 922** | **199 208 937** | 14.000 | |
| 160 | 100 | 4 | 10 | 11000 | **199 208 923** | **199 208 938** | 15.600 | |

| d [mm] | D1 [mm] | D2_G [inch] | L [mm] | L3 [mm] | L5 [mm] | L6 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 185 | ⅛ | 290 | 160 | 228 | 65 | 321 | 75 | 73 | 60 | 38 | 71 | 173 | 93 | |
| 90 | 200 | ⅛ | 310 | 188 | 258 | 80 | 375 | 88 | 88 | 70 | 46 | 86 | 199 | 100 | |
| 110 | 220 | ⅛ | 350 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 110 | |
| 160 | 285 | ⅛ | 480 | 225 | 258 | 80 | 431 | 110 | 113 | 80 | 46 | 86 | 209 | 143 | |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/L-port
## Without manual override
## With fusion sockets metric

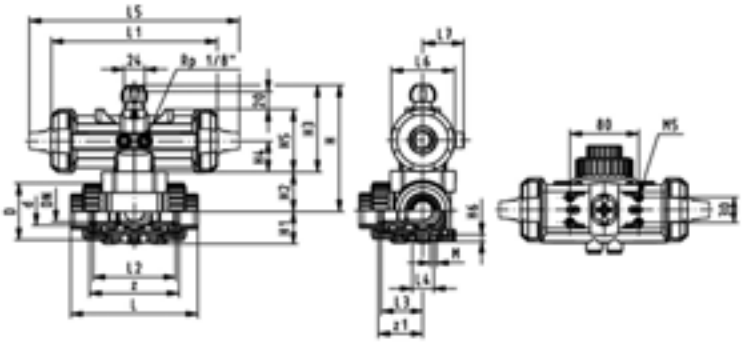
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 276 022** | **199 276 032** | 1.044 |
| 20 | 15 | 10 | 75 | **199 276 023** | **199 276 033** | 1.044 |
| 25 | 20 | 10 | 150 | **199 276 024** | **199 276 034** | 1.167 |
| 32 | 25 | 10 | 280 | **199 276 025** | **199 276 035** | 1.290 |
| 40 | 32 | 10 | 480 | **199 276 026** | **199 276 036** | 2.191 |
| 50 | 40 | 10 | 620 | **199 276 027** | **199 276 037** | 2.555 |
| 63 | 50 | 10 | 1230 | **199 276 028** | **199 276 038** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 177 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 205 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 261 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 78 | 39 |
| 20 | 48 | 6 | 79 | 40 |
| 25 | 48 | 6 | 95 | 48 |
| 32 | 48 | 6 | 108 | 54 |
| 40 | 59 | 8 | 133 | 67 |
| 50 | 59 | 8 | 155 | 78 |
| 63 | 59 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/L-port
## Without manual override
## With butt fusion spigots metric

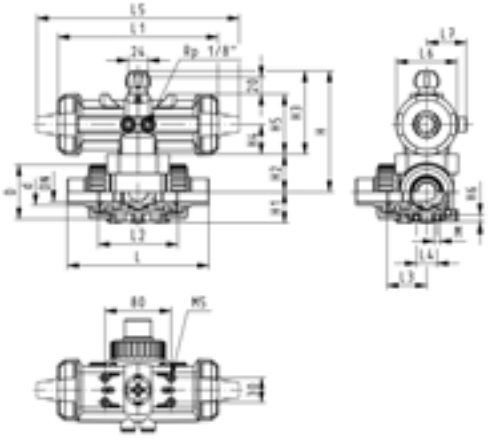
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 75 | **199 276 083** | **199 276 093** | 1.044 |
| 25 | 20 | 10 | 150 | **199 276 084** | **199 276 094** | 1.167 |
| 32 | 25 | 10 | 280 | **199 276 085** | **199 276 095** | 1.290 |
| 40 | 32 | 10 | 480 | **199 276 086** | **199 276 096** | 2.191 |
| 50 | 40 | 10 | 620 | **199 276 087** | **199 276 097** | 2.555 |
| 63 | 50 | 10 | 1230 | **199 276 088** | **199 276 098** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/T-port
## Without manual override
## With fusion sockets metric

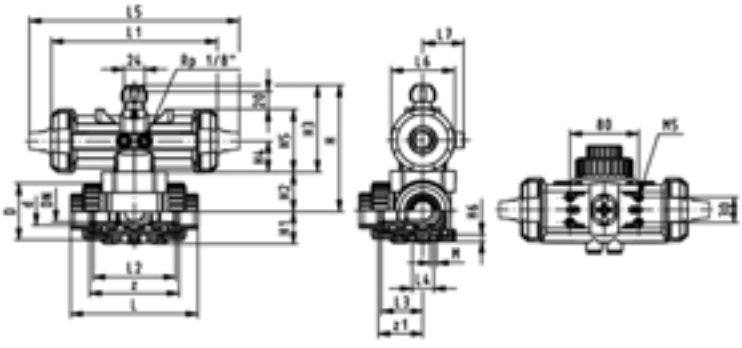
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 276 062** | **199 276 072** | 1.044 |
| 20 | 15 | 10 | 200 | **199 276 063** | **199 276 073** | 1.044 |
| 25 | 20 | 10 | 470 | **199 276 064** | **199 276 074** | 1.167 |
| 32 | 25 | 10 | 793 | **199 276 065** | **199 276 075** | 1.290 |
| 40 | 32 | 10 | 1290 | **199 276 066** | **199 276 076** | 2.191 |
| 50 | 40 | 10 | 1910 | **199 276 067** | **199 276 077** | 2.555 |
| 63 | 50 | 10 | 3100 | **199 276 068** | **199 276 078** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 177 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 205 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 261 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 78 | 39 |
| 20 | 48 | 6 | 79 | 40 |
| 25 | 48 | 6 | 95 | 48 |
| 32 | 48 | 6 | 108 | 54 |
| 40 | 59 | 8 | 133 | 67 |
| 50 | 59 | 8 | 155 | 78 |
| 63 | 59 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/T-port
## Without manual override
## With butt fusion spigots metric

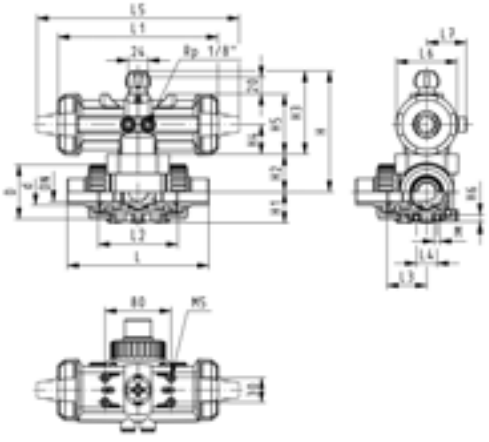
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 200 | **199 276 103** | **199 276 113** | 1.044 |
| 25 | 20 | 10 | 470 | **199 276 104** | **199 276 114** | 1.167 |
| 32 | 25 | 10 | 793 | **199 276 105** | **199 276 115** | 1.290 |
| 40 | 32 | 10 | 1290 | **199 276 106** | **199 276 116** | 2.191 |
| 50 | 40 | 10 | 1910 | **199 276 107** | **199 276 117** | 2.555 |
| 63 | 50 | 10 | 3100 | **199 276 108** | **199 276 118** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/L-port DA (Double acting)
## Without manual override
## With fusion sockets metric

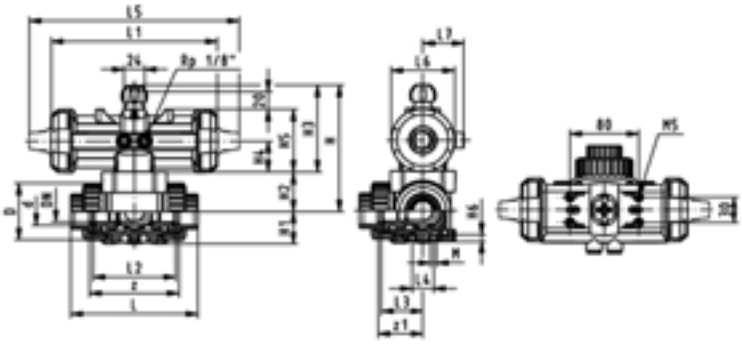
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 276 182** | **199 276 192** | 0.854 |
| 20 | 15 | 10 | 75 | **199 276 183** | **199 276 193** | 0.854 |
| 25 | 20 | 10 | 150 | **199 276 184** | **199 276 194** | 0.977 |
| 32 | 25 | 10 | 280 | **199 276 185** | **199 276 195** | 1.100 |
| 40 | 32 | 10 | 480 | **199 276 186** | **199 276 196** | 1.767 |
| 50 | 40 | 10 | 620 | **199 276 187** | **199 276 197** | 2.131 |
| 63 | 50 | 10 | 1230 | **199 276 188** | **199 276 198** | 3.297 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 177 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 205 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 261 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 78 | 39 |
| 20 | 48 | 6 | 79 | 40 |
| 25 | 48 | 6 | 95 | 48 |
| 32 | 48 | 6 | 108 | 54 |
| 40 | 59 | 8 | 133 | 67 |
| 50 | 59 | 8 | 155 | 78 |
| 63 | 59 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/L-port DA (Double acting)
## Without manual override
## With butt fusion spigots metric

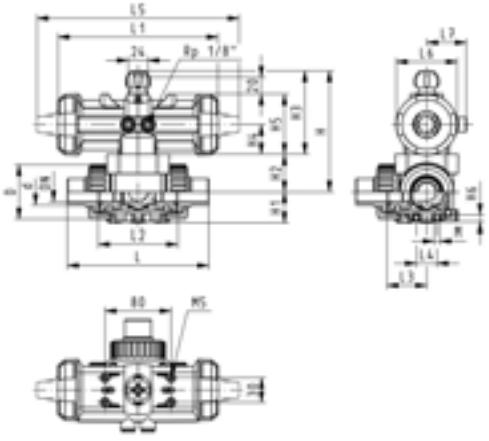
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 75 | **199 276 243** | **199 276 253** | 0.854 |
| 25 | 20 | 10 | 150 | **199 276 244** | **199 276 254** | 0.977 |
| 32 | 25 | 10 | 280 | **199 276 245** | **199 276 255** | 1.100 |
| 40 | 32 | 10 | 480 | **199 276 246** | **199 276 256** | 1.767 |
| 50 | 40 | 10 | 620 | **199 276 247** | **199 276 257** | 2.131 |
| 63 | 50 | 10 | 1230 | **199 276 248** | **199 276 258** | 3.063 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/T-port DA (Double acting)
## Without manual override
## With fusion sockets metric

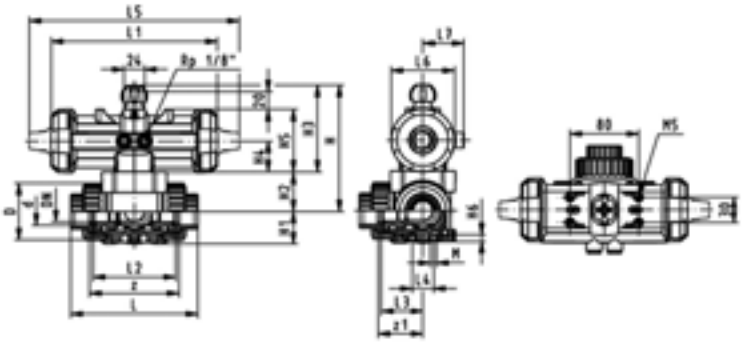
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 276 222** | **199 276 232** | 0.854 |
| 20 | 15 | 10 | 200 | **199 276 223** | **199 276 233** | 0.854 |
| 25 | 20 | 10 | 470 | **199 276 224** | **199 276 234** | 0.977 |
| 32 | 25 | 10 | 793 | **199 276 225** | **199 276 235** | 1.100 |
| 40 | 32 | 10 | 1290 | **199 276 226** | **199 276 236** | 1.767 |
| 50 | 40 | 10 | 1910 | **199 276 227** | **199 276 237** | 2.131 |
| 63 | 50 | 10 | 3100 | **199 276 228** | **199 276 238** | 3.297 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 108 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 111 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 131 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 148 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 177 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 205 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 261 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M | z [mm] | z1 [mm] |
|---|---|---|---|---|
| 16 | 48 | 6 | 78 | 39 |
| 20 | 48 | 6 | 79 | 40 |
| 25 | 48 | 6 | 95 | 48 |
| 32 | 48 | 6 | 108 | 54 |
| 40 | 59 | 8 | 133 | 67 |
| 50 | 59 | 8 | 155 | 78 |
| 63 | 59 | 8 | 203 | 102 |



# PP-H metric

## 3-Way ball valve type 276 PP-H
## Horizontal/T-port DA (Double acting)
## Without manual override
## With butt fusion spigots metric

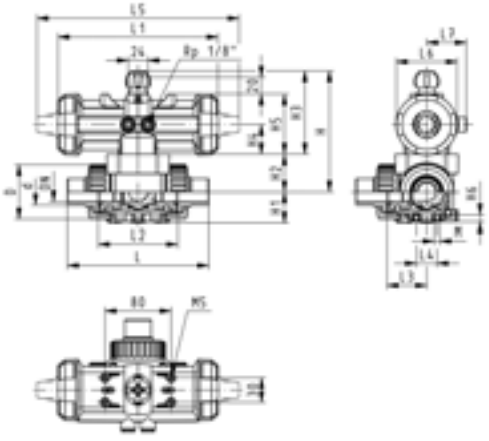
**Model:**

- Built on with pneumatic actuator PA11/21
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 200 | **199 276 263** | **199 276 273** | 0.854 |
| 25 | 20 | 10 | 470 | **199 276 264** | **199 276 274** | 0.977 |
| 32 | 25 | 10 | 793 | **199 276 265** | **199 276 275** | 1.100 |
| 40 | 32 | 10 | 1290 | **199 276 266** | **199 276 276** | 1.767 |
| 50 | 40 | 10 | 1910 | **199 276 267** | **199 276 277** | 2.131 |
| 63 | 50 | 10 | 3100 | **199 276 268** | **199 276 278** | 3.297 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# PP-H metric

# Diaphragm valves pneumatic

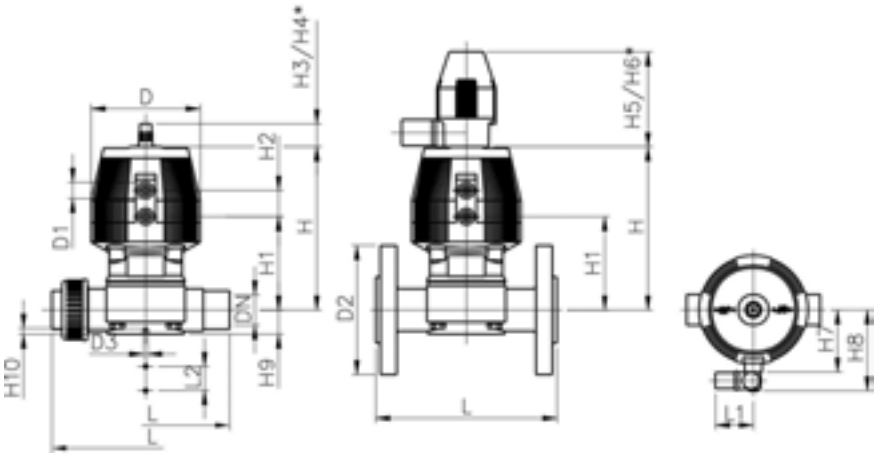
## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 201** | **199 025 231** | 1.200 |
| 25 | 20 | 10 | 120 | **199 025 202** | **199 025 232** | 0.916 |
| 32 | 25 | 10 | 238 | **199 025 203** | **199 025 233** | 2.200 |
| 40 | 32 | 10 | 341 | **199 025 204** | **199 025 234** | 2.604 |
| 50 | 40 | 10 | 460 | **199 025 205** | **199 025 235** | 4.165 |
| 63 | 50 | 10 | 685 | **199 025 206** | **199 025 236** | 5.900 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PP-H metric

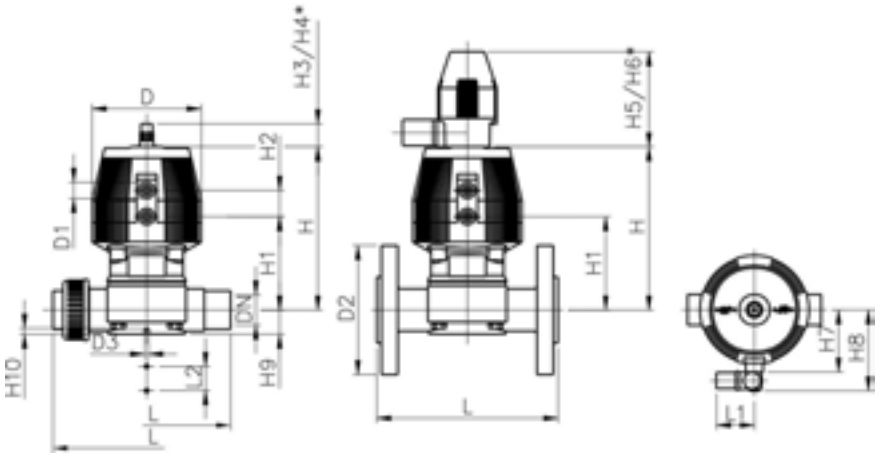
## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## With butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 881** | **199 025 901** | 0.739 |
| 25 | 20 | 10 | 120 | **199 025 882** | **199 025 902** | 0.836 |
| 32 | 25 | 10 | 238 | **199 025 883** | **199 025 903** | 1.505 |
| 40 | 32 | 10 | 341 | **199 025 884** | **199 025 904** | 0.238 |
| 50 | 40 | 10 | 460 | **199 025 885** | **199 025 905** | 4.165 |
| 63 | 50 | 10 | 685 | **199 025 886** | **199 025 906** | 5.746 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PP-H metric

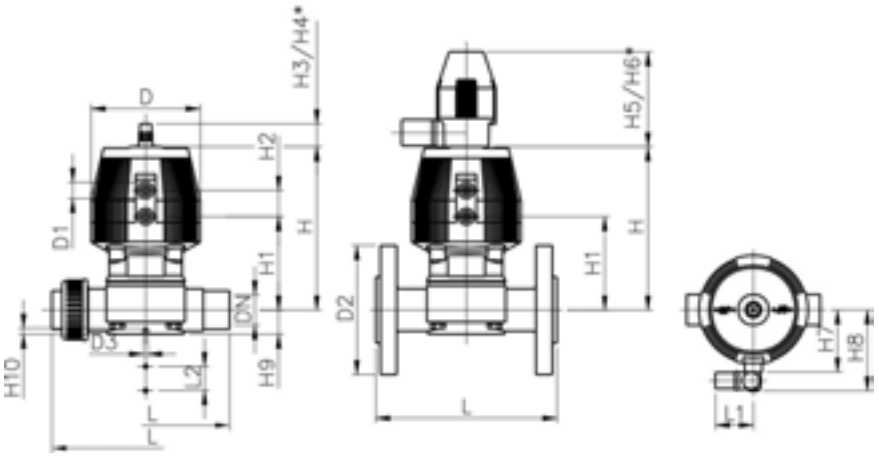
## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## Unions with butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 431** | **199 027 461** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 432** | **199 027 462** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 433** | **199 027 463** | 2.300 |
| 40 | 32 | 10 | 341 | **199 027 434** | **199 027 464** | 2.604 |
| 50 | 40 | 10 | 460 | **199 027 435** | **199 027 465** | 2.604 |
| 63 | 50 | 10 | 685 | **199 027 436** | **199 027 466** | 6.400 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 196 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 221 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 234 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 260 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 284 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 321 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PP-H metric

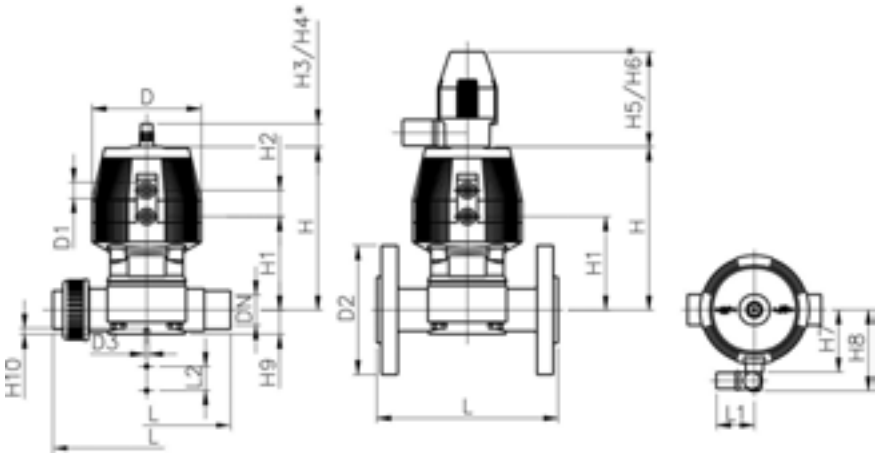
## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 201** | **199 027 231** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 202** | **199 027 232** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 203** | **199 027 233** | 2.300 |
| 40 | 32 | 10 | 341 | **199 027 204** | **199 027 234** | 3.200 |
| 50 | 40 | 10 | 460 | **199 027 205** | **199 027 235** | 2.604 |
| 63 | 50 | 10 | 685 | **199 027 206** | **199 027 236** | 2.604 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 128 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 162 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 184 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 210 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 248 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## With backing flanges PP-V metric

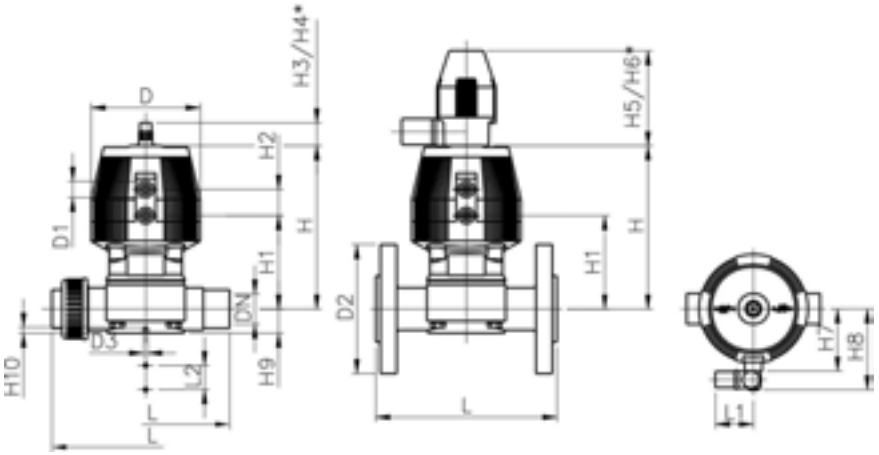
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 261** | **199 025 291** | 0.739 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 262** | **199 025 292** | 0.836 |
| 32 | 25 | 1 | 10 | 238 | **199 025 263** | **199 025 293** | 1.505 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 264** | **199 025 294** | 2.604 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 265** | **199 025 295** | 4.165 |
| 63 | 50 | 2 | 10 | 685 | **199 025 266** | **199 025 296** | 6.900 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 95 | 6 | 130 | 60 | 25 | 128 | 69 | 25 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 120 | ⅛ | 115 | 6 | 160 | 60 | 25 | 166 | 93 | 26 | 36 | 64 | 100 | 155 |
| 40 | 150 | ¼ | 140 | 8 | 180 | 60 | 45 | 201 | 106 | 36 | 36 | 64 | 100 | 160 |
| 50 | 180 | ¼ | 150 | 8 | 200 | 60 | 45 | 233 | 119 | 37 | 36 | 64 | 100 | 170 |
| 63 | 180 | ¼ | 165 | 8 | 230 | 60 | 45 | 247 | 133 | 37 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 56 | 86 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 68 | 100 | 21 | 12 | 12 |
| 40 | 85 | 117 | 26 | 15 | 14 |
| 50 | 101 | 133 | 33 | 15 | 18 |
| 63 | 101 | 133 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## With fixed flanges PP metric

**Model:**

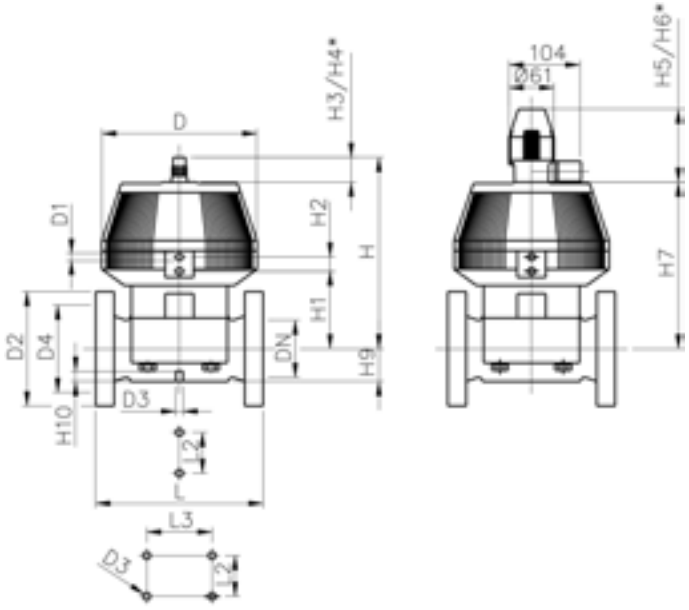
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PP-V
** with fixed flanges PP metric and Inch ANSI

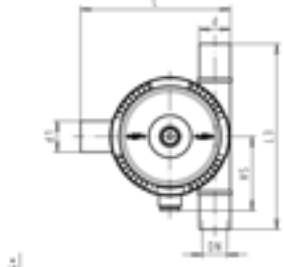
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg | |
|---|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 267** | **199 025 297** | 13.600 | |
| **90 | 80 | 3 | 10 | 1700 | **199 025 268** | **199 025 298** | 17.400 | |
| 110 | 100 | 4 | 8 | 2700 | **199 025 269** | **199 025 299** | 24.700 | |
| 160 | 150 | 6 | 6 | 6033 | **199 025 270** | **-** | 35.000 | |

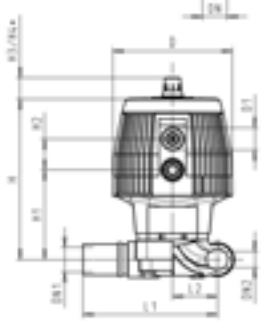
| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PP-H metric





## Diaphragm valve type DIASTAR PP-H
## Series 025 FC (Fail safe to close)
## Zero static with butt fusion spigots ISO/DIN

- With position indicator
- DN2: for coordination of accessoires

| d [mm] | d1 [mm] | DN [mm] | DN1 [mm] | DN2 [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE Code | kg |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 15 | 15 | 10 | 47 | **199 029 461** | **199 029 301** | 1.510 |
| 25 | 20 | 20 | 15 | 20 | 10 | 69 | **199 029 462** | **199 029 302** | 2.013 |
| 25 | 25 | 20 | 20 | 20 | 10 | 91 | **199 029 463** | **199 029 303** | 2.013 |
| 32 | 20 | 25 | 15 | 25 | 10 | 86 | **199 029 464** | **199 029 304** | 2.564 |
| 32 | 25 | 25 | 20 | 25 | 10 | 126 | **199 029 465** | **199 029 305** | 2.564 |
| 32 | 32 | 25 | 25 | 25 | 10 | 156 | **199 029 466** | **199 029 306** | 2.564 |
| 40 | 20 | 32 | 15 | 25 | 10 | 84 | **199 029 467** | **199 029 307** | 2.604 |
| 50 | 20 | 40 | 15 | 25 | 10 | 82 | **199 029 471** | **199 029 311** | 2.647 |
| 50 | 25 | 40 | 20 | 25 | 10 | 124 | **199 029 472** | **199 029 312** | 2.647 |
| 50 | 32 | 40 | 25 | 25 | 10 | 159 | **199 029 473** | **199 029 313** | 2.646 |
| 63 | 20 | 50 | 15 | 25 | 10 | 81 | **199 029 476** | **199 029 316** | 2.715 |
| 63 | 25 | 50 | 20 | 25 | 10 | 115 | **199 029 477** | **199 029 317** | 2.717 |
| 63 | 32 | 50 | 25 | 25 | 10 | 156 | **199 029 478** | **199 029 318** | 2.714 |
| 90 | 20 | 80 | 15 | 25 | 6 | 88 | **199 029 485** | **199 029 325** | 2.742 |
| 90 | 25 | 80 | 20 | 25 | 6 | 133 | **199 029 486** | **199 029 326** | 2.756 |
| 90 | 32 | 80 | 25 | 25 | 6 | 162 | **199 029 487** | **199 029 327** | 2.737 |
| 90 | 50 | 80 | 40 | 50 | 6 | 504 | **199 029 488** | **199 029 328** | 5.679 |
| 90 | 63 | 80 | 50 | 50 | 6 | 530 | **199 029 489** | **199 029 329** | 5.679 |
| 110 | 20 | 100 | 15 | 25 | 6 | 89 | **199 029 490** | **199 029 330** | 2.837 |
| 110 | 25 | 100 | 20 | 25 | 6 | 123 | **199 029 491** | **199 029 331** | 2.835 |
| 110 | 50 | 100 | 25 | 25 | 6 | 159 | **199 029 492** | **199 029 332** | 2.834 |
| 110 | 63 | 100 | 40 | 50 | 6 | 503 | **199 029 493** | **199 029 333** | 5.869 |
| 110 | 63 | 100 | 50 | 50 | 6 | 543 | **199 029 494** | **199 029 334** | 5.822 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 106 | 96 | 30 | 140 | 128 | 69 | 25 | 23 | 44 | 56 | 96 | ⅛ | 8 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |

# PP-H metric

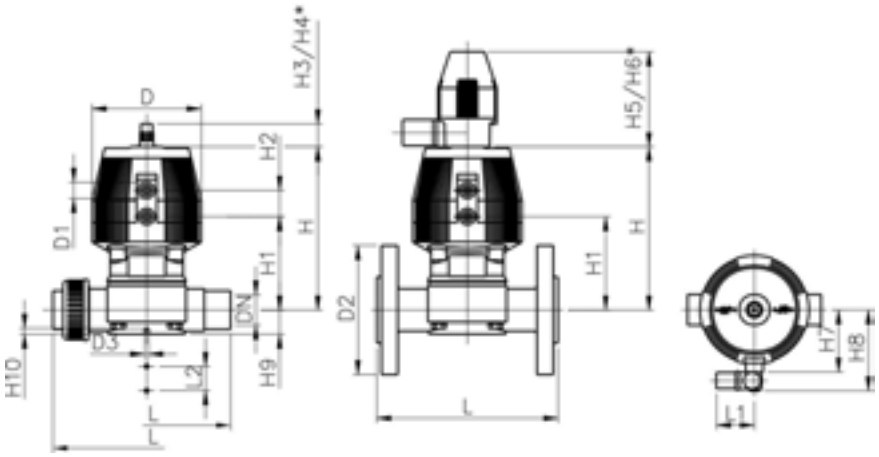
## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 211** | **199 025 241** | 0.374 |
| 25 | 20 | 10 | 120 | **199 025 212** | **199 025 242** | 0.660 |
| 32 | 25 | 10 | 238 | **199 025 213** | **199 025 243** | 0.910 |
| 40 | 32 | 10 | 341 | **199 025 214** | **199 025 244** | 1.150 |
| 50 | 40 | 10 | 460 | **199 025 215** | **199 025 245** | 1.410 |
| 63 | 50 | 10 | 685 | **199 025 216** | **199 025 246** | 2.660 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

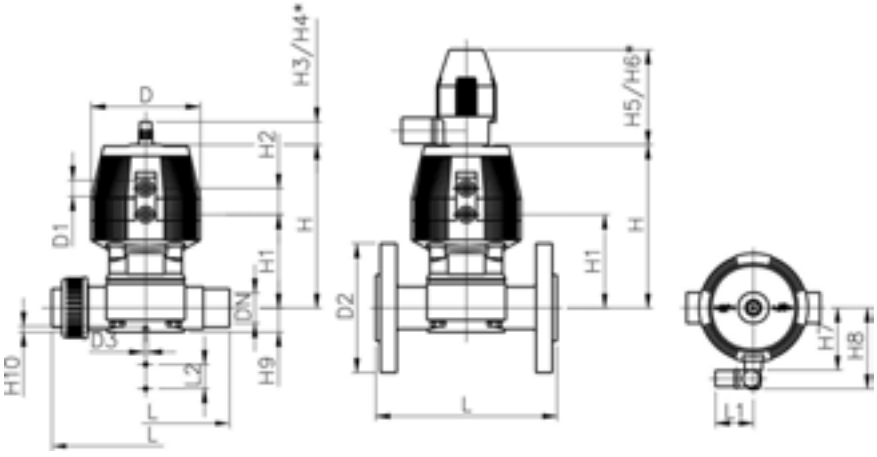
## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## With butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 887** | **199 025 907** | 0.374 |
| 25 | 20 | 10 | 120 | **199 025 888** | **199 025 908** | 0.660 |
| 32 | 25 | 10 | 238 | **199 025 889** | **199 025 909** | 0.910 |
| 40 | 32 | 10 | 341 | **199 025 890** | **199 025 910** | 1.150 |
| 50 | 40 | 10 | 460 | **199 025 891** | **199 025 911** | 1.410 |
| 63 | 50 | 10 | 685 | **199 025 892** | **199 025 912** | 2.660 |

| d [mm] | D [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H8 [mm] | H9 [mm] | D1_G [inch] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 | 76 | 14 | ⅛ |
| 25 | 96 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 | 88 | 18 | ⅛ |
| 32 | 96 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 | 88 | 21 | ⅛ |
| 40 | 120 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 | 100 | 26 | ⅛ |
| 50 | 150 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 | 117 | 33 | ¼ |
| 63 | 150 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 | 117 | 39 | ¼ |

| d [mm] | H10 [mm] | D3[M] [mm] | Lift = Hx [mm] |
|---|---|---|---|
| 20 | 12 | 6 | 8 |
| 25 | 12 | 6 | 10 |
| 32 | 12 | 6 | 12 |
| 40 | 15 | 8 | 14 |
| 50 | 15 | 8 | 18 |
| 63 | 15 | 8 | 22 |



# PP-H metric

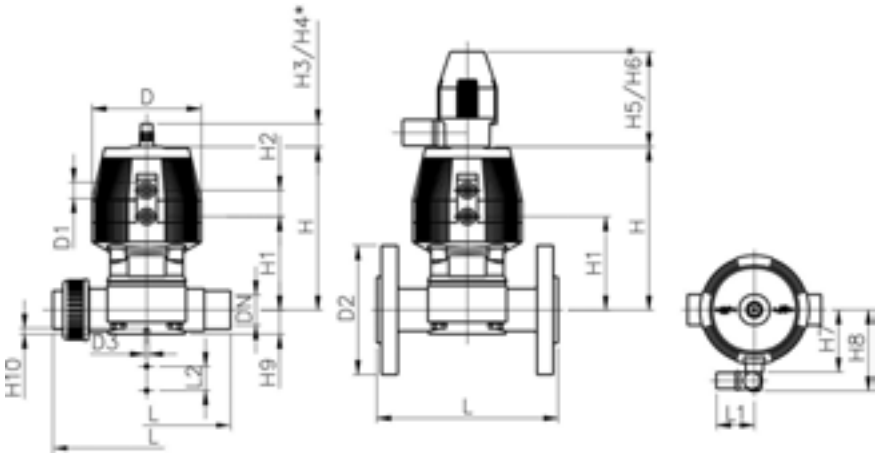
## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## Unions with butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 441** | **199 027 471** | 0.504 |
| 25 | 20 | 10 | 120 | **199 027 442** | **199 027 472** | 0.790 |
| 32 | 25 | 10 | 238 | **199 027 443** | **199 027 473** | 1.110 |
| 40 | 32 | 10 | 341 | **199 027 444** | **199 027 474** | 1.300 |
| 50 | 40 | 10 | 460 | **199 027 445** | **199 027 475** | 2.310 |
| 63 | 50 | 10 | 685 | **199 027 446** | **199 027 476** | 2.710 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 221 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 260 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 321 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

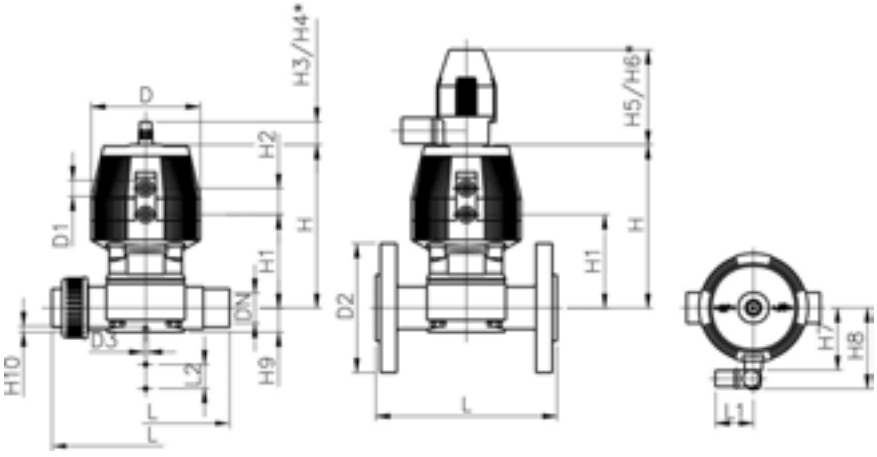
## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 211** | **199 027 241** | 0.504 |
| 25 | 20 | 10 | 120 | **199 027 212** | **199 027 242** | 0.790 |
| 32 | 25 | 10 | 238 | **199 027 213** | **199 027 243** | 1.110 |
| 40 | 32 | 10 | 341 | **199 027 214** | **199 027 244** | 1.300 |
| 50 | 40 | 10 | 460 | **199 027 215** | **199 027 245** | 2.310 |
| 63 | 50 | 10 | 685 | **199 027 216** | **199 027 246** | 2.710 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## With backing flanges PP-V metric

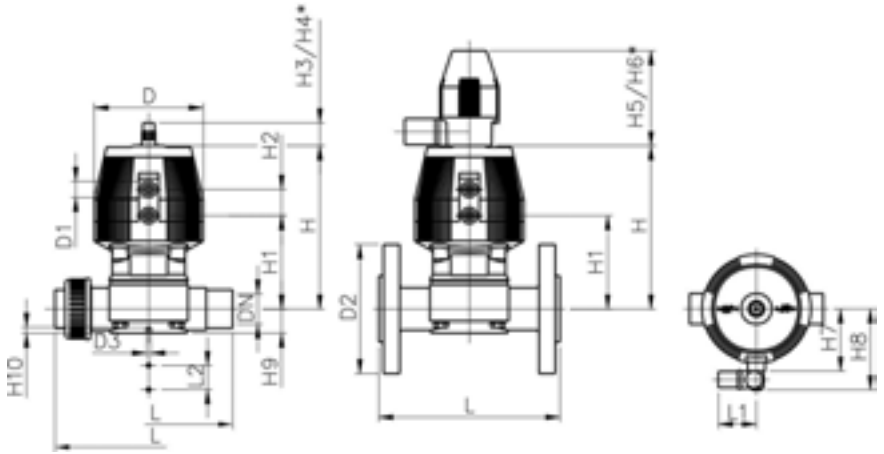
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 271** | **199 025 301** | 0.654 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 272** | **199 025 302** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 273** | **199 025 303** | 1.310 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 274** | **199 025 304** | 1.650 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 275** | **199 025 305** | 2.310 |
| 63 | 50 | 2 | 10 | 685 | **199 025 276** | **199 025 306** | 3.710 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 FO (Fail safe to open)
## With fixed flanges PP metric

**Model:**

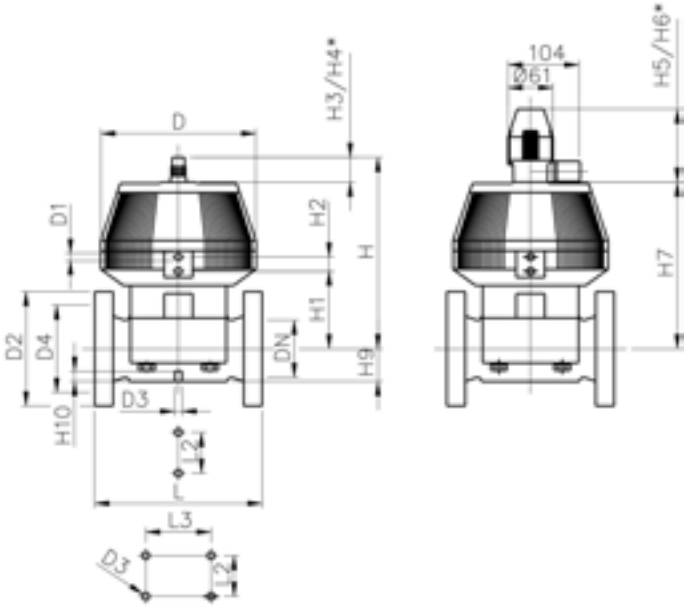
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PP-V
** with fixed flanges PP metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 277** | **199 025 307** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 278** | **199 025 308** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 279** | **199 025 309** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 280** | **199 025 310** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PP-H metric

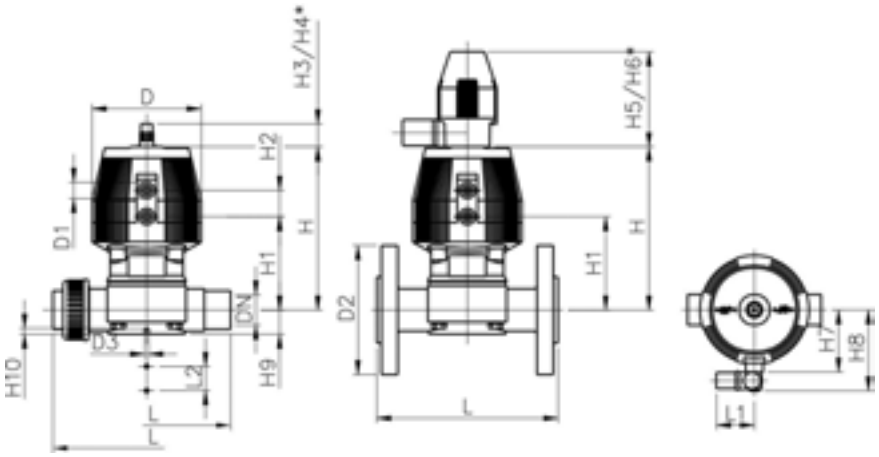
## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 221** | **199 025 251** | 0.374 |
| 25 | 20 | 10 | 120 | **199 025 222** | **199 025 252** | 0.660 |
| 32 | 25 | 10 | 238 | **199 025 223** | **199 025 253** | 0.910 |
| 40 | 32 | 10 | 341 | **199 025 224** | **199 025 254** | 1.150 |
| 50 | 40 | 10 | 460 | **199 025 225** | **199 025 255** | 1.410 |
| 63 | 50 | 10 | 685 | **199 025 226** | **199 025 256** | 2.660 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

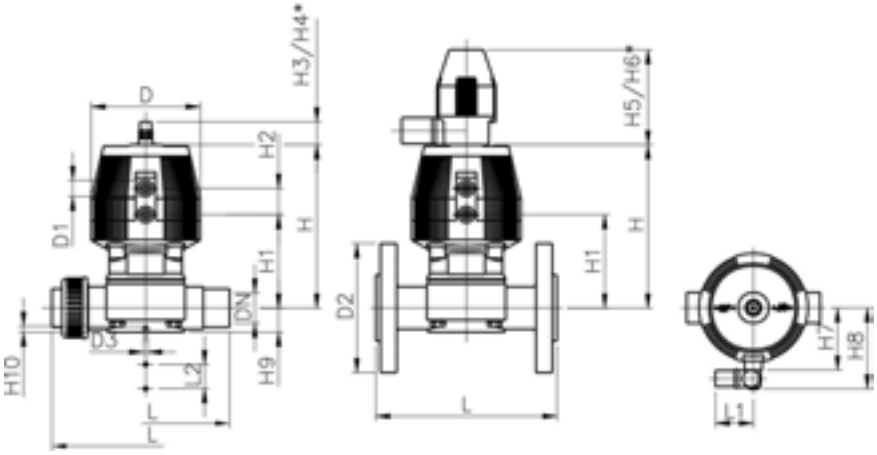
## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## With butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 893** | **199 025 913** | 0.374 |
| 25 | 20 | 10 | 120 | **199 025 894** | **199 025 914** | 0.660 |
| 32 | 25 | 10 | 238 | **199 025 895** | **199 025 915** | 0.910 |
| 40 | 32 | 10 | 341 | **199 025 896** | **199 025 916** | 1.150 |
| 50 | 40 | 10 | 460 | **199 025 897** | **199 025 917** | 1.410 |
| 63 | 50 | 10 | 685 | **199 025 898** | **199 025 918** | 3.031 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

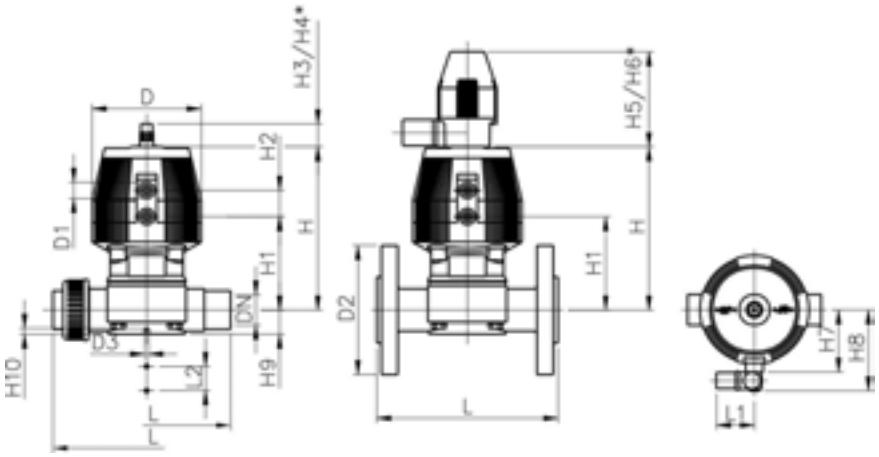
## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## Unions with butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 451** | **199 027 481** | 0.504 |
| 25 | 20 | 10 | 120 | **199 027 452** | **199 027 482** | 0.790 |
| 32 | 25 | 10 | 238 | **199 027 453** | **199 027 483** | 1.110 |
| 40 | 32 | 10 | 341 | **199 027 454** | **199 027 484** | 1.300 |
| 50 | 40 | 10 | 460 | **199 027 455** | **199 027 485** | 2.310 |
| 63 | 50 | 10 | 685 | **199 027 456** | **199 027 486** | 2.710 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 221 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 260 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 321 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

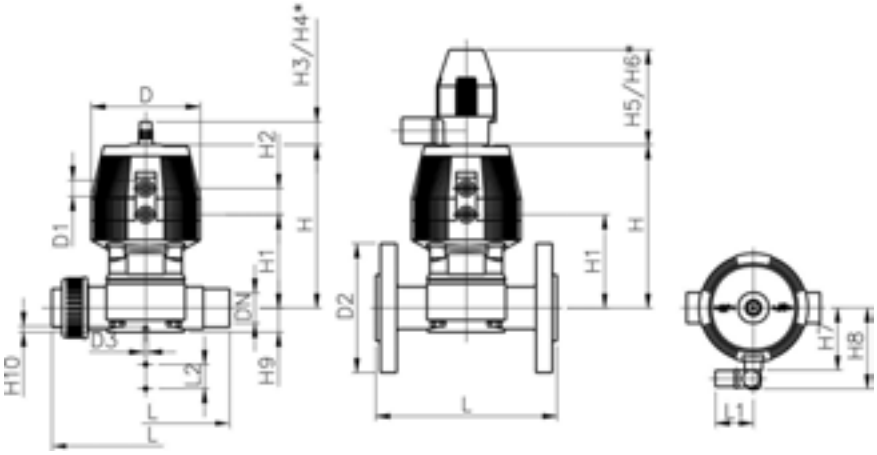
## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 221** | **199 027 251** | 0.504 |
| 25 | 20 | 10 | 120 | **199 027 222** | **199 027 252** | 0.790 |
| 32 | 25 | 10 | 238 | **199 027 223** | **199 027 253** | 1.110 |
| 40 | 32 | 10 | 341 | **199 027 224** | **199 027 254** | 1.300 |
| 50 | 40 | 10 | 460 | **199 027 225** | **199 027 255** | 2.310 |
| 63 | 50 | 10 | 685 | **199 027 226** | **199 027 256** | 2.710 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## With backing flanges PP-V metric

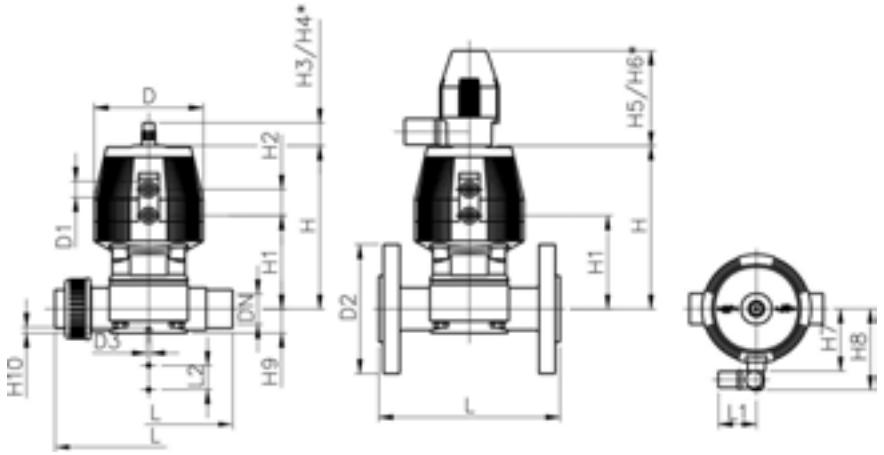
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 281** | **199 025 311** | 0.654 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 282** | **199 025 312** | 0.890 |
| 32 | 25 | 1 | 10 | 238 | **199 025 283** | **199 025 313** | 1.310 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 284** | **199 025 314** | 1.650 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 285** | **199 025 315** | 2.310 |
| 63 | 50 | 2 | 10 | 685 | **199 025 286** | **199 025 316** | 3.710 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 025 DA (Double acting)
## With fixed flanges PP metric

**Model:**

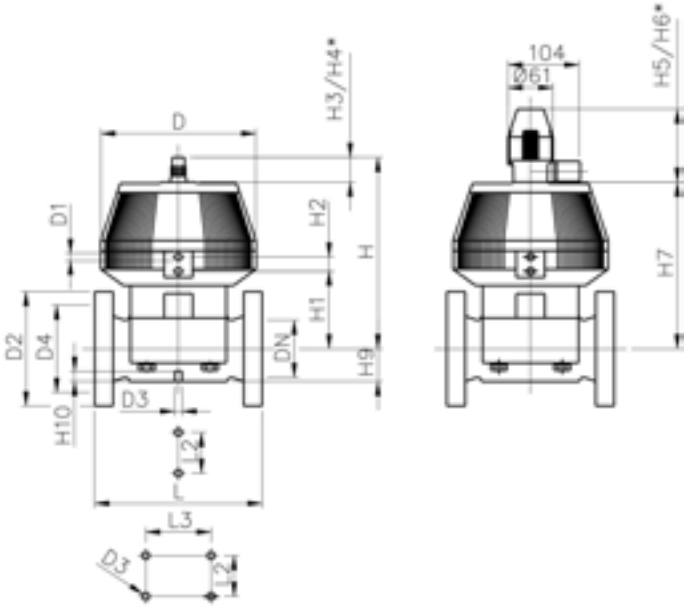
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

* with backing flanges PP-V
** with fixed flanges PP metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 287** | **199 025 317** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 288** | **199 025 318** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 289** | **199 025 319** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 290** | **199 025 320** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 028 FC (Fail safe to close)
## With fusion spigots metric

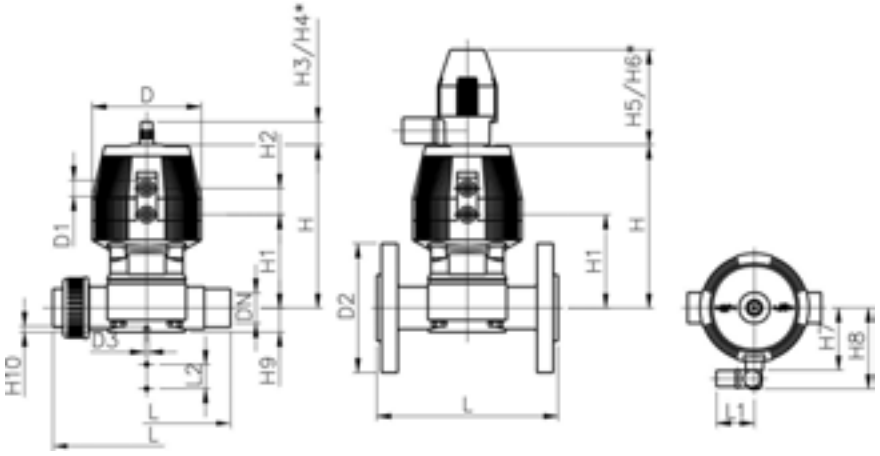
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 201** | **199 028 231** | 0.440 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 202** | **199 028 232** | 0.870 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 203** | **199 028 233** | 1.120 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 204** | **199 028 234** | 1.570 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 205** | **199 028 235** | 2.250 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 206** | **199 028 236** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 028 FC (Fail safe to close)
## With butt fusion spigots metric

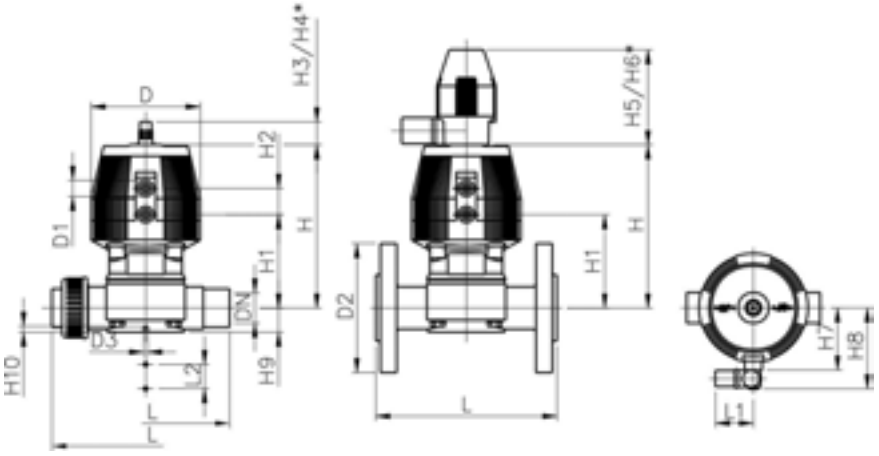
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 881** | **199 028 901** | 0.440 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 882** | **199 028 902** | 0.870 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 883** | **199 028 903** | 1.120 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 884** | **199 028 904** | 1.570 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 885** | **199 028 905** | 2.250 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 886** | **199 028 906** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 028 FC (Fail safe to close)
## Unions with butt fusion spigots metric

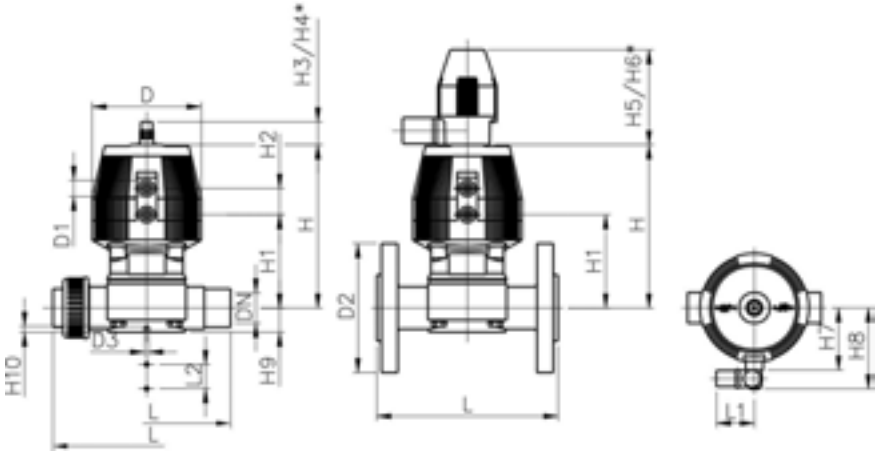
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 431** | **199 028 461** | 0.836 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 432** | **199 028 462** | 0.870 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 433** | **199 028 463** | 1.505 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 434** | **199 028 464** | 2.604 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 435** | **199 028 465** | 2.250 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 436** | **199 028 466** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 221 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 260 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 321 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 028 FC (Fail safe to close)
## Unions with fusion sockets metric

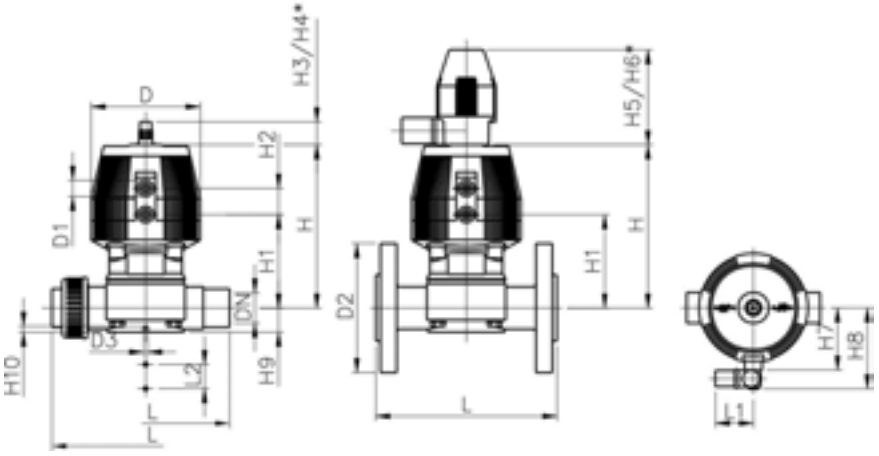
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 181** | **199 028 187** | 0.836 |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 182** | **199 028 188** | 0.870 |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 183** | **199 028 189** | 1.505 |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 184** | **199 028 190** | 2.400 |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 185** | **199 028 191** | 2.250 |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 186** | **199 028 192** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 99 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 130 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 143 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 170 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 203 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 220 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PP-H metric

## Diaphragm valve type DIASTAR PP-H
## Series 028 FC (Fail safe to close)
## With backing flanges PP-V metric

**Model:**

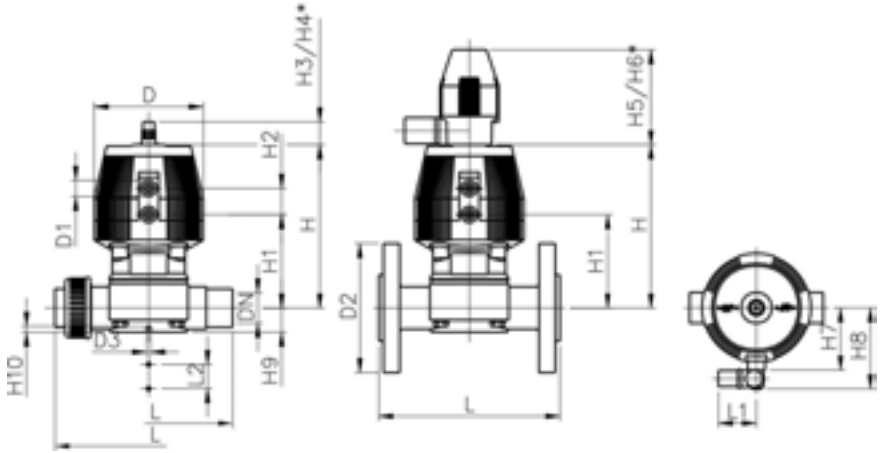
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | Inch | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 / 5 | * | 72 | **199 028 261** | **199 028 291** | 0.440 |
| 25 | 20 | ¾ | 10 / 7 | * | 120 | **199 028 262** | **199 028 292** | 0.870 |
| 32 | 25 | 1 | 10 / 7 | * | 238 | **199 028 263** | **199 028 293** | 1.120 |
| 40 | 32 | 1 ¼ | 10 / 7 | * | 341 | **199 028 264** | **199 028 294** | 1.570 |
| 50 | 40 | 1 ½ | 10 / 7 | * | 460 | **199 028 265** | **199 028 295** | 2.250 |
| 63 | 50 | 2 | 10 / 7 | * | 685 | **199 028 266** | **199 028 296** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 6 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 6 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 6 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



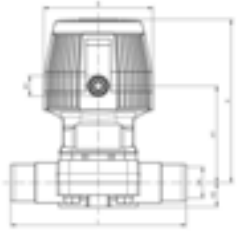
# PP-H metric

## Diaphragm valve type DIASTAR Eco PP-H FC (Fail safe to close) With socket fusion spigots metric

**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 251** | 0.486 |
| 25 | 20 | 6 | 120 | **199 024 252** | 0.988 |
| 32 | 25 | 6 | 238 | **199 024 253** | 1.202 |
| 40 | 32 | 6 | 341 | **199 024 254** | 1.781 |
| 50 | 40 | 6 | 460 | **199 024 255** | 2.296 |
| 63 | 50 | 6 | 685 | **199 024 256** | 2.826 |



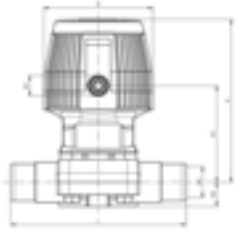
| d [mm] | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |

## Diaphragm valve type DIASTAR Eco PP-H FC (Fail safe to close) With IR butt fusion spigots metric

**Model:**

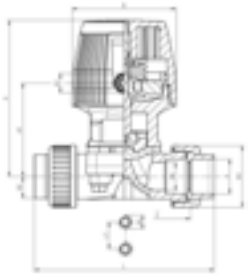
- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 281** | 0.481 |
| 25 | 20 | 6 | 120 | **199 024 282** | 0.981 |
| 32 | 25 | 6 | 238 | **199 024 283** | 1.195 |
| 40 | 32 | 6 | 341 | **199 024 284** | 1.773 |
| 50 | 40 | 6 | 460 | **199 024 285** | 2.272 |
| 63 | 50 | 6 | 685 | **199 024 286** | 2.790 |



| d [mm] | D [mm] | D1_G [inch] | D2 (M) | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 124 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 144 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 154 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 174 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 194 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 224 | 45 | 199 | 126 | 39 | 68 | 16 |

# PP-H metric



## Diaphragm valve type DIASTAR Eco PP-H FC (Fail safe to close) Unions with fusion socket metric

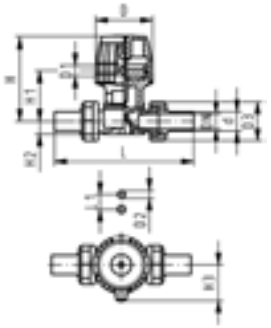
New

**Model:**

- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 311** | 0.548 |
| 25 | 20 | 6 | 120 | **199 024 312** | 1.086 |
| 32 | 25 | 6 | 238 | **199 024 313** | 1.326 |
| 40 | 32 | 6 | 341 | **199 024 314** | 1.991 |
| 50 | 40 | 6 | 460 | **199 024 315** | 2.574 |
| 63 | 50 | 6 | 685 | **199 024 316** | 3.285 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 47 | 128 | 25 | 99 | 59 | 14 | 44 | 8 | 100 |
| 25 | 96 | ⅛ | M6 | 57 | 150 | 25 | 130 | 71 | 18 | 56 | 10 | 118 |
| 32 | 96 | ⅛ | M6 | 64 | 162 | 25 | 143 | 85 | 21 | 56 | 12 | 126 |
| 40 | 120 | ⅛ | M8 | 78 | 184 | 45 | 170 | 97 | 26 | 68 | 14 | 144 |
| 50 | 120 | ⅛ | M8 | 89 | 2210 | 45 | 182 | 109 | 33 | 68 | 16 | 164 |
| 63 | 120 | ⅛ | M8 | 109 | 248 | 45 | 199 | 126 | 39 | 68 | 16 | 194 |



## Diaphragm valve type DIASTAR Eco PP-H FC (Fail safe to close) Unions with butt fusion spigot metric

New

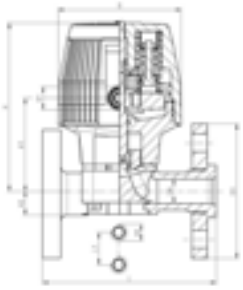
**Model:**

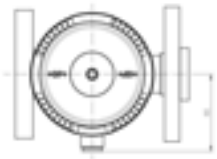
- Working pressure 6 bar one side

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 024 341** | 0.556 |
| 25 | 20 | 6 | 120 | **199 024 342** | 1.098 |
| 32 | 25 | 6 | 238 | **199 024 343** | 1.346 |
| 40 | 32 | 6 | 341 | **199 024 344** | 2.023 |
| 50 | 40 | 6 | 460 | **199 024 345** | 2.634 |
| 63 | 50 | 6 | 685 | **199 024 346** | 3.385 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 47 | 196 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 57 | 221 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 64 | 234 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 78 | 260 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 89 | 284 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 109 | 321 | 45 | 199 | 126 | 39 | 68 | 16 |

# PP-H metric





## Diaphragm valve type DIASTAR Eco PP-H FC (Fail safe to close) With backing flanges PP-V metric

New

**Model:**

- Working pressure 6 bar one side
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 6 | 72 | **199 024 371** | 0.633 |
| 25 | 20 | ¾ | 6 | 120 | **199 024 372** | 1.150 |
| 32 | 25 | 1 | 6 | 238 | **199 024 373** | 1.396 |
| 40 | 32 | 1 ¼ | 6 | 341 | **199 024 374** | 2.185 |
| 50 | 40 | 1 ½ | 6 | 460 | **199 024 375** | 2.983 |
| 63 | 50 | 2 | 6 | 685 | **199 024 376** | 3.708 |

| d [mm] | D [mm] | D1_G [inch] | D2 (M) | D3 [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | M6 | 95 | 130 | 25 | 99 | 59 | 14 | 44 | 8 |
| 25 | 96 | ⅛ | M6 | 105 | 150 | 25 | 130 | 71 | 18 | 56 | 10 |
| 32 | 96 | ⅛ | M6 | 115 | 160 | 25 | 143 | 85 | 21 | 56 | 12 |
| 40 | 120 | ⅛ | M8 | 140 | 180 | 45 | 170 | 97 | 26 | 68 | 14 |
| 50 | 120 | ⅛ | M8 | 150 | 200 | 45 | 182 | 109 | 33 | 68 | 16 |
| 63 | 120 | ⅛ | M8 | 165 | 230 | 45 | 199 | 126 | 39 | 68 | 16 |

# PP-H metric

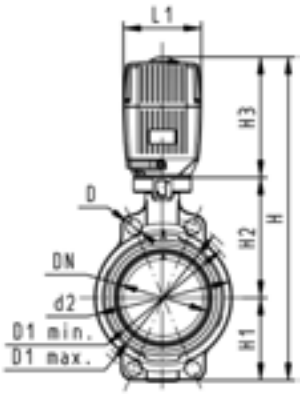
# Butterfly valves electric

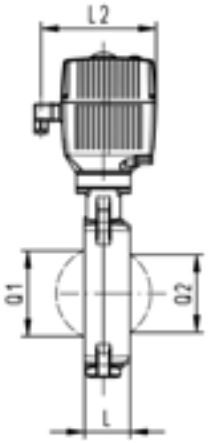
## Butterfly valve type 140 PP-H 100-230V Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 362** | **199 140 382** | 4.107 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 363** | **199 140 383** | 4.199 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 364** | **199 140 384** | 4.329 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 365** | **199 140 385** | 4.841 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 366** | **199 140 386** | 5.289 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 367** | **199 140 387** | 6.079 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 368** | **199 140 388** | 11.799 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PP-H metric

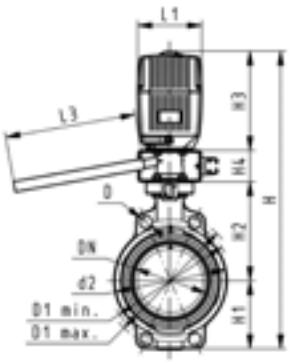
## Butterfly valve type 140 PP-H 100-230V With manual override

New

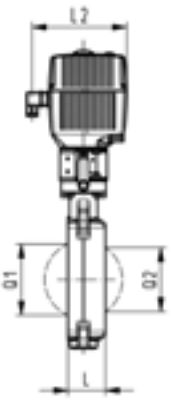
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 322** | **199 140 342** | 5.607 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 323** | **199 140 343** | 5.699 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 324** | **199 140 344** | 5.829 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 325** | **199 140 345** | 6.341 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 326** | **199 140 346** | 6.789 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 327** | **199 140 347** | 7.579 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 328** | **199 140 348** | 13.299 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |




| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

# PP-H metric

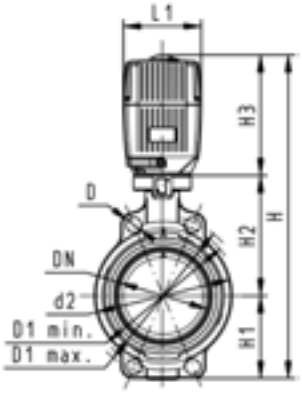
## Butterfly valve type 140 PP-H 24V Without manual override

New

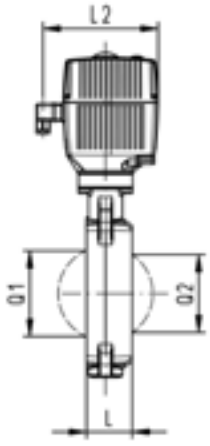
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 442** | **199 140 462** | 4.107 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 443** | **199 140 463** | 4.199 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 444** | **199 140 464** | 4.329 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 445** | **199 140 465** | 4.841 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 446** | **199 140 466** | 5.289 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 447** | **199 140 467** | 6.079 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 448** | **199 140 468** | 11.799 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |




| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

# PP-H metric

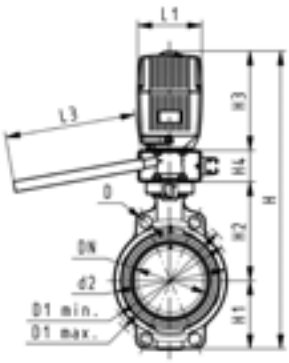
## Butterfly valve type 140 PP-H 24V
## With manual override

New

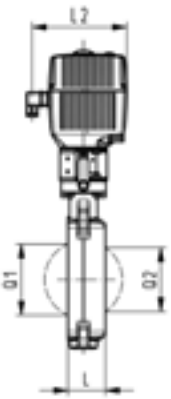
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 402** | **199 140 422** | 5.607 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 403** | **199 140 423** | 5.699 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 404** | **199 140 424** | 5.829 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 405** | **199 140 425** | 6.341 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 406** | **199 140 426** | 6.789 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 407** | **199 140 427** | 7.579 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 408** | **199 140 428** | 13.299 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |




| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

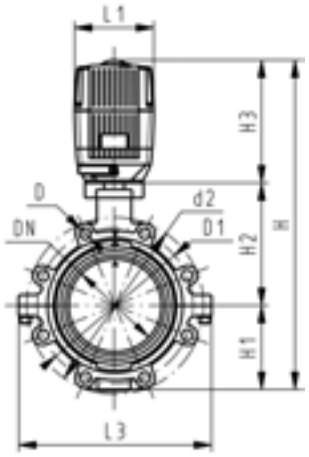
# PP-H metric

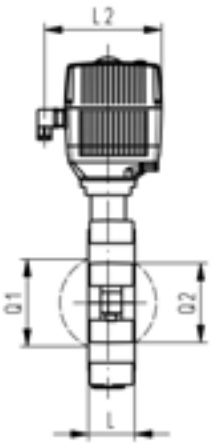
## Butterfly valve type 141 PP-H 100-230V Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 362** | **199 141 382** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 363** | **199 141 383** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 364** | **199 141 384** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 365** | **199 141 385** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 366** | **199 141 386** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 367** | **199 141 387** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 368** | **199 141 388** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

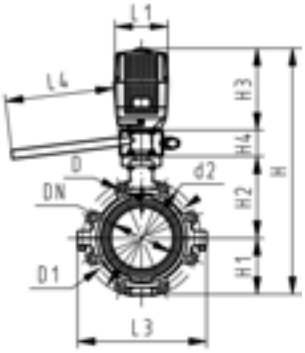
# PP-H metric

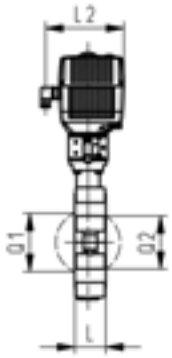
## Butterfly valve type 141 PP-H 100-230V With manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 322** | **199 141 342** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 323** | **199 141 343** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 324** | **199 141 344** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 325** | **199 141 345** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 326** | **199 141 346** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 327** | **199 141 347** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 328** | **199 141 348** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

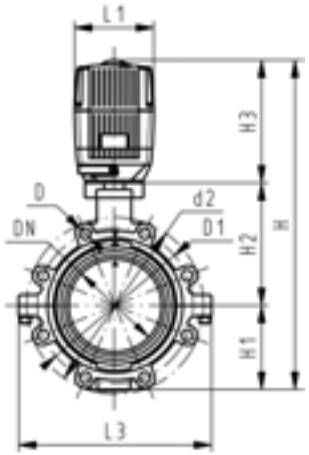
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

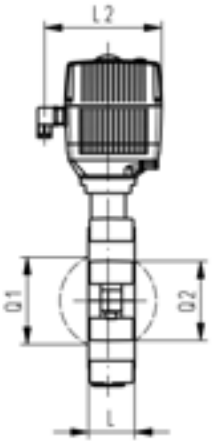
# PP-H metric

## Butterfly valve type 141 PP-H 24V
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 442** | **199 141 462** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 443** | **199 141 463** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 444** | **199 141 464** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 445** | **199 141 465** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 446** | **199 141 466** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 447** | **199 141 467** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 448** | **199 141 468** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

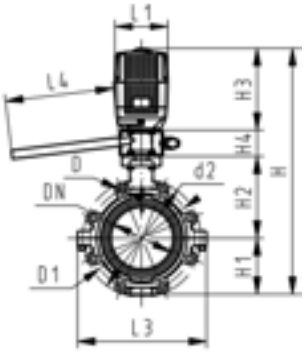
# PP-H metric

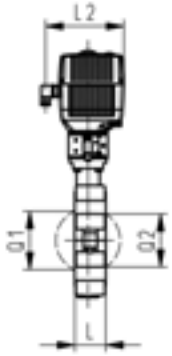
## Butterfly valve type 141 PP-H 24V
## With manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 402** | **199 141 422** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 403** | **199 141 423** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 404** | **199 141 424** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 405** | **199 141 425** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 406** | **199 141 426** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 407** | **199 141 427** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 408** | **199 141 428** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

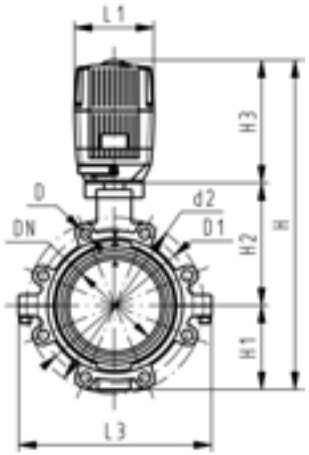
# PP-H metric

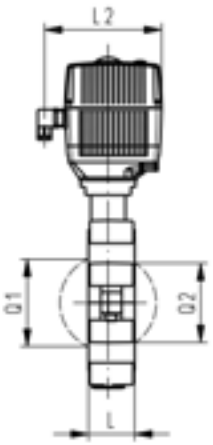
## Butterfly valve type 142 PP-H 100-230V Without manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 362** | **199 142 382** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 363** | **199 142 383** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 364** | **199 142 384** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 365** | **199 142 385** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 366** | **199 142 386** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 367** | **199 142 387** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 368** | **199 142 388** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

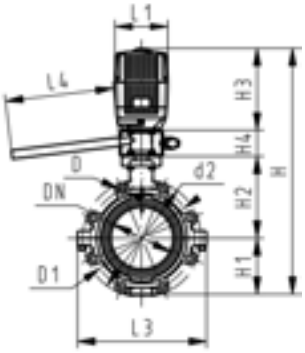
| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

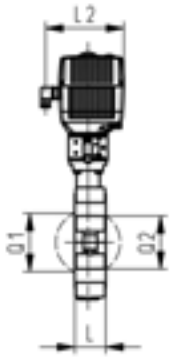
# PP-H metric

## Butterfly valve type 142 PP-H 100-230V With manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 322** | **199 142 342** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 323** | **199 142 343** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 324** | **199 142 344** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 325** | **199 142 345** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 326** | **199 142 346** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 327** | **199 142 347** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 328** | **199 142 348** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

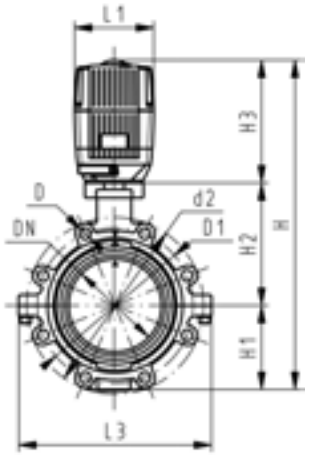
# PP-H metric

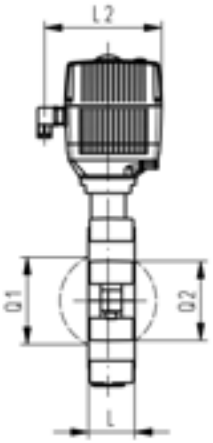
## Butterfly valve type 142 PP-H 24V
## Without manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 442** | **199 142 462** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 443** | **199 142 463** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 444** | **199 142 464** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 445** | **199 142 465** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 446** | **199 142 466** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 447** | **199 142 467** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 448** | **199 142 468** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

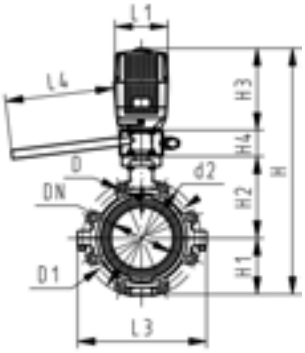
| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

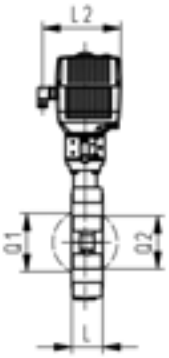
# PP-H metric

## Butterfly valve type 142 PP-H 24V With manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 402** | **199 142 422** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 403** | **199 142 423** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 404** | **199 142 424** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 405** | **199 142 425** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 406** | **199 142 426** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 407** | **199 142 427** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 408** | **199 142 428** |

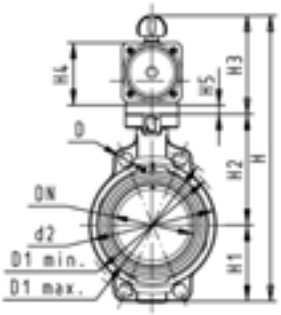
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

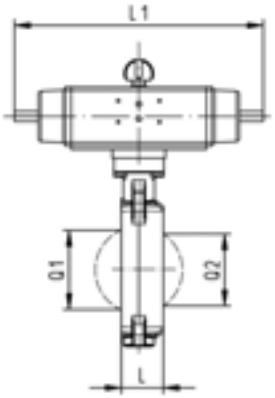
| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

# PP-H metric

# Butterfly valves pneumatic

## Butterfly valve type 240 PP-H
## FC (Fail safe to close)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 282** | **199 240 302** | 3.147 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 283** | **199 240 303** | 3.239 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 284** | **199 240 304** | 3.369 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 285** | **199 240 305** | 5.079 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 286** | **199 240 306** | 6.529 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 287** | **199 240 307** | 9.640 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 288** | **199 240 308** | 13.299 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FC | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FC | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FC | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FC | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FC | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FC | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

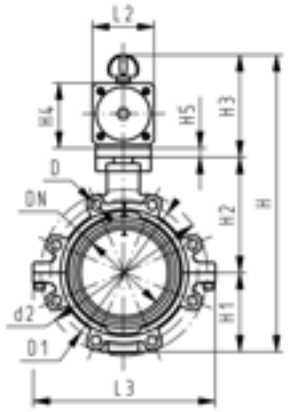
# PP-H metric

## Butterfly valve type 241 PP-H
## FC (Fail safe to close)
## Without manual override

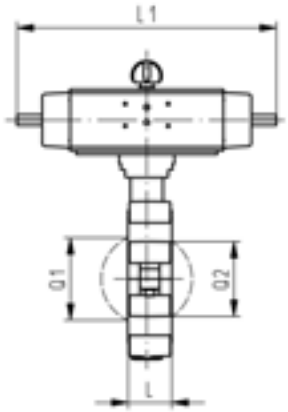
**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 282** | **199 241 302** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 283** | **199 241 303** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 284** | **199 241 304** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 285** | **199 241 305** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 286** | **199 241 306** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 287** | **199 241 307** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 288** | **199 241 308** |




| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FC | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FC | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FC | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FC | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FC | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FC | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |




| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

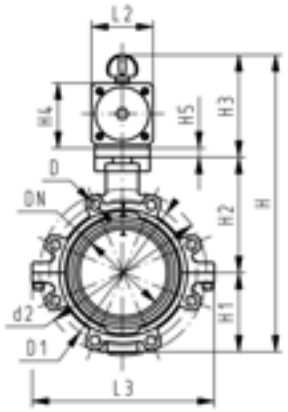
# PP-H metric

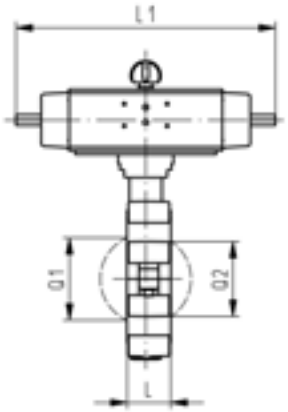
## Butterfly valve type 242 PP-H
## FC (Fail safe to close)
## Without manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)



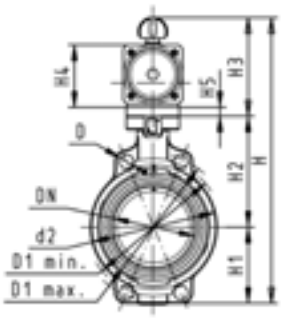

| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 282** | **199 242 302** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 283** | **199 242 303** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 284** | **199 242 304** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 285** | **199 242 305** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 286** | **199 242 306** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 287** | **199 242 307** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 288** | **199 242 308** |

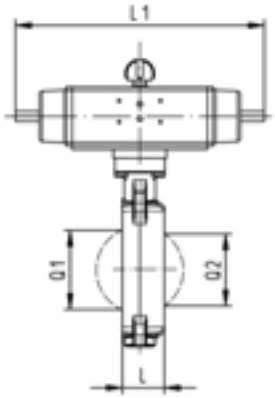
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FC | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FC | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FC | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FC | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FC | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FC | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FC | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PP-H metric

## Butterfly valve type 240 PP-H
## FO (Fail safe to open)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 322** | **199 240 342** | 3.147 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 323** | **199 240 343** | 3.239 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 324** | **199 240 344** | 3.369 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 325** | **199 240 345** | 5.079 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 326** | **199 240 346** | 6.529 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 327** | **199 240 347** | 9.640 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 328** | **199 240 348** | 13.299 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FO | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FO | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FO | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FO | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FO | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FO | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

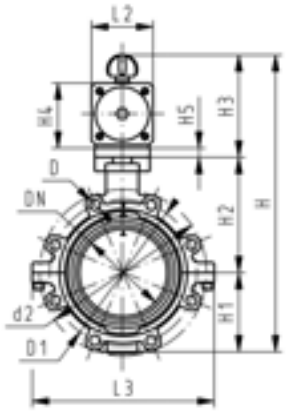
# PP-H metric

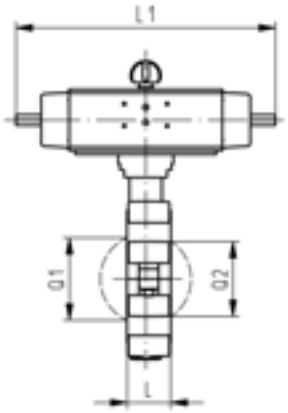
## Butterfly valve type 241 PP-H
## FO (Fail safe to open)
## Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 322** | **199 241 342** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 323** | **199 241 343** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 324** | **199 241 344** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 325** | **199 241 345** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 326** | **199 241 346** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 327** | **199 241 347** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 328** | **199 241 348** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FO | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FO | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FO | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FO | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FO | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FO | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |

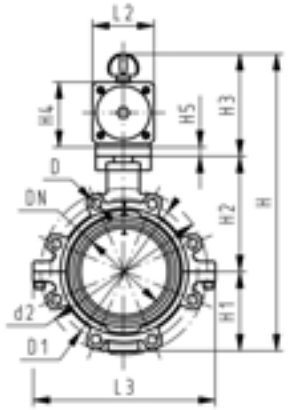
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

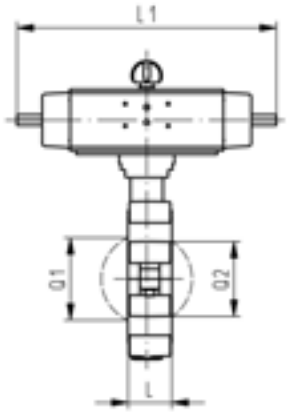
# PP-H metric

## Butterfly valve type 242 PP-H
## FO (Fail safe to open)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)



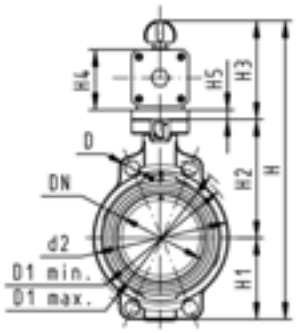

| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 322** | **199 242 342** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 323** | **199 242 343** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 324** | **199 242 344** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 325** | **199 242 345** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 326** | **199 242 346** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 327** | **199 242 347** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 328** | **199 242 348** |

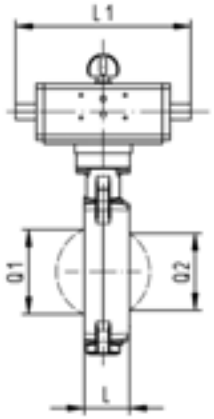
| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FO | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FO | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FO | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FO | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FO | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FO | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FO | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PP-H metric

## Butterfly valve type 240 PP-H
## DA (Double acting)
## Without manual override




**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 362** | **199 240 382** | 1.997 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 363** | **199 240 383** | 2.089 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 364** | **199 240 384** | 2.700 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 365** | **199 240 385** | 3.331 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 366** | **199 240 386** | 3.779 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 367** | **199 240 387** | 6.119 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 368** | **199 240 388** | 7.299 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | 19 | 120.0 | 125.0 | 104 | 317 | 77 | 134 | 107 | 60 | 15 | 45 | 177 |
| 75 | PA-35 DA | 19 | 139.7 | 145.0 | 115 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 |
| 90 | PA-40 DA | 19 | 150.0 | 160.0 | 131 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 |
| 110 | PA-45 DA | 19 | 175.0 | 190.5 | 161 | 372 | 104 | 167 | 102 | 71 | | 56 | 198 |
| 140 | PA-45 DA | 23 | 210.0 | 215.9 | 187 | 408 | 117 | 181 | 111 | 78 | | 64 | 235 |
| 160 | PA-55 DA | 24 | 241.3 | 241.3 | 215 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 |
| 225 | PA-55 DA | 23 | 290.0 | 295.0 | 267 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 |

| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 55 | 40 | |
| 75 | 55 | 54 | 35 |
| 90 | 60 | 67 | 50 |
| 110 | 65 | 88 | 74 |
| 140 | 72 | 113 | 97 |
| 160 | 80 | 139 | 123 |
| 225 | 90 | 178 | 169 |

# PP-H metric

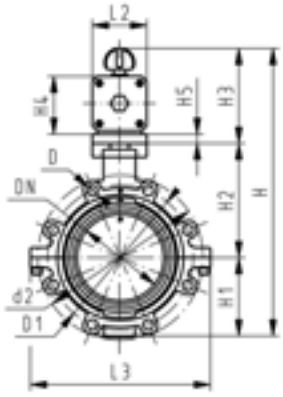
## Butterfly valve type 241 PP-H
## DA (Double acting)
## Without manual override

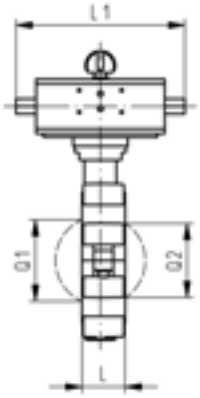
New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 362** | **199 241 382** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 363** | **199 241 383** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 364** | **199 241 384** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 365** | **199 241 385** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 366** | **199 241 386** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 367** | **199 241 387** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 368** | **199 241 388** |




| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | M16 | 125 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 | 150 |
| 75 | PA-35 DA | M16 | 145 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 | 160 |
| 90 | PA-40 DA | M16 | 160 | 184 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 | 205 |
| 110 | PA-45 DA | M16 | 180 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 | 244 |
| 140 | PA-45 DA | M16 | 210 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 | 272 |
| 160 | PA-55 DA | M20 | 240 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 | 297 |
| 225 | PA-55 DA | M20 | 295 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 | 360 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

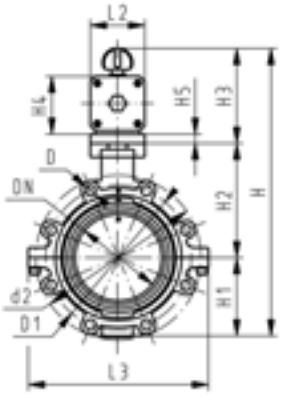
# PP-H metric

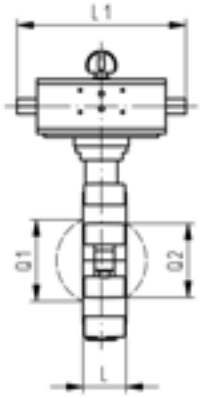
## Butterfly valve type 242 PP-H
## DA (Double acting)
## Without manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code |
|---|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 362** | **199 242 382** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 363** | **199 242 383** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 364** | **199 242 384** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 365** | **199 242 385** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 366** | **199 242 386** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 367** | **199 242 387** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 368** | **199 242 388** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-35 DA | UNC 5/8 | 121 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 |
| 2 ½ | PA-35 DA | UNC 5/8 | 140 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 |
| 3 | PA-40 DA | UNC 5/8 | 153 | 177 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 |
| 4 | PA-45 DA | UNC 5/8 | 191 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 |
| 5 | PA-45 DA | UNC 3/4 | 216 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 |
| 6 | PA-55 DA | UNC 3/4 | 242 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 |
| 8 | PA-55 DA | UNC 3/4 | 299 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# PP-H metric

# Process control valves

## Pressure reducing valve type V 82 PP-H
## With fusion spigots metric

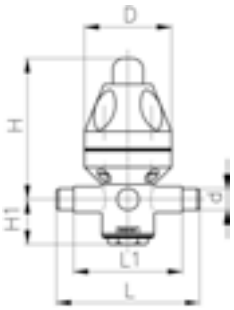
| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 032** | **199 041 042** | 0.550 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 033** | **199 041 043** | 0.550 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 034** | **199 041 044** | 1.030 | 100 | 174 | 180 | 134 |
| 32 | 25 | 0.5 - 10 | **199 041 035** | **199 041 045** | 1.300 | 100 | 174 | 180 | 134 |
| 40 | 32 | 0.5 - 10 | **199 041 036** | **199 041 046** | 2.240 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 037** | **199 041 047** | 2.240 | 130 | 224 | 230 | 175 |
| 63 | 50 | 0.5 - 10 | **199 041 038** | **199 041 048** | 3.960 | 150 | 244 | 285 | 210 |
| 75 | 65 | 0.5 - 6 | **199 041 039** | **199 041 049** | 7.900 | 200 | 300 | 350 | 250 |
| 90 | 80 | 0.5 - 6 | **199 041 040** | **199 041 050** | 12.900 | 250 | 360 | 425 | 305 |
| 110 | 100 | 0.5 - 4 | **199 041 041** | **199 041 051** | 23.300 | 300 | 420 | 495 | 345 |

## Pressure reducing valve type V 182 PP-H
## With fusion spigots metric

| d [mm] | DN [mm] | Pressure range [bar] | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 631** | 0.540 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 632** | 0.540 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 633** | 1.020 | 100 | 174 | 180 | 134 |
| 32 | 25 | 0.5 - 10 | **199 041 634** | 1.300 | 100 | 174 | 180 | 134 |
| 40 | 32 | 0.5 - 10 | **199 041 635** | 2.240 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 636** | 2.240 | 130 | 224 | 230 | 175 |

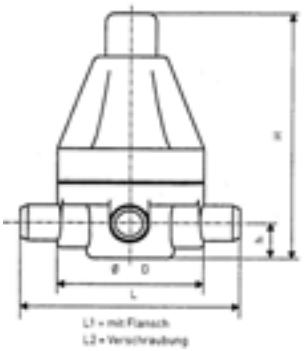
# PP-H metric

## Pressure reducing valve type V 782 PP-H
## With fusion spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 072** | **199 041 078** | 0.450 | 83 | 134 | 102 | 138 | 48 | |
| 20 | 15 | 0.5 - 10 | **199 041 073** | **199 041 079** | 0.460 | 83 | 134 | 102 | 138 | 48 | |
| 25 | 20 | 0.5 - 10 | **199 041 074** | **199 041 080** | 1.240 | 113 | 154 | 110 | 205 | 65 | |
| 32 | 25 | 0.5 - 10 | **199 041 075** | **199 041 081** | 1.250 | 113 | 154 | 110 | 205 | 65 | |
| 40 | 32 | 0.5 - 10 | **199 041 076** | **199 041 082** | 3.910 | 165 | 224 | 162 | 248 | 95 | |
| 50 | 40 | 0.5 - 10 | **199 041 077** | **199 041 083** | 3.930 | 165 | 224 | 162 | 248 | 95 | |

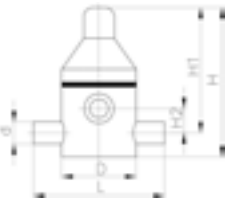
## Pressure relief valve type V 185 PP-H
## With fusion spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 337** | | 83 | 134 | 137 | 20 | |
| 20 | 15 | 0.5 - 10 | **199 041 338** | 0.300 | 83 | 134 | 137 | 20 | |
| 25 | 20 | 0.5 - 10 | **199 041 339** | 0.300 | 83 | 134 | 137 | 20 | |
| 32 | 25 | 0.5 - 10 | **199 041 340** | 0.900 | 112 | 174 | 199 | 27 | |
| 40 | 32 | 0.5 - 10 | **199 041 341** | 0.900 | 112 | 174 | 199 | 43 | |
| 50 | 40 | 0.5 - 10 | **199 041 342** | 4.400 | 165 | 224 | 290 | 43 | |
| 63 | 50 | 0.5 - 10 | **199 041 343** | 4.500 | 165 | 244 | 290 | 43 | |

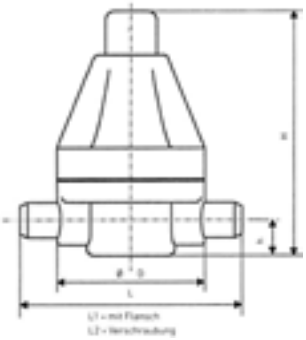
# PP-H metric

## Pressure relief valve type V 85 PP-H
## With fusion spigots metric



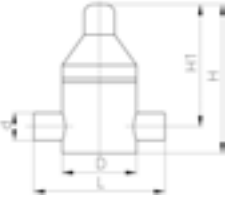
| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 1.0 - 6 | **199 041 926** | **199 041 895** | 6.300 | 180 | 284 | 295 | 250 | 70 |
| 90 | 80 | 1.0 - 6 | **199 041 893** | **199 041 896** | 9.500 | 200 | 300 | 400 | 340 | 95 |
| 110 | 100 | 1.0 - 4 | **199 041 894** | **199 041 897** | 19.900 | 250 | 380 | 475 | 405 | 110 |

## Pressure retaining valve type V 186 PP-H
## With fusion spigots metric



| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 316** | 0.300 | 83 | 134 | 137 | 20 |
| 20 | 15 | 0.5 - 10 | **199 041 317** | 0.300 | 83 | 134 | 137 | 20 |
| 25 | 20 | 0.5 - 10 | **199 041 318** | 0.300 | 83 | 134 | 137 | 20 |
| 32 | 25 | 0.5 - 10 | **199 041 319** | 0.900 | 112 | 174 | 199 | 27 |
| 40 | 32 | 0.5 - 10 | **199 041 320** | 0.900 | 112 | 174 | 199 | 43 |
| 50 | 40 | 0.5 - 10 | **199 041 321** | 4.400 | 165 | 224 | 290 | 43 |
| 63 | 50 | 0.5 - 10 | **199 041 322** | 4.500 | 165 | 244 | 290 | 43 |

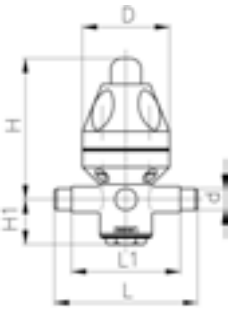
## Pressure retaining valve type V 86 PP-H
## With fusion spigots metric



| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 0.2 - 4 | **199 041 882** | **199 041 887** | 5.900 | 180 | 284 | 275 | 230 |
| 75 | 65 | 1.0 - 6 | **199 041 883** | **199 041 888** | 5.900 | 180 | 284 | 275 | 230 |
| 90 | 80 | 0.2 - 4 | **199 041 884** | **199 041 889** | 12.900 | 250 | 360 | 410 | 320 |
| 90 | 80 | 1.0 - 6 | **199 041 885** | **199 041 890** | 12.900 | 250 | 360 | 410 | 320 |
| 110 | 100 | 1.0 - 4 | **199 041 886** | **199 041 891** | 14.500 | 250 | 380 | 485 | 415 |

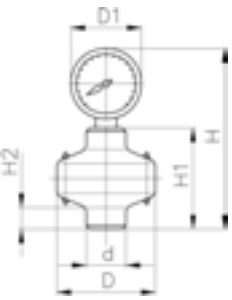
# PP-H metric

## Pressure retaining valve type V 786 PP-H
## With fusion spigots metric




| d [mm] | DN [mm] | Pressure range [bar] | EPDM Code | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 102** | **199 041 108** | 0.450 | 83 | 134 | 102 | 138 | 38 | |
| 20 | 15 | 0.5 - 10 | **199 041 103** | **199 041 109** | 0.450 | 83 | 134 | 102 | 138 | 38 | |
| 25 | 20 | 0.5 - 10 | **199 041 104** | **199 041 110** | 1.280 | 112 | 154 | 110 | 205 | 55 | |
| 32 | 25 | 0.5 - 10 | **199 041 105** | **199 041 111** | 1.280 | 112 | 154 | 110 | 205 | 55 | |
| 40 | 32 | 0.5 - 4 | **199 041 106** | **199 041 112** | 3.480 | 165 | 224 | 162 | 248 | 85 | |
| 50 | 40 | 0.5 - 4 | **199 041 107** | **199 041 113** | 3.480 | 165 | 224 | 162 | 248 | 85 | |

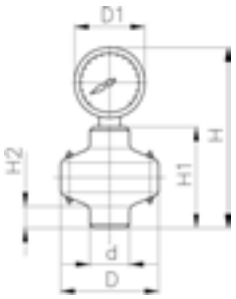
## Gauge guard type Z 700 PP-H
## With manometer 0-10 bar




| d [mm] | PTFE Code | kg | G_R | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 25 | **199 041 002** | 0.250 | ¼ | 72 | 63 | 129 | 71 | 15 | |
| 32 | **199 041 003** | 0.540 | ½ | 100 | 100 | 210 | 90 | 22 | |

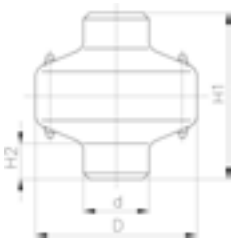
# PP-H metric

## Gauge guard type Z 700 PP-H
## With manometer 0-6 bar




| d [mm] | PTFE Code | kg | G_R | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 25 | **199 041 294** | 0.250 | ¼ | 72 | 63 | 129 | 71 | 15 |
| 32 | **199 041 295** | 0.540 | ½ | 100 | 100 | 210 | 90 | 22 |

## Gauge guard type Z 701 PP-H
## Without manometer



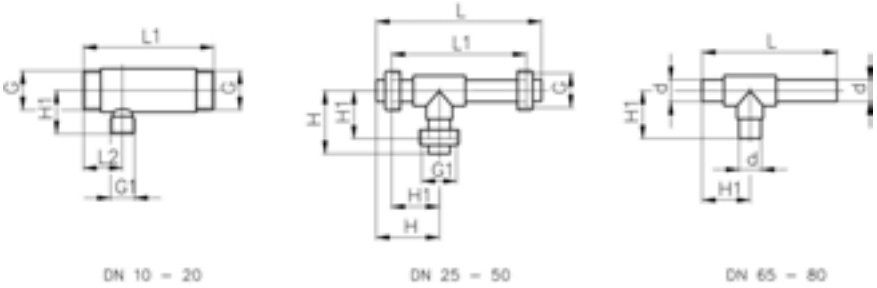

| d [mm] | PTFE Code | kg | G_R | D [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|
| 25 | **199 041 008** | 0.100 | ¼ | 72 | 71 | 15 |
| 32 | **199 041 009** | 0.170 | ½ | 100 | 90 | 22 |

# PP-H metric

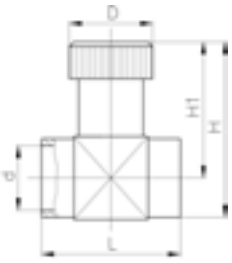
## Water jet suction pump type P 20 PP-H

- DN 10-20: BSP parallel female thread
- DN 25-50: Fusion socket metric
- DN 65-80: Fusion spigot metric

| d [mm] | DN [mm] | PN | EPDM Code | kg | G [inch] | G1 [inch] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 129** | 0.100 | R 3/4 | R 3/4 | | 110 | 40 | | 35 |
| 20 | 15 | 10 | **199 041 130** | 0.170 | R 1 | R 3/4 | | 125 | 40 | | 35 |
| 25 | 20 | 10 | **199 041 131** | 0.270 | R 1 1/4 | R 3/4 | | 145 | 45 | | 45 |
| 32 | 25 | 10 | **199 041 132** | 0.400 | R 1 1/2 | R 1 1/2 | 245 | 195 | | 96 | 71 |
| 40 | 32 | 10 | **199 041 133** | 0.690 | R 2 | R 2 | 297 | 239 | | 116 | 87 |
| 50 | 40 | 10 | **199 041 134** | 1.090 | R 2 1/4 | R 2 1/4 | 369 | 301 | | 139 | 105 |
| 63 | 50 | 10 | **199 041 135** | 1.930 | R 2 3/4 | R 2 3/4 | 433 | 351 | | 169 | 128 |
| 75 | 65 | 10 | **199 041 136** | 1.510 | R 1 | - | 388 | | | | 115 |
| 90 | 80 | 10 | **199 041 137** | 2.570 | R 2 3/4 | - | 465 | | | | 149 |



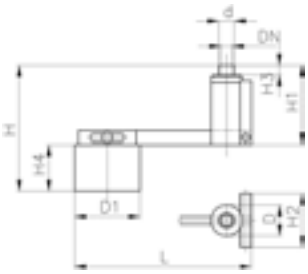

DN 10 – 20 DN 25 – 50 DN 65 – 80




## Throttle valve type V 251 PP-H
## With fusion sockets metric

| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 217** | **199 041 224** | 0.100 | 29 | 47 | 57 | 45 |
| 20 | 15 | 10 | **199 041 218** | **199 041 225** | 0.124 | 35 | 55 | 66 | 51 |
| 25 | 20 | 10 | **199 041 219** | **199 041 226** | 0.080 | 40 | 66 | 80 | 63 |
| 32 | 25 | 10 | **199 041 220** | **199 041 227** | 0.150 | 47 | 80 | 96 | 75 |
| 40 | 32 | 10 | **199 041 221** | **199 041 228** | - | 56 | 100 | 111 | 86 |
| 50 | 40 | 10 | **199 041 222** | **199 041 229** | 0.419 | 70 | 120 | 133 | 101 |
| 63 | 50 | 10 | **199 041 223** | **199 041 230** | 0.600 | 88 | 146 | 158 | 118 |

# PP-H metric




## Float valve type V 140 PP-H
## With fusion spigots metric

- Lever 1:10

| d [mm] | DN [mm] | PN | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 6 | **199 041 165** | **199 041 174** | 0.460 |
| 20 | 15 | 6 | **199 041 166** | **199 041 175** | 0.500 |
| 25 | 20 | 6 | **199 041 167** | **199 041 176** | 1.382 |
| 32 | 25 | 6 | **199 041 168** | **199 041 177** | 2.140 |
| 40 | 32 | 6 | **199 041 169** | **199 041 178** | 3.250 |
| 50 | 40 | 6 | **199 041 170** | **199 041 179** | 4.400 |
| 63 | 50 | 6 | **199 041 171** | **199 041 180** | 5.800 |
| 75 | 65 | 6 | **199 041 172** | **199 041 181** | 7.400 |
| 90 | 80 | 6 | **199 041 173** | **199 041 182** | 8.200 |

| d [mm] | D [mm] | D1 [mm] | L [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 45 | 125 | 380 | 270 | 120 | 80 | 14 | 130 |
| 20 | 45 | 125 | 380 | 270 | 120 | 80 | 16 | 130 |
| 25 | 65 | 160 | 530 | 340 | 160 | 110 | 19 | 170 |
| 32 | 65 | 160 | 530 | 345 | 165 | 110 | 22 | 170 |
| 40 | 90 | 225 | 720 | 440 | 210 | 130 | 26 | 210 |
| 50 | 90 | 225 | 720 | 445 | 215 | 130 | 31 | 210 |
| 63 | 130 | 315 | 975 | 595 | 255 | 160 | 38 | 290 |
| 75 | 130 | 315 | 975 | 600 | 260 | 160 | 44 | 290 |
| 90 | 150 | 355 | 1140 | 640 | 290 | 180 | 51 | 340 |

# PP-H metric

# PROGEF® Natural


| | | Page |
|---|---|---|
| | Diaphragm valves pneumatic | 442 |

# PROGEF® Natural

# Diaphragm valves pneumatic

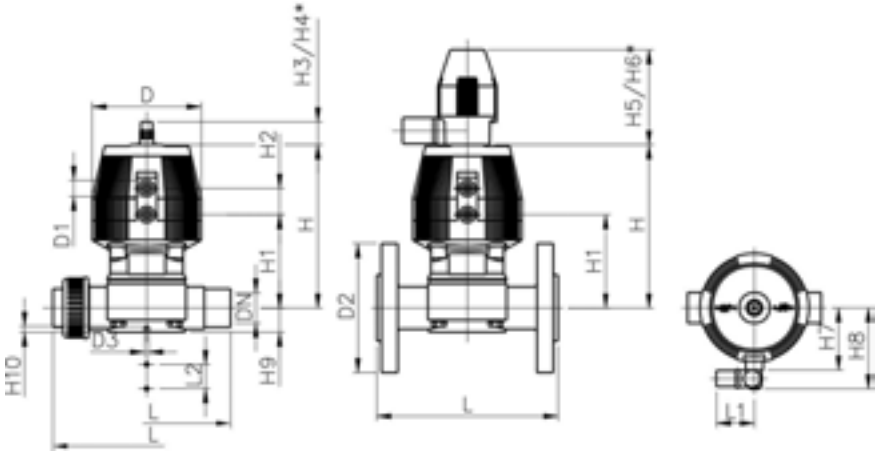
## PROGEF® Natural
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With butt fusion spigots metric

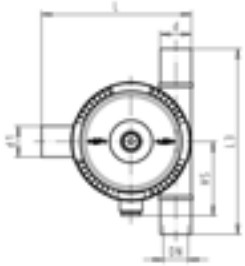
- With position indicator / Working pressure: both sides

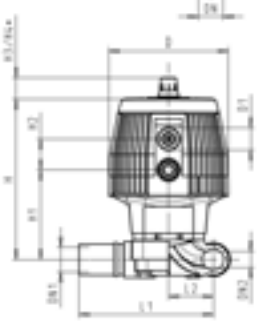
| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 521** | **199 027 551** | 0.839 |
| 25 | 20 | 10 | 120 | **199 027 522** | **199 027 552** | 0.936 |
| 32 | 25 | 10 | 238 | **199 027 523** | **199 027 553** | 1.705 |
| 40 | 32 | 10 | 341 | **199 027 524** | **199 027 554** | 0.238 |
| 50 | 40 | 10 | 460 | **199 027 525** | **199 027 555** | 4.665 |
| 63 | 50 | 10 | 685 | **199 027 526** | **199 027 556** | 5.353 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |







## PROGEF® Natural
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## ZERO STATIC with butt fusion spigots ISO/DIN

- With position indicator
- DN2: for coordination of accessoires

| d [mm] | d1 [mm] | DN [mm] | DN1 [mm] | DN2 [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE Code | kg |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 15 | 15 | 10 | 47 | **199 029 421** | **199 029 381** | 1.510 |
| 25 | 20 | 20 | 15 | 20 | 10 | 69 | **199 029 422** | **199 029 382** | 2.013 |
| 25 | 25 | 20 | 20 | 20 | 10 | 91 | **199 029 423** | **199 029 383** | 2.013 |
| 32 | 20 | 25 | 15 | 25 | 10 | 86 | **199 029 424** | **199 029 384** | 2.567 |
| 32 | 25 | 25 | 20 | 25 | 10 | 126 | **199 029 425** | **199 029 385** | 2.566 |
| 32 | 32 | 25 | 25 | 25 | 10 | 156 | **199 029 426** | **199 029 386** | 2.561 |
| 40 | 20 | 32 | 15 | 25 | 10 | 84 | **199 029 427** | **199 029 387** | 2.599 |
| 50 | 20 | 40 | 15 | 25 | 10 | 82 | **199 029 431** | **199 029 391** | 2.642 |
| 50 | 25 | 40 | 20 | 25 | 10 | 124 | **199 029 432** | **199 029 392** | 2.641 |
| 50 | 32 | 40 | 25 | 25 | 10 | 159 | **199 029 433** | **199 029 393** | 2.641 |
| 63 | 20 | 50 | 15 | 25 | 10 | 81 | **199 029 436** | **199 029 396** | 2.715 |
| 63 | 25 | 50 | 20 | 25 | 10 | 115 | **199 029 437** | **199 029 397** | 2.714 |
| 63 | 32 | 50 | 25 | 25 | 10 | 156 | **199 029 438** | **199 029 398** | 2.711 |
| 90 | 20 | 80 | 15 | 25 | 6 | 88 | **199 029 445** | **199 029 405** | 2.742 |
| 90 | 25 | 80 | 20 | 25 | 6 | 133 | **199 029 446** | **199 029 406** | 2.756 |
| 90 | 32 | 80 | 25 | 25 | 6 | 162 | **199 029 447** | **199 029 407** | 2.737 |
| 90 | 50 | 80 | 40 | 50 | 6 | 504 | **199 029 448** | **199 029 408** | 5.679 |
| 90 | 63 | 80 | 50 | 50 | 6 | 530 | **199 029 449** | **199 029 409** | 5.679 |
| 110 | 20 | 100 | 15 | 25 | 6 | 89 | **199 029 450** | **199 029 410** | 2.837 |
| 110 | 25 | 100 | 20 | 25 | 6 | 123 | **199 029 451** | **199 029 411** | 2.835 |
| 110 | 32 | 100 | 25 | 25 | 6 | 159 | **199 029 452** | **199 029 412** | 2.834 |
| 110 | 50 | 100 | 40 | 50 | 6 | 503 | **199 029 453** | **199 029 413** | 5.869 |
| 110 | 63 | 100 | 50 | 40 | 6 | 543 | **199 029 454** | **199 029 414** | 5.822 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 106 | 96 | 30 | 140 | 128 | 69 | 25 | 23 | 44 | 56 | 96 | ⅛ | 8 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |

# PROGEF® Natural

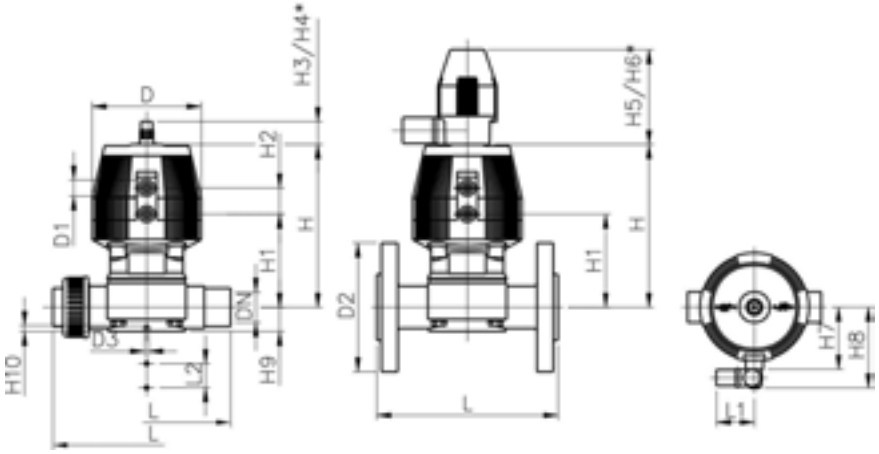
## PROGEF® Natural
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## With butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 531** | **199 027 561** | 0.454 |
| 25 | 20 | 10 | 120 | **199 027 532** | **199 027 562** | 0.740 |
| 32 | 25 | 10 | 238 | **199 027 533** | **199 027 563** | 1.160 |
| 40 | 32 | 10 | 341 | **199 027 534** | **199 027 564** | 1.390 |
| 50 | 40 | 10 | 460 | **199 027 535** | **199 027 565** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 536** | **199 027 566** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



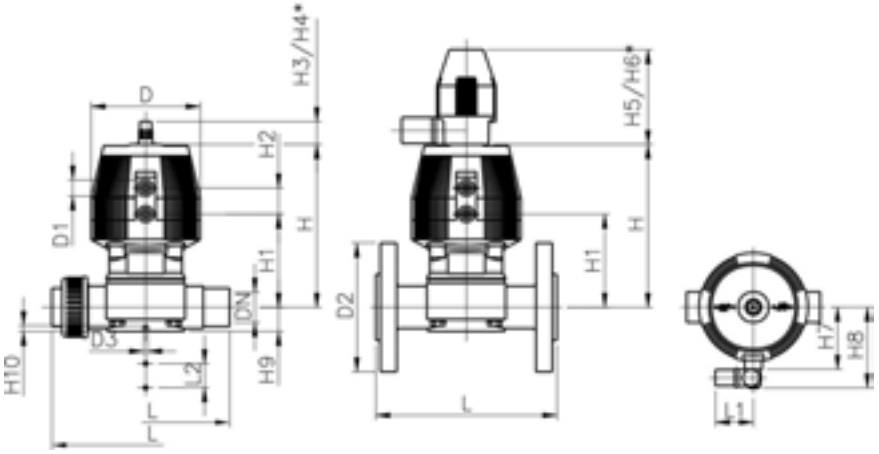
## PROGEF® Natural
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## With butt fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 541** | **199 027 571** | 0.454 |
| 25 | 20 | 10 | 120 | **199 027 542** | **199 027 572** | 0.740 |
| 32 | 25 | 10 | 238 | **199 027 543** | **199 027 573** | 1.160 |
| 40 | 32 | 10 | 341 | **199 027 544** | **199 027 574** | 1.390 |
| 50 | 40 | 10 | 460 | **199 027 545** | **199 027 575** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 546** | **199 027 576** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# PROGEF® Natural

## PROGEF® Natural
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## With butt fusion spigots metric

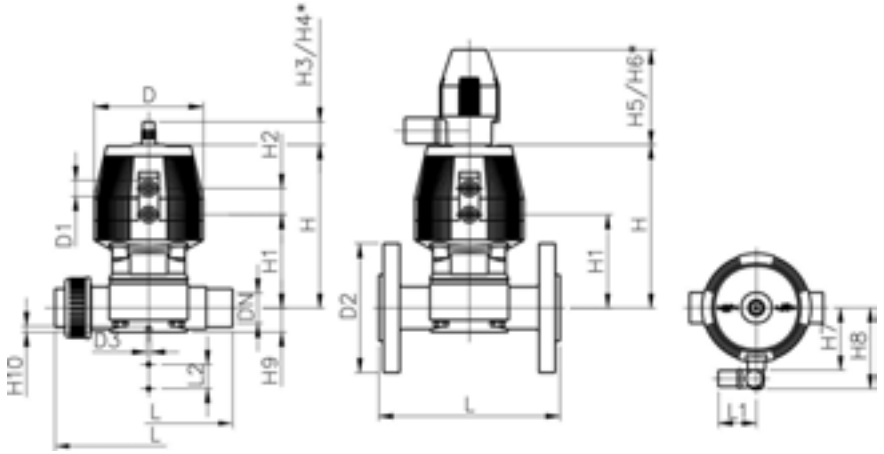
- With position indicator / Working pressure: **one side**

*PN: EPDM/PTFE

| d [mm] | DN [mm] | PN [bar] | | kv-value (Δp=1 bar) [l/min] | EPDM Code | PTFE/EPDM Code |
|---|---|---|---|---|---|---|
| 20 | 15 | 10 / 5 | * | 72 | **199 028 521** | **199 028 551** |
| 25 | 20 | 10 / 7 | * | 120 | **199 028 522** | **199 028 552** |
| 32 | 25 | 10 / 7 | * | 238 | **199 028 523** | **199 028 553** |
| 40 | 32 | 10 / 7 | * | 341 | **199 028 524** | **199 028 554** |
| 50 | 40 | 10 / 7 | * | 460 | **199 028 525** | **199 028 555** |
| 63 | 50 | 10 / 7 | * | 685 | **199 028 526** | **199 028 556** |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# Notes

# Notes

# Notes

# Notes

# SYGEF® standard metric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| | Ball valves electric | 452 |
| | Ball valves pneumatic | 468 |
| | Diaphragm valves pneumatic | 490 |
| | Butterfly valves electric | 513 |
| | Butterfly valves pneumatic | 525 |
| | Solenoid valves | 534 |
| | Process control valves | 537 |

# SYGEF® standard metric

# Ball valves electric

## SYGEF® standard
## Ball valve type 132 100-230V
## With manual emergency override
## With fusion sockets metric

**Model:**

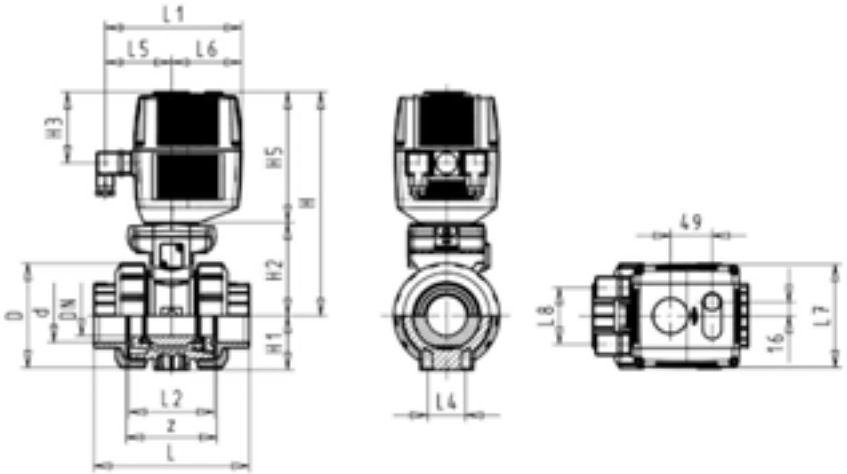
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

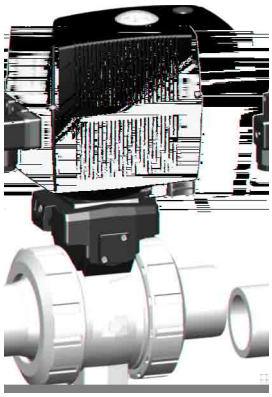
- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 132 012** | 2.100 |
| 20 | 15 | 10 | 185 | **199 132 013** | 2.100 |
| 25 | 20 | 10 | 350 | **199 132 014** | 2.200 |
| 32 | 25 | 10 | 700 | **199 132 015** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 132 016** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 132 017** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 132 018** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# SYGEF® standard metric



## SYGEF® standard
## Ball valve type 132 100-230V
## With manual emergency override
## With fusion spigots metric

**Model:**

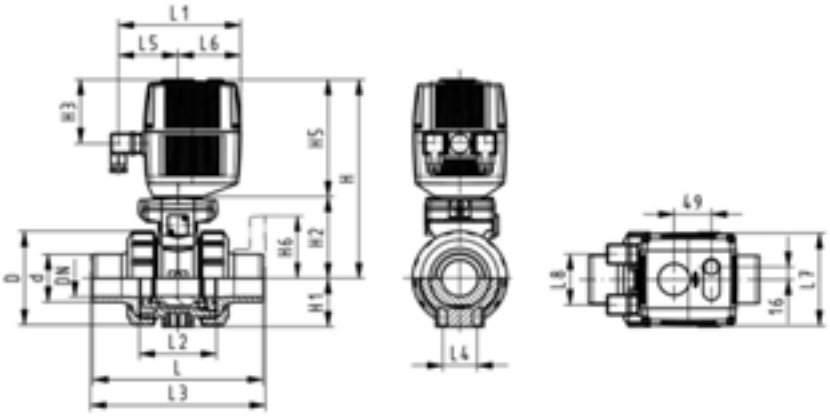
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 132 032** | 2.100 |
| 20 | 15 | 10 | 185 | **199 132 033** | 2.100 |
| 25 | 20 | 10 | 350 | **199 132 034** | 2.200 |
| 32 | 25 | 10 | 700 | **199 132 035** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 132 036** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 132 037** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 132 038** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 132 100-230V
## With manual emergency override
## With fixed flanges PVDF serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

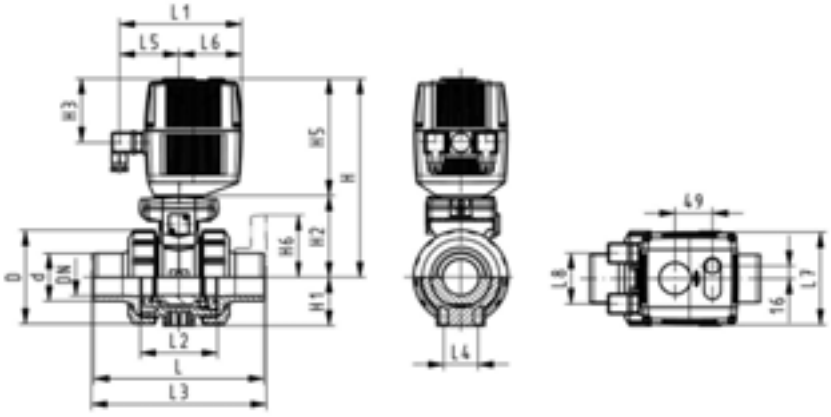
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 132 083** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 132 084** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 132 085** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 132 086** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 132 087** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 132 088** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 124 | 180 | 56 | 130 | 25 | 98 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 194 | 180 | 89 | 200 | 45 | 98 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 83 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 132 24V
## With manual emergency override
## With fusion sockets metric

**Model:**

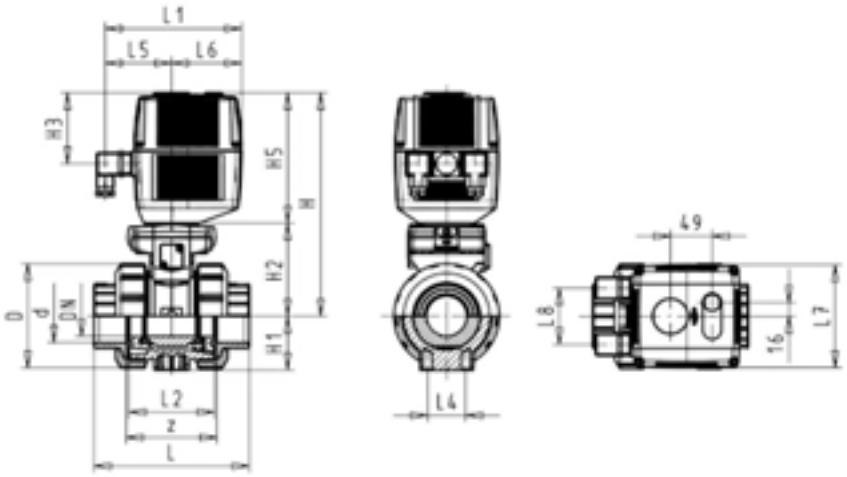
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

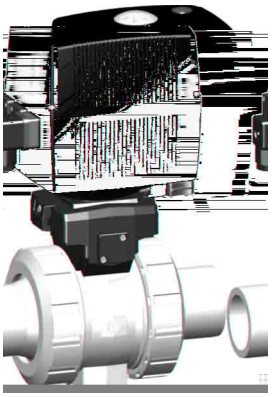
- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 132 052** | 2.100 |
| 20 | 15 | 10 | 185 | **199 132 053** | 2.100 |
| 25 | 20 | 10 | 350 | **199 132 054** | 2.200 |
| 32 | 25 | 10 | 700 | **199 132 055** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 132 056** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 132 057** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 132 058** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 92 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 95 | 180 | 56 | 25 | 97 | 83 | 122 | 66 | 64 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 110 | 180 | 65 | 25 | 97 | 83 | 122 | 66 | 72 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 123 | 180 | 71 | 25 | 97 | 83 | 122 | 66 | 79 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 146 | 180 | 85 | 45 | 97 | 83 | 122 | 66 | 94 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 157 | 180 | 89 | 45 | 97 | 83 | 122 | 66 | 95 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 183 | 180 | 101 | 45 | 97 | 83 | 122 | 66 | 107 |



# SYGEF® standard metric



## SYGEF® standard
## Ball valve type 132 24V
## With manual emergency override
## With fusion spigots metric

**Model:**

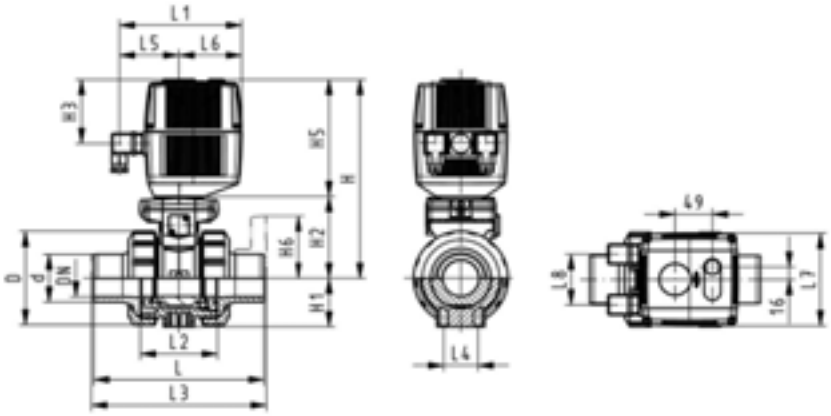
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 132 072** | 2.100 |
| 20 | 15 | 10 | 185 | **199 132 073** | 2.100 |
| 25 | 20 | 10 | 350 | **199 132 074** | 2.200 |
| 32 | 25 | 10 | 700 | **199 132 075** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 132 076** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 132 077** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 132 078** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 231 | 27 | 64 | 94 | 167 | 114 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 124 | 180 | 56 | 130 | 25 | 97 | 83 | 122 | 66 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 | 66 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 | 66 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 | 66 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 194 | 180 | 89 | 200 | 45 | 97 | 83 | 122 | 66 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 | 66 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 132 24V
## With manual emergency override
## With fixed flanges PVDF serrated metric

**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

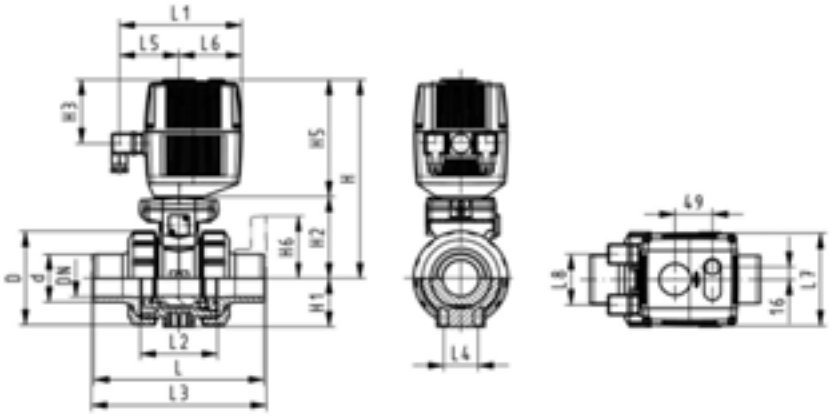
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 132 093** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 132 094** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 132 095** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 132 096** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 132 097** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 132 098** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 231 | 27 | 64 | 94 | 167 | 48 | 124 | 180 | 56 | 130 | 25 | 98 | 83 | 122 |
| 25 | 58 | 240 | 30 | 73 | 94 | 167 | 53 | 144 | 180 | 65 | 150 | 25 | 97 | 83 | 122 |
| 32 | 68 | 240 | 36 | 73 | 94 | 167 | 58 | 154 | 180 | 71 | 160 | 25 | 97 | 83 | 122 |
| 40 | 84 | 251 | 44 | 84 | 94 | 167 | 70 | 174 | 180 | 85 | 180 | 45 | 97 | 83 | 122 |
| 50 | 97 | 251 | 51 | 84 | 94 | 167 | 75 | 194 | 180 | 89 | 200 | 45 | 98 | 83 | 122 |
| 63 | 124 | 273 | 64 | 106 | 94 | 167 | 83 | 224 | 180 | 101 | 230 | 45 | 97 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 66 |
| 25 | 66 |
| 32 | 66 |
| 40 | 66 |
| 50 | 66 |
| 63 | 66 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 107 100-230V
## With manual emergency override
## With fusion sockets metric

**Model:**

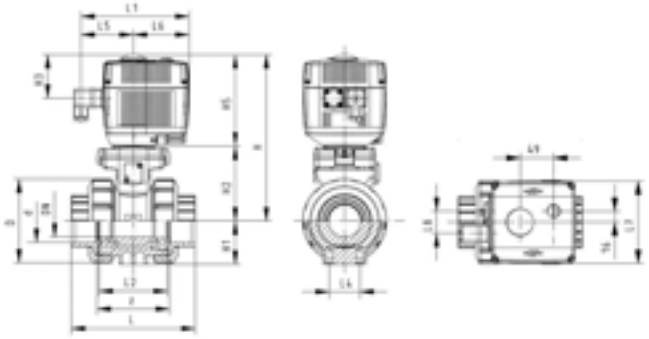
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 802** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 803** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 804** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 805** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 806** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 807** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 808** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 107 100-230V
## With manual emergency override
## With fusion spigots metric

**Model:**

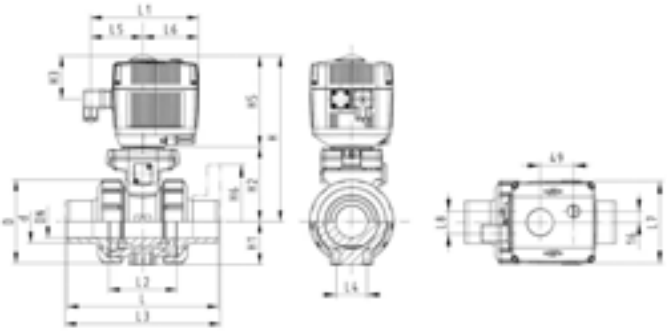
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

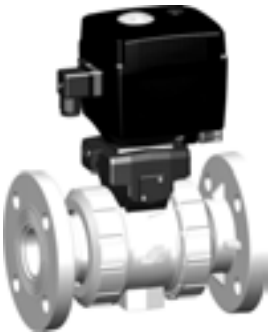
- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 812** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 813** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 814** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 815** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 816** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 817** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 818** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 0 | 25 | 79 | 83 | 122 | 67 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 79 | 83 | 122 | 67 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 79 | 83 | 122 | 67 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 79 | 83 | 122 | 67 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 79 | 83 | 122 | 67 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 79 | 83 | 122 | 67 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 79 | 83 | 122 | 67 |



# SYGEF® standard metric



## SYGEF® standard
## Ball valve type 107 100-230V
## With manual emergency override
## With fixed flanges PVDF serrated metric

**Model:**

- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

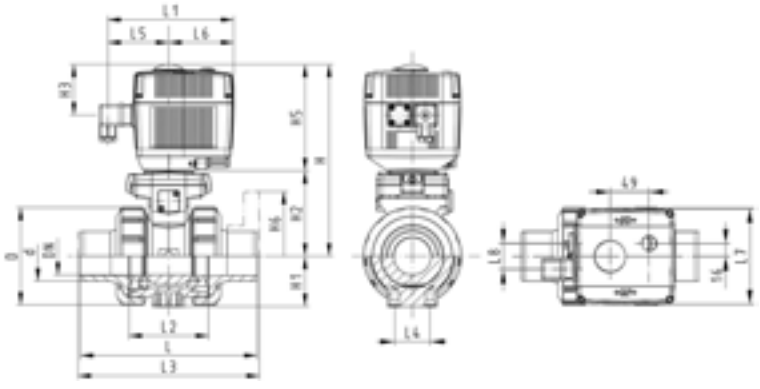
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 843** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 107 844** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 107 845** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 846** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 847** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 107 848** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 201 | 27 | 64 | 65 | 138 | 48 | 124 | 160 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 210 | 30 | 73 | 65 | 138 | 53 | 144 | 160 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 210 | 36 | 73 | 65 | 138 | 58 | 154 | 160 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 221 | 44 | 84 | 65 | 138 | 70 | 174 | 160 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 221 | 51 | 84 | 65 | 138 | 75 | 194 | 160 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 244 | 64 | 106 | 65 | 138 | 83 | 224 | 160 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 107 24V
## With manual emergency override
## With fusion sockets metric

**Model:**

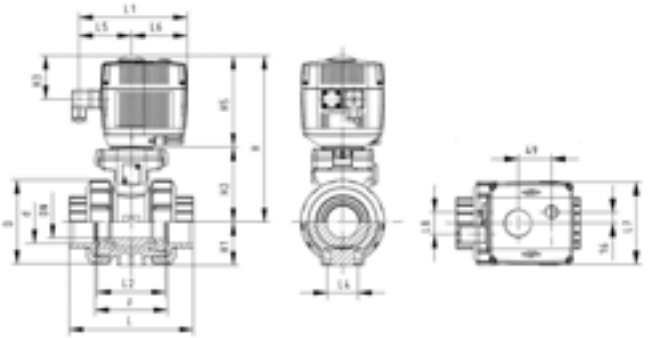
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 822** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 823** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 824** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 825** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 826** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 827** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 828** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 92 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 64 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 95 | 161 | 56 | 25 | 79 | 83 | 122 | 67 | 64 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 110 | 161 | 65 | 25 | 79 | 83 | 122 | 67 | 72 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 123 | 161 | 71 | 25 | 79 | 83 | 122 | 67 | 79 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 146 | 161 | 85 | 45 | 79 | 83 | 122 | 67 | 94 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 157 | 161 | 89 | 45 | 79 | 83 | 122 | 67 | 95 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 183 | 161 | 101 | 45 | 79 | 83 | 122 | 67 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 107 24V
## With manual emergency override
## With fusion spigots metric

**Model:**

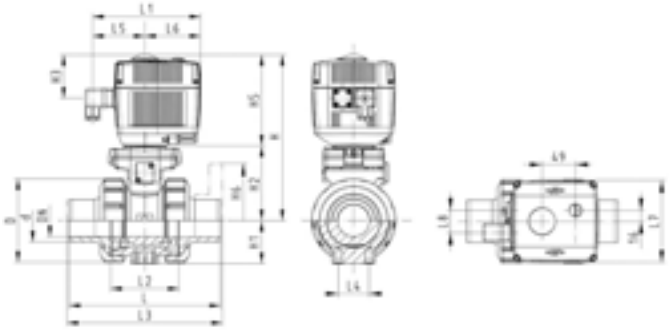
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

**Option:**

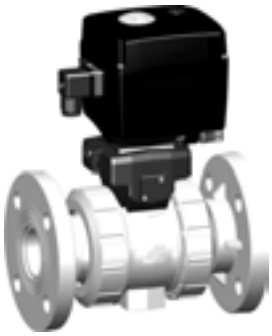
- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 107 832** | 2.100 |
| 20 | 15 | 10 | 185 | **199 107 833** | 2.100 |
| 25 | 20 | 10 | 350 | **199 107 834** | 2.200 |
| 32 | 25 | 10 | 700 | **199 107 835** | 2.300 |
| 40 | 32 | 10 | 1000 | **199 107 836** | 2.600 |
| 50 | 40 | 10 | 1600 | **199 107 837** | 3.000 |
| 63 | 50 | 10 | 3100 | **199 107 838** | 3.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | L8 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 200 | 27 | 64 | 64 | 137 | 114 | 161 | 56 | 0 | 25 | 79 | 83 | 122 | 67 |
| 20 | 50 | 200 | 27 | 64 | 64 | 137 | 124 | 161 | 56 | 130 | 25 | 79 | 83 | 122 | 67 |
| 25 | 58 | 209 | 30 | 73 | 64 | 137 | 144 | 161 | 65 | 150 | 25 | 79 | 83 | 122 | 67 |
| 32 | 68 | 209 | 36 | 73 | 64 | 137 | 154 | 161 | 71 | 160 | 25 | 79 | 83 | 122 | 67 |
| 40 | 84 | 220 | 44 | 84 | 64 | 137 | 174 | 161 | 85 | 180 | 45 | 79 | 83 | 122 | 67 |
| 50 | 97 | 220 | 51 | 84 | 64 | 137 | 194 | 161 | 89 | 200 | 45 | 79 | 83 | 122 | 67 |
| 63 | 124 | 243 | 64 | 106 | 64 | 137 | 224 | 161 | 101 | 230 | 45 | 79 | 83 | 122 | 67 |



# SYGEF® standard metric



## SYGEF® standard
## Ball valve type 107 24V
## With manual emergency override
## With fixed flanges PVDF serrated metric

**Model:**

- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

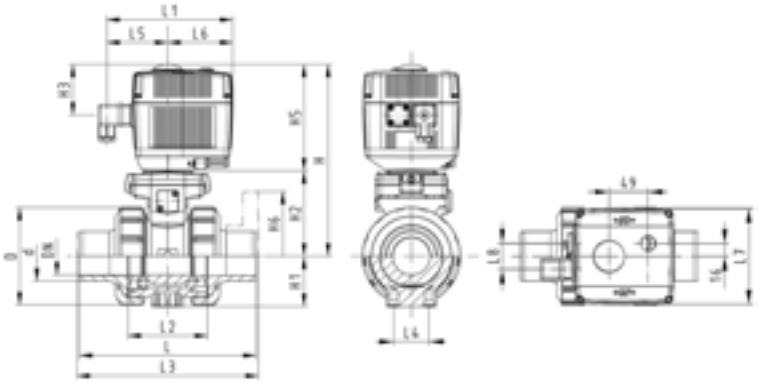
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 107 853** | 2.300 |
| 25 | 20 | ¾ | 10 | 350 | **199 107 854** | 2.500 |
| 32 | 25 | 1 | 10 | 700 | **199 107 855** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 107 856** | 3.200 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 107 857** | 3.700 |
| 63 | 50 | 2 | 10 | 3100 | **199 107 858** | 4.800 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 201 | 27 | 64 | 65 | 138 | 48 | 124 | 160 | 56 | 130 | 25 | 77 | 83 | 122 |
| 25 | 58 | 210 | 30 | 73 | 65 | 138 | 53 | 144 | 160 | 65 | 150 | 25 | 77 | 83 | 122 |
| 32 | 68 | 210 | 36 | 73 | 65 | 138 | 58 | 154 | 160 | 71 | 160 | 25 | 77 | 83 | 122 |
| 40 | 84 | 221 | 44 | 84 | 65 | 138 | 70 | 174 | 160 | 85 | 180 | 45 | 77 | 83 | 122 |
| 50 | 97 | 221 | 51 | 84 | 65 | 138 | 75 | 194 | 160 | 89 | 200 | 45 | 77 | 83 | 122 |
| 63 | 124 | 244 | 64 | 106 | 65 | 138 | 83 | 224 | 160 | 101 | 230 | 45 | 77 | 83 | 122 |

| d [mm] | L8 [mm] |
|---|---|
| 20 | 33 |
| 25 | 33 |
| 32 | 33 |
| 40 | 33 |
| 50 | 33 |
| 63 | 33 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 177
## Horizontal/L-port 100-230V
## With manual emergency override
## With butt fusion spigots IR metric

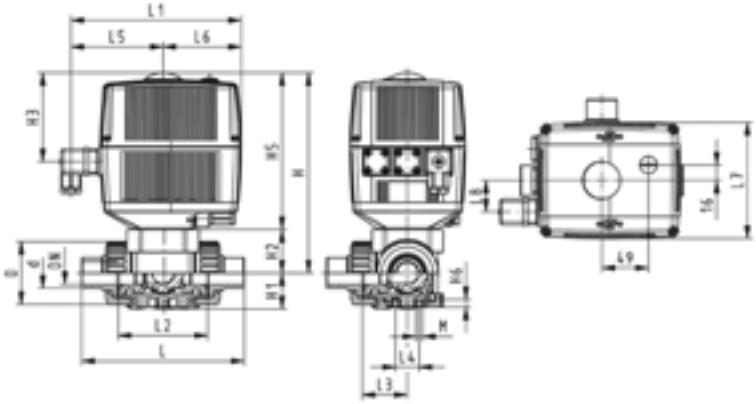
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 177 052** | 2.178 |
| 20 | 15 | 10 | 75 | **199 177 053** | 2.461 |
| 25 | 20 | 10 | 150 | **199 177 054** | 2.408 |
| 32 | 25 | 10 | 280 | **199 177 055** | 2.618 |
| 40 | 32 | 10 | 480 | **199 177 056** | 3.053 |
| 50 | 40 | 10 | 620 | **199 177 057** | 3.744 |
| 63 | 50 | 10 | 1230 | **199 177 058** | 5.468 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 119 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 177
## Horizontal/T-port 100-230V
## With manual emergency override
## With butt fusion spigots IR metric

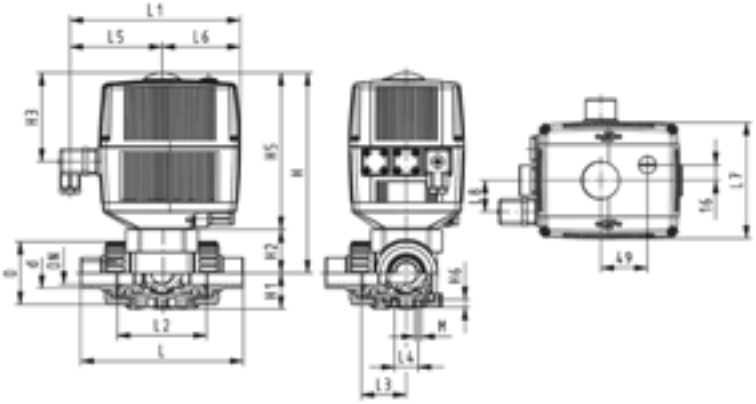
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 177 072** | 2.178 |
| 20 | 15 | 10 | 200 | **199 177 073** | 2.178 |
| 25 | 20 | 10 | 470 | **199 177 074** | 2.408 |
| 32 | 25 | 10 | 793 | **199 177 075** | 2.618 |
| 40 | 32 | 10 | 1290 | **199 177 076** | 3.053 |
| 50 | 40 | 10 | 1910 | **199 177 077** | 3.105 |
| 63 | 50 | 10 | 3100 | **199 177 078** | 5.468 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 119 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 177
## Horizontal/L-port 24V
## With manual emergency override
## With butt fusion spigots IR metric

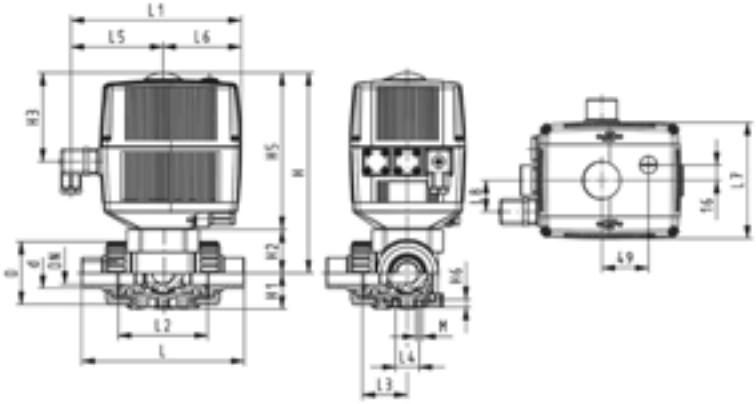
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 177 172** | 2.178 |
| 20 | 15 | 10 | 75 | **199 177 173** | 2.178 |
| 25 | 20 | 10 | 150 | **199 177 174** | 2.408 |
| 32 | 25 | 10 | 280 | **199 177 175** | 2.297 |
| 40 | 32 | 10 | 480 | **199 177 176** | 3.053 |
| 50 | 40 | 10 | 620 | **199 177 177** | 3.744 |
| 63 | 50 | 10 | 1230 | **199 177 178** | 5.468 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 119 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 177
## Horizontal/T-port 24V
## With manual emergency override
## With butt fusion spigots IR metric

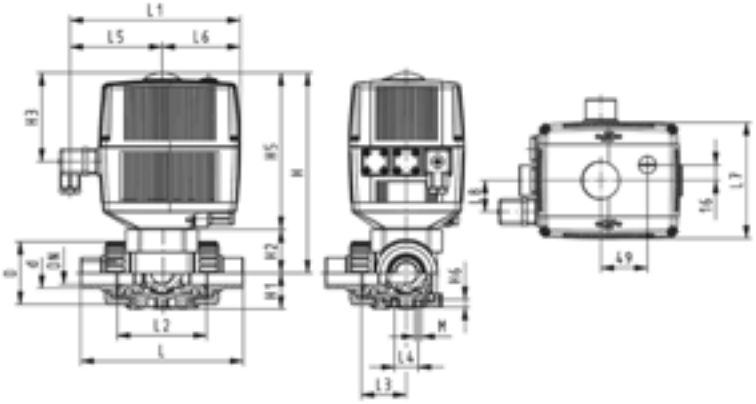
**Model:**

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if existing)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 177 192** | 2.178 |
| 20 | 15 | 10 | 200 | **199 177 193** | 2.178 |
| 25 | 20 | 10 | 470 | **199 177 194** | 2.408 |
| 32 | 25 | 10 | 793 | **199 177 195** | 2.618 |
| 40 | 32 | 10 | 1290 | **199 177 196** | 3.053 |
| 50 | 40 | 10 | 1910 | **199 177 197** | 3.744 |
| 63 | 50 | 10 | 3100 | **199 177 198** | 5.468 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 119 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 20 | 46 | 197 | 29 | 31 | 93 | 166 | 8 | 133 | 182 | 70 | 36 | 25 | 99 | 83 | 122 |
| 25 | 56 | 205 | 33 | 39 | 93 | 166 | 8 | 155 | 182 | 86 | 43 | 25 | 99 | 83 | 122 |
| 32 | 67 | 210 | 38 | 44 | 93 | 166 | 8 | 170 | 182 | 96 | 48 | 25 | 99 | 83 | 122 |
| 40 | 82 | 216 | 44 | 50 | 93 | 166 | 9 | 201 | 182 | 114 | 58 | 45 | 99 | 83 | 122 |
| 50 | 98 | 229 | 50 | 63 | 93 | 166 | 9 | 236 | 182 | 137 | 69 | 45 | 99 | 83 | 122 |
| 63 | 121 | 242 | 61 | 76 | 93 | 166 | 9 | 286 | 182 | 179 | 90 | 45 | 99 | 83 | 122 |

| d [mm] | L8 [mm] | M |
|---|---|---|
| 16 | 33 | 6 |
| 20 | 33 | 6 |
| 25 | 33 | 6 |
| 32 | 33 | 6 |
| 40 | 33 | 8 |
| 50 | 33 | 8 |
| 63 | 33 | 8 |



# SYGEF® standard metric

# Ball valves pneumatic

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## With manual override
## With fusion Sockets metric

**Model:**

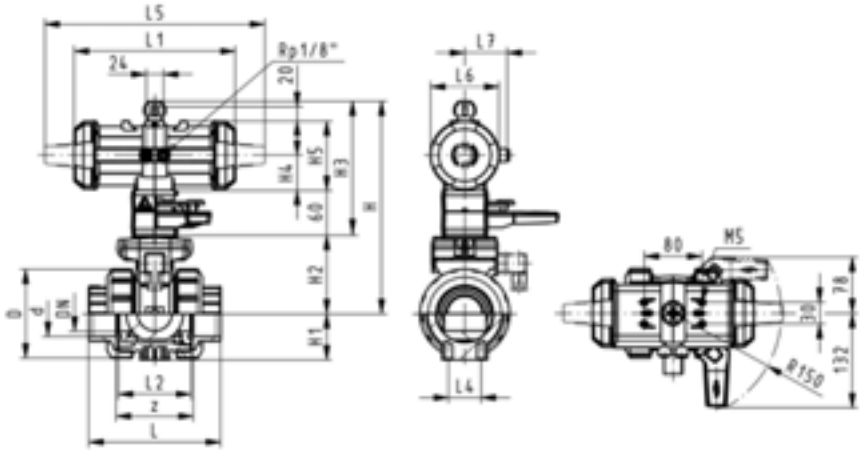
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 012** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 013** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 014** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 015** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 016** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 017** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 018** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## With manual override
## With fusion spigots metric

**Model:**

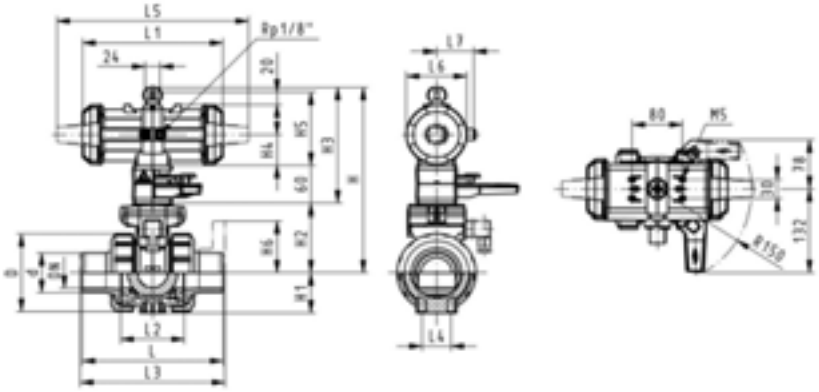
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 032** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 033** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 034** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 035** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 036** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 037** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 038** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## With manual override
## With fixed flanges PVDF serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

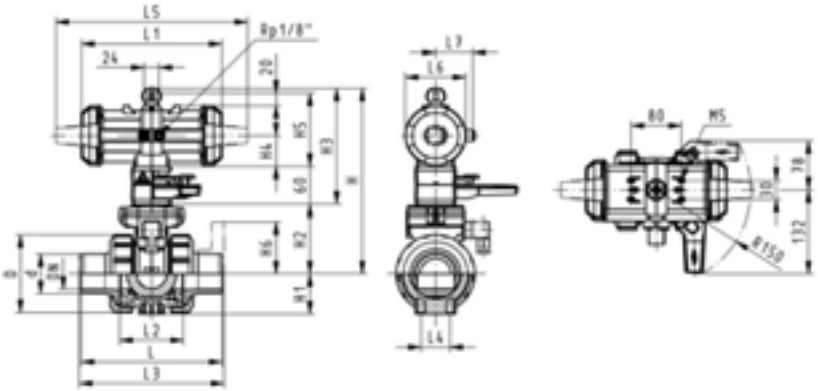
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 003** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 004** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 232 005** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 006** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 007** | 3.900 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 008** | 5.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## With manual override
## With fusion sockets metric

**Model:**

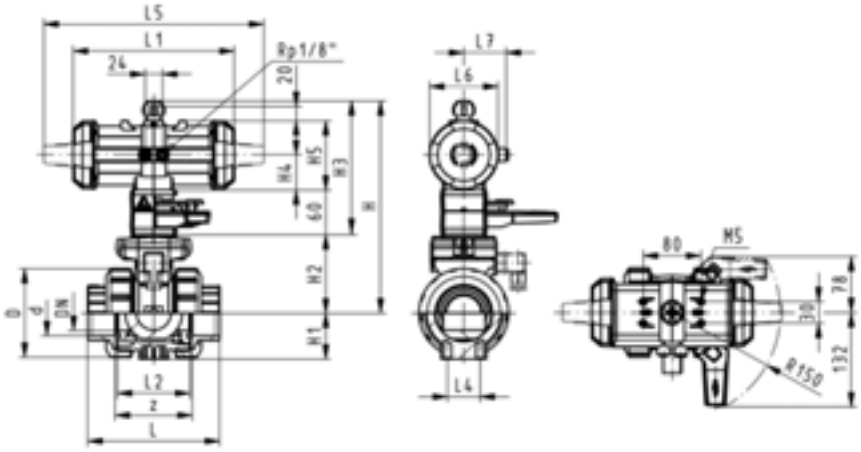
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 052** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 053** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 054** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 055** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 056** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 057** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 058** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## With manual override
## With fusion spigots metric

**Model:**

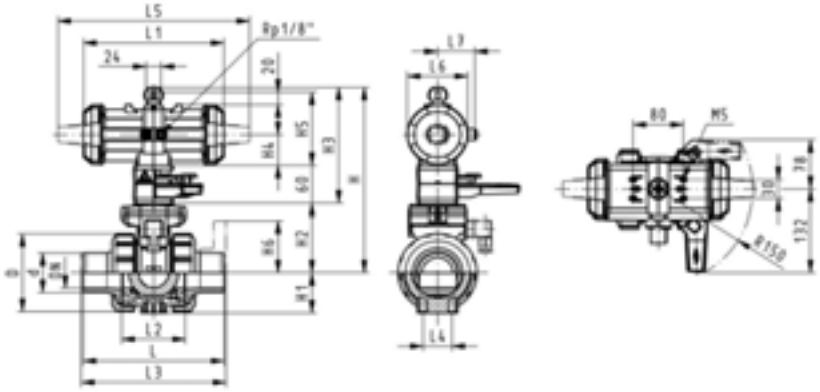
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 072** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 073** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 074** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 075** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 076** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 077** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 078** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## With manual override
## With fixed flanges PVDF serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

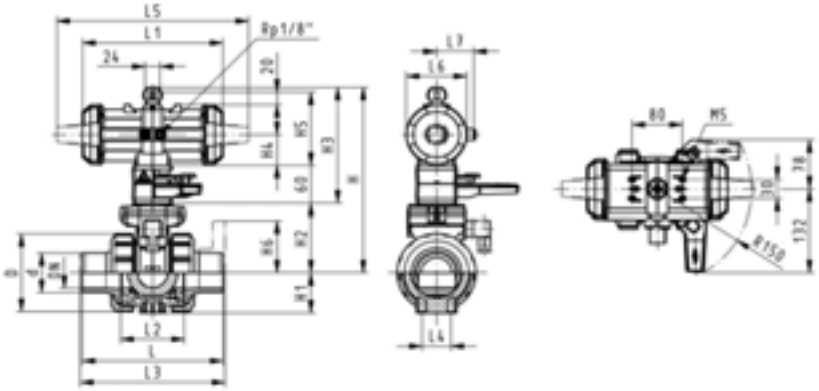
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 023** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 024** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 232 025** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 026** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 027** | 3.900 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 028** | 5.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## With manual override
## With fusion sockets metric

**Model:**

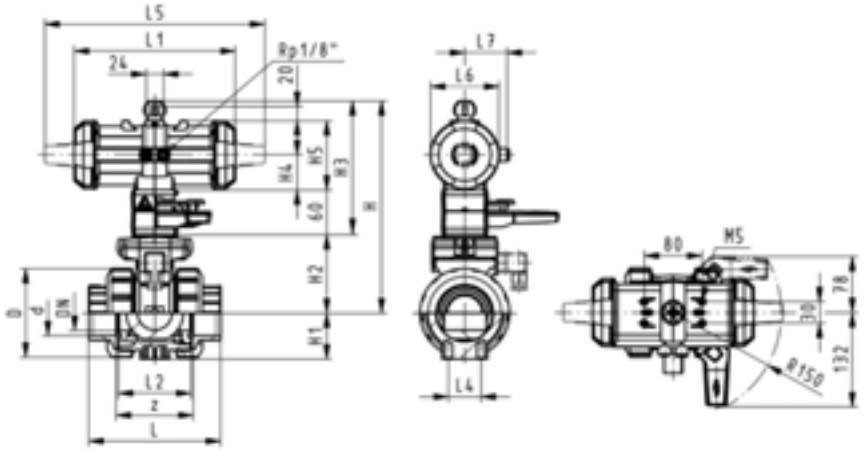
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 092** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 093** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 094** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 095** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 096** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 097** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 098** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## With manual override
## With fusion spigots metric

**Model:**

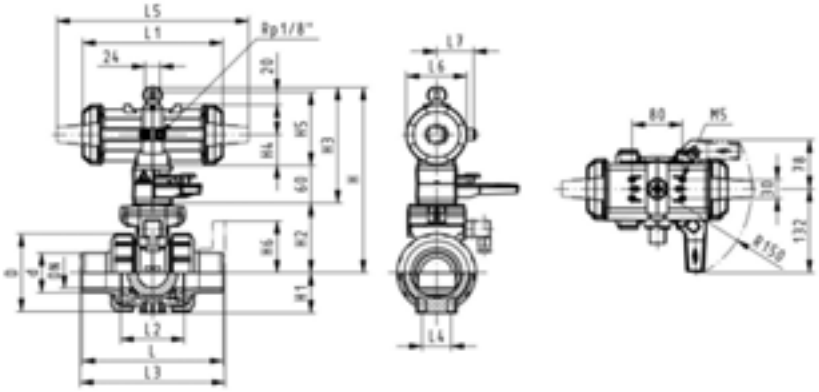
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 112** | 1.500 |
| 20 | 15 | 10 | 185 | **199 232 113** | 1.500 |
| 25 | 20 | 10 | 350 | **199 232 114** | 1.600 |
| 32 | 25 | 10 | 700 | **199 232 115** | 1.700 |
| 40 | 32 | 10 | 1000 | **199 232 116** | 2.800 |
| 50 | 40 | 10 | 1600 | **199 232 117** | 3.100 |
| 63 | 50 | 10 | 3100 | **199 232 118** | 4.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 92 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 95 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 110 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 123 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 146 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 157 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 183 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## With manual override
## With fixed flanges PVDF serrated metric

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

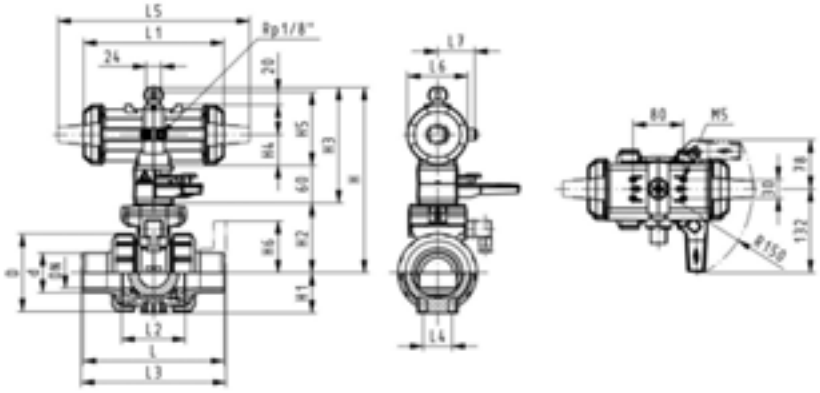
**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 043** | 1.700 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 044** | 1.900 |
| 32 | 25 | 1 | 10 | 700 | **199 232 045** | 2.100 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 046** | 3.400 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 047** | 3.900 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 048** | 5.000 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 230 | 27 | 62 | 168 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 |
| 25 | 58 | 239 | 30 | 71 | 168 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 |
| 32 | 68 | 239 | 36 | 71 | 168 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 |
| 40 | 84 | 271 | 44 | 84 | 187 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 |
| 50 | 97 | 271 | 51 | 84 | 187 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 |
| 63 | 124 | 293 | 64 | 106 | 187 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 |

| d [mm] | L7 [mm] |
|---|---|
| 20 | 48 |
| 25 | 48 |
| 32 | 48 |
| 40 | 59 |
| 50 | 59 |
| 63 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## Without manual override
## With fusion sockets metric

**Model:**

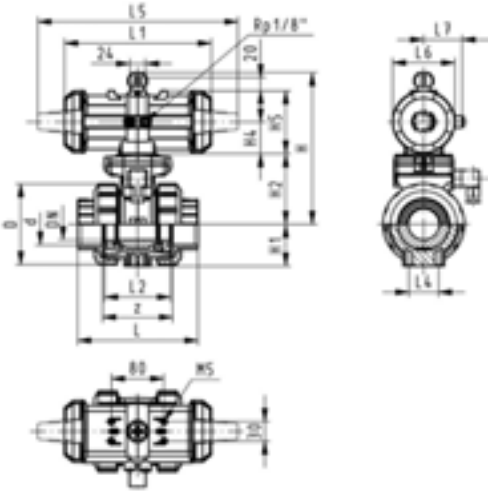
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 132** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 133** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 134** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 135** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 136** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 137** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 138** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## Without manual override
## With fusion spigots metric

**Model:**

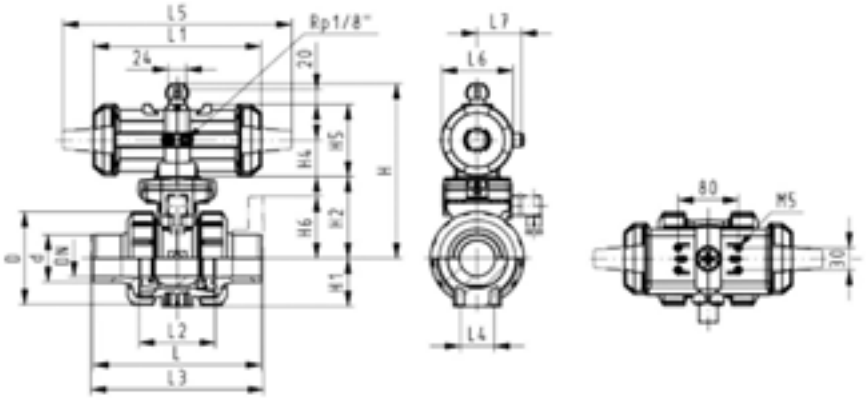
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 152** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 153** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 154** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 155** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 156** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 157** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 158** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FC (Fail safe to close)
## Without manual override
## With fixed flanges PVDF serrated metric

**Model:**

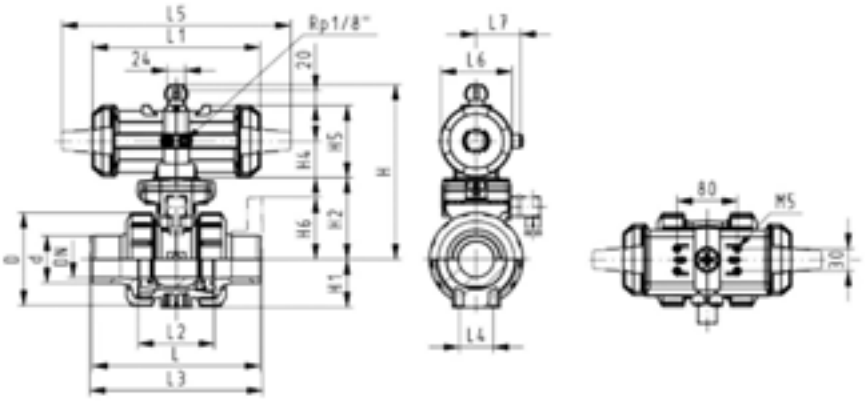
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 063** | 1.400 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 064** | 1.600 |
| 32 | 25 | 1 | 10 | 700 | **199 232 065** | 1.800 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 066** | 3.100 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 067** | 3.600 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 068** | 4.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## Without manual override
## With fusion sockets metric

**Model:**

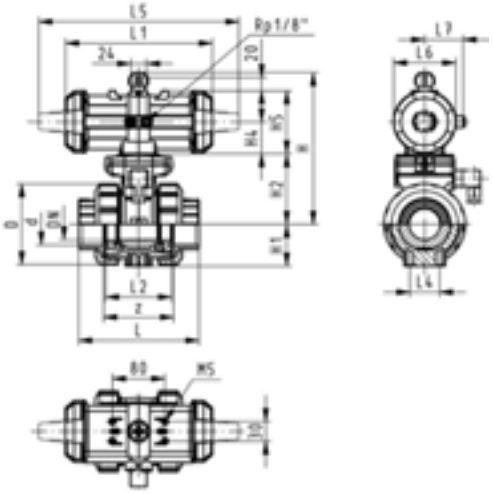
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 172** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 173** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 174** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 175** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 176** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 177** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 178** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## Without manual override
## With fusion spigots metric

**Model:**

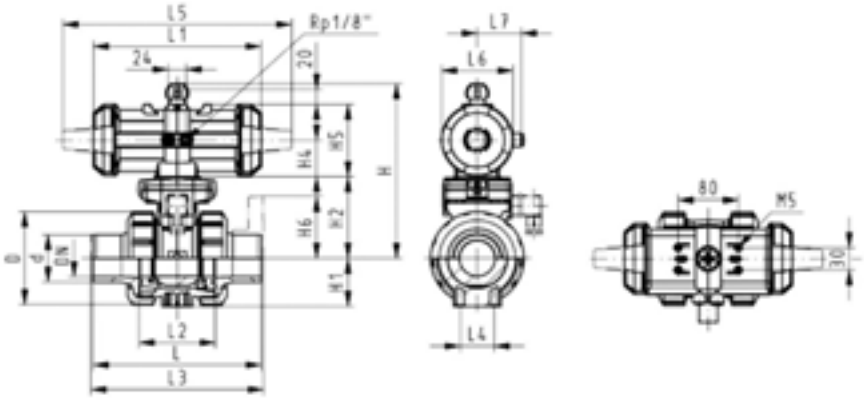
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 192** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 193** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 194** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 195** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 196** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 197** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 198** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function FO (Fail safe to open)
## Without manual override
## With fixed flanges PVDF serrated metric

**Model:**

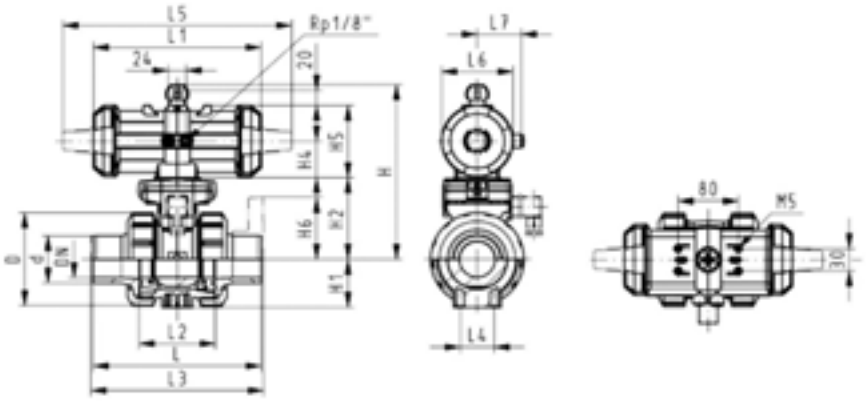
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 083** | 1.400 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 084** | 1.600 |
| 32 | 25 | 1 | 10 | 700 | **199 232 085** | 1.800 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 086** | 3.100 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 087** | 3.600 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 088** | 4.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## Without manual override
## With fusion sockets metric

**Model:**

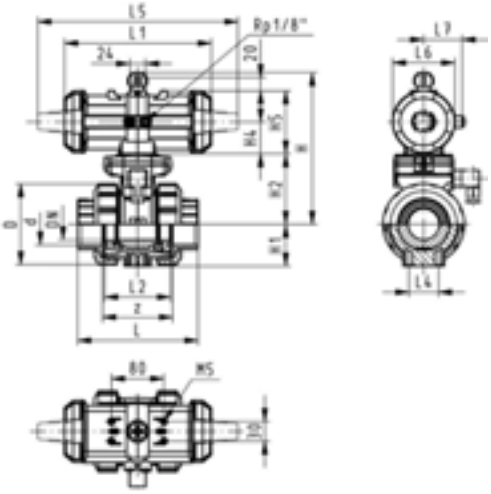
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 212** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 213** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 214** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 215** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 216** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 217** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 218** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] | z [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 92 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 95 | 194 | 56 | 25 | 261 | 76 | 48 | 64 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 110 | 194 | 65 | 25 | 261 | 76 | 48 | 72 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 123 | 194 | 71 | 25 | 261 | 76 | 48 | 79 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 146 | 224 | 85 | 45 | 305 | 95 | 59 | 94 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 157 | 224 | 89 | 45 | 305 | 95 | 59 | 95 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 183 | 224 | 101 | 45 | 305 | 95 | 59 | 107 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## Without manual override
## With fusion spigots metric

**Model:**

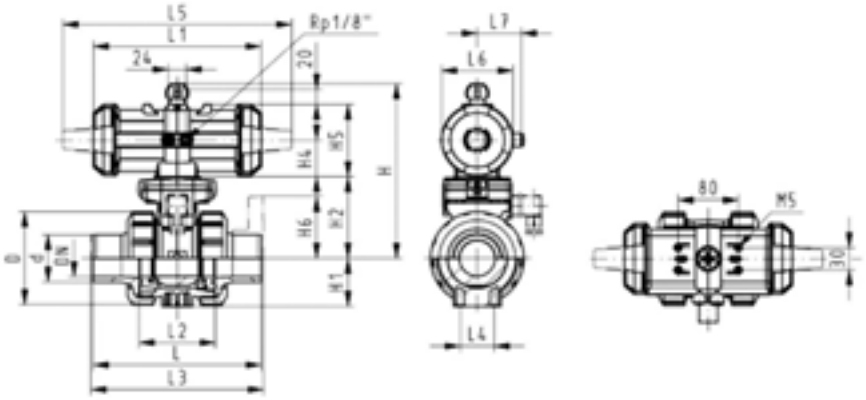
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 70 | **199 232 232** | 1.200 |
| 20 | 15 | 10 | 185 | **199 232 233** | 1.200 |
| 25 | 20 | 10 | 350 | **199 232 234** | 1.300 |
| 32 | 25 | 10 | 700 | **199 232 235** | 1.400 |
| 40 | 32 | 10 | 1000 | **199 232 236** | 2.500 |
| 50 | 40 | 10 | 1600 | **199 232 237** | 2.800 |
| 63 | 50 | 10 | 3100 | **199 232 238** | 3.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50 | 167 | 27 | 62 | 40 | 97 | 114 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## Ball valve type 232
## Function DA (Double acting)
## Without manual override
## With fixed flanges PVDF serrated metric

**Model:**

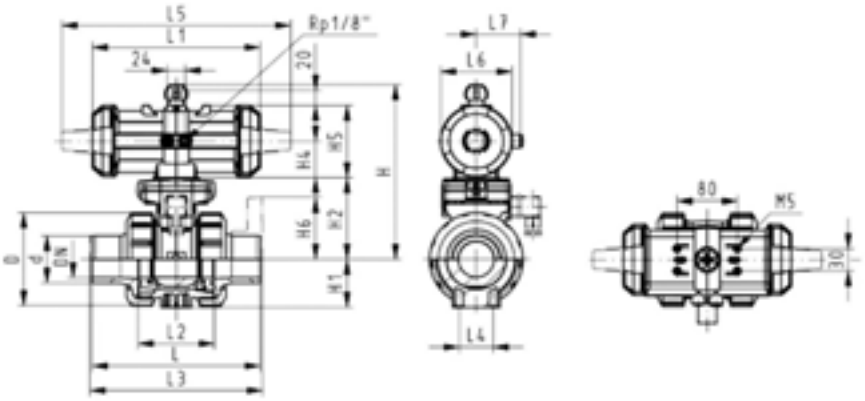
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 185 | **199 232 103** | 1.400 |
| 25 | 20 | ¾ | 10 | 350 | **199 232 104** | 1.600 |
| 32 | 25 | 1 | 10 | 700 | **199 232 105** | 1.800 |
| 40 | 32 | 1 ¼ | 10 | 1000 | **199 232 106** | 3.100 |
| 50 | 40 | 1 ½ | 10 | 1600 | **199 232 107** | 3.600 |
| 63 | 50 | 2 | 10 | 3100 | **199 232 108** | 4.700 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] | L7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 50 | 167 | 27 | 62 | 40 | 97 | 48 | 124 | 194 | 56 | 130 | 25 | 261 | 76 | 48 |
| 25 | 58 | 176 | 30 | 71 | 40 | 97 | 53 | 144 | 194 | 65 | 150 | 25 | 261 | 76 | 48 |
| 32 | 68 | 176 | 36 | 71 | 40 | 97 | 58 | 154 | 194 | 71 | 160 | 25 | 261 | 76 | 48 |
| 40 | 84 | 210 | 44 | 84 | 51 | 115 | 70 | 174 | 224 | 85 | 180 | 45 | 305 | 95 | 59 |
| 50 | 97 | 210 | 51 | 84 | 51 | 115 | 75 | 194 | 224 | 89 | 200 | 45 | 305 | 95 | 59 |
| 63 | 124 | 232 | 64 | 106 | 51 | 115 | 83 | 224 | 224 | 101 | 230 | 45 | 305 | 95 | 59 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 277
## Horizontal/L-port
## Without manual override
## With butt fusion spigots IR metric

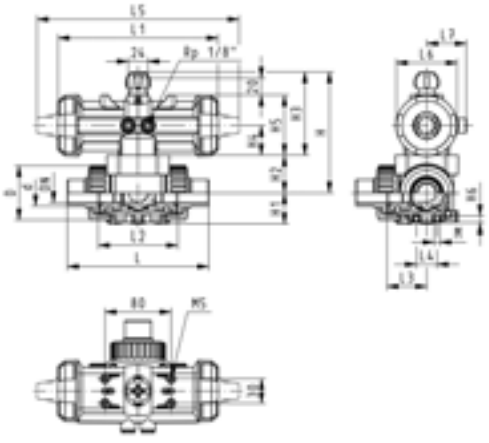
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-3 s

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 277 052** | 1.171 |
| 20 | 15 | 10 | 75 | **199 277 053** | 1.171 |
| 25 | 20 | 10 | 150 | **199 277 054** | 1.167 |
| 32 | 25 | 10 | 280 | **199 277 055** | 1.677 |
| 40 | 32 | 10 | 480 | **199 277 056** | 2.722 |
| 50 | 40 | 10 | 620 | **199 277 057** | 2.555 |
| 63 | 50 | 10 | 1230 | **199 277 058** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 119 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# SYGEF® standard metric

## 3-Way ball valve type 277
## Horizontal/L-port DA (Double acting)
## Without manual override
## With butt fusion spigots IR metric

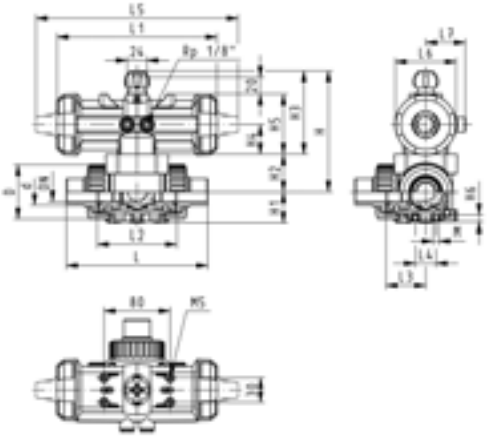
**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-3 s

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 50 | **199 277 172** | 0.981 |
| 20 | 15 | 10 | 75 | **199 277 173** | 0.981 |
| 25 | 20 | 10 | 150 | **199 277 174** | 1.211 |
| 32 | 25 | 10 | 280 | **199 277 175** | 1.100 |
| 40 | 32 | 10 | 480 | **199 277 176** | 2.131 |
| 50 | 40 | 10 | 620 | **199 277 177** | 2.989 |
| 63 | 50 | 10 | 1230 | **199 277 178** | 4.713 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 119 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# SYGEF® standard metric

## SYGEF® standard
## 3-Way ball valve type 277
## Horizontal/T-port
## Without manual override
## With butt fusion spigots IR metric

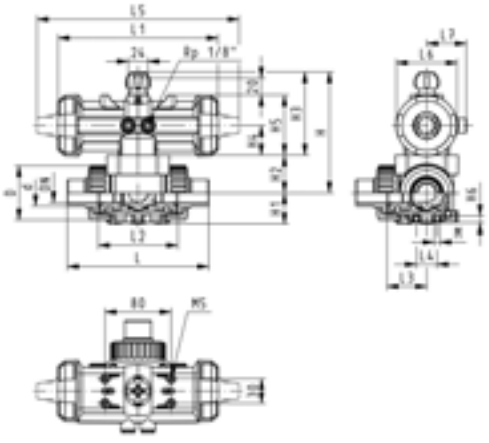
**Model:**

- Built on with pneumatic actuator PA11/21
- Actuator fails safe to the closed position FC
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-3 s

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 277 072** | 1.171 |
| 20 | 15 | 10 | 200 | **199 277 073** | 1.044 |
| 25 | 20 | 10 | 470 | **199 277 074** | 1.401 |
| 32 | 25 | 10 | 793 | **199 277 075** | 1.611 |
| 40 | 32 | 10 | 1290 | **199 277 076** | 2.722 |
| 50 | 40 | 10 | 1910 | **199 277 077** | 3.413 |
| 63 | 50 | 10 | 3100 | **199 277 078** | 3.487 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 119 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# SYGEF® standard metric

## 3-Way ball valve type 277
## Horizontal/T-port DA (Double acting)
## Without manual override
## With butt fusion spigots IR metric

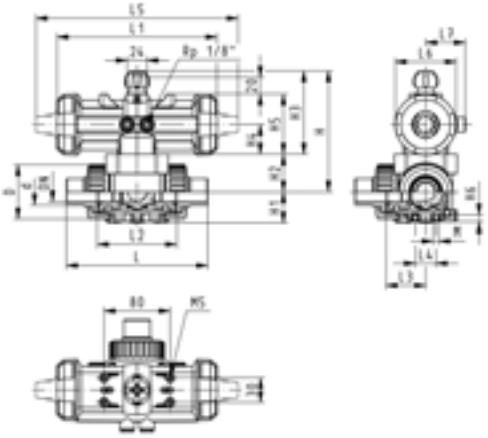
**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-3 s

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|
| 16 | 10 | 10 | 140 | **199 277 192** | 0.981 |
| 20 | 15 | 10 | 200 | **199 277 193** | 0.981 |
| 25 | 20 | 10 | 470 | **199 277 194** | 1.211 |
| 32 | 25 | 10 | 793 | **199 277 195** | 1.421 |
| 40 | 32 | 10 | 1290 | **199 277 196** | 2.298 |
| 50 | 40 | 10 | 1910 | **199 277 197** | 2.989 |
| 63 | 50 | 10 | 3100 | **199 277 198** | 3.297 |

| d [mm] | D [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | L6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 119 | 194 | 70 | 36 | 25 | 261 | 73 |
| 20 | 46 | 136 | 29 | 31 | 105 | 40 | 77 | 8 | 133 | 194 | 70 | 36 | 25 | 261 | 73 |
| 25 | 56 | 144 | 33 | 39 | 105 | 40 | 77 | 8 | 155 | 194 | 86 | 43 | 25 | 261 | 73 |
| 32 | 67 | 149 | 38 | 44 | 105 | 40 | 77 | 8 | 170 | 194 | 96 | 48 | 25 | 261 | 73 |
| 40 | 82 | 177 | 44 | 50 | 127 | 51 | 99 | 9 | 201 | 224 | 114 | 58 | 45 | 305 | 94 |
| 50 | 98 | 190 | 50 | 63 | 127 | 51 | 99 | 9 | 236 | 224 | 137 | 69 | 45 | 305 | 94 |
| 63 | 121 | 203 | 61 | 76 | 127 | 51 | 99 | 9 | 286 | 224 | 179 | 90 | 45 | 305 | 94 |

| d [mm] | L7 [mm] | M |
|---|---|---|
| 16 | 48 | 6 |
| 20 | 48 | 6 |
| 25 | 48 | 6 |
| 32 | 48 | 6 |
| 40 | 59 | 8 |
| 50 | 59 | 8 |
| 63 | 59 | 8 |



# SYGEF® standard metric

# Diaphragm valves pneumatic

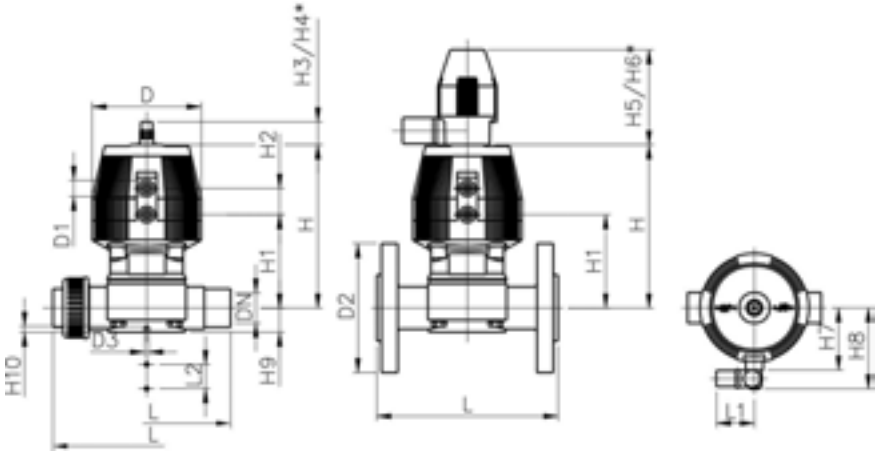
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 321** | 0.805 |
| 25 | 20 | 10 | 120 | **199 025 322** | 0.882 |
| 32 | 25 | 10 | 238 | **199 025 323** | 1.597 |
| 40 | 32 | 10 | 341 | **199 025 324** | 2.496 |
| 50 | 40 | 10 | 460 | **199 025 325** | 4.240 |
| 63 | 50 | 10 | 685 | **199 025 326** | 4.806 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# SYGEF® standard metric

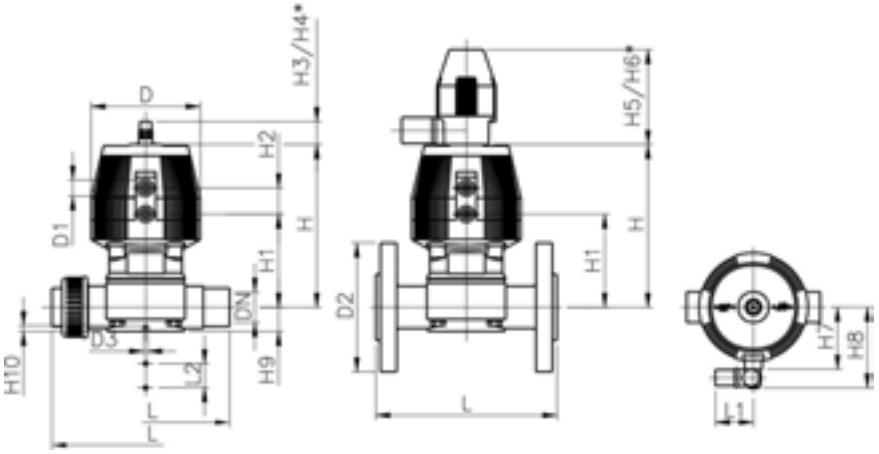
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 971** | 0.805 |
| 25 | 20 | 10 | 120 | **199 027 972** | 0.882 |
| 32 | 25 | 10 | 238 | **199 027 973** | 1.597 |
| 40 | 32 | 10 | 341 | **199 027 974** | 2.496 |
| 50 | 40 | 10 | 460 | **199 027 975** | 4.240 |
| 63 | 50 | 10 | 685 | **199 027 976** | 4.806 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# SYGEF® standard metric

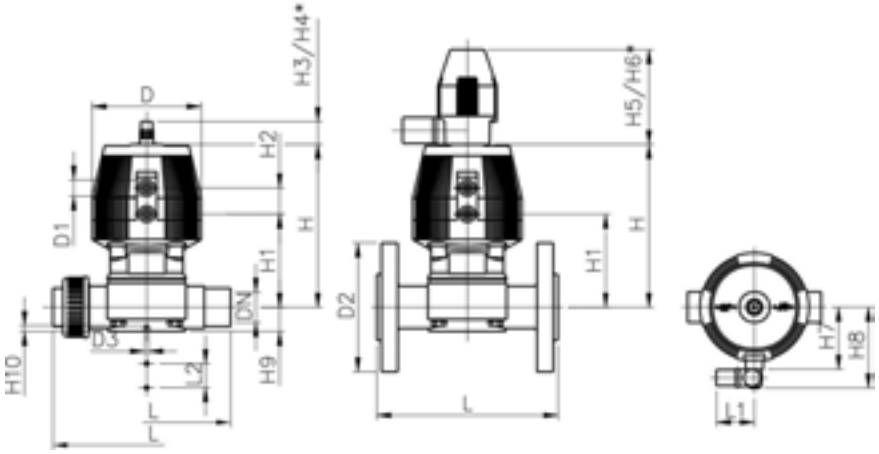
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 321** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 322** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 323** | 2.400 |
| 40 | 32 | 10 | 341 | **199 027 324** | 3.500 |
| 50 | 40 | 10 | 460 | **199 027 325** | 2.604 |
| 63 | 50 | 10 | 685 | **199 027 326** | 2.604 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 128 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 162 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 184 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 210 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 248 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# SYGEF® standard metric

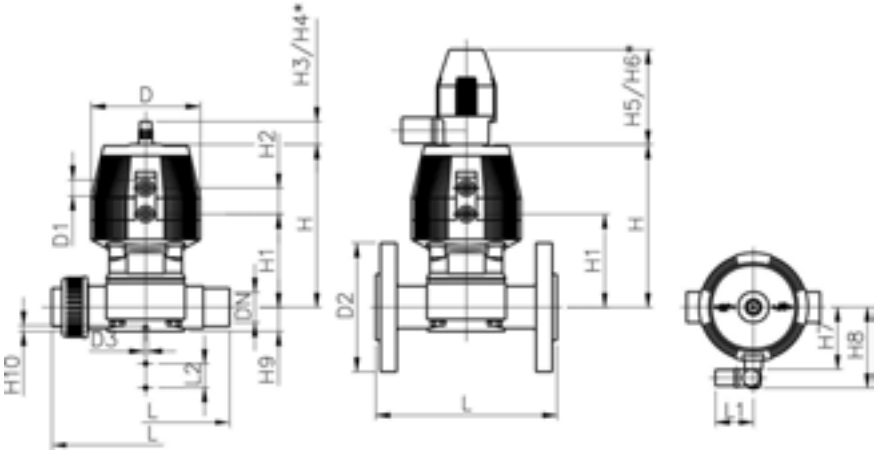
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## Unions with butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 491** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 492** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 493** | 1.505 |
| 40 | 32 | 10 | 341 | **199 027 494** | 2.604 |
| 50 | 40 | 10 | 460 | **199 027 495** | 2.604 |
| 63 | 50 | 10 | 685 | **199 027 496** | 2.604 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 196 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 220 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 234 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 258 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 284 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 320 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With backing flanges PP-V metric

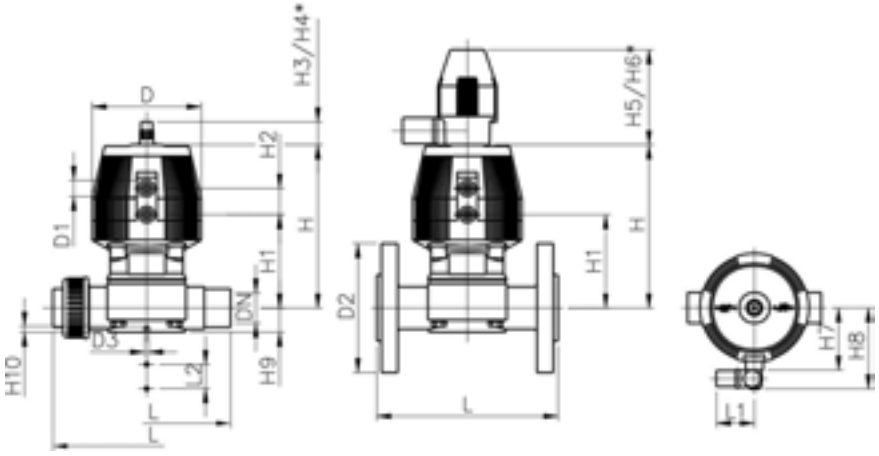
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 351** | 0.839 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 352** | 0.936 |
| 32 | 25 | 1 | 10 | 238 | **199 025 353** | 2.700 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 354** | 3.800 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 355** | 4.665 |
| 63 | 50 | 2 | 10 | 685 | **199 025 356** | 5.353 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 95 | 130 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 6 | 105 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 120 | ⅛ | 6 | 115 | 160 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 |
| 40 | 150 | ¼ | 8 | 140 | 180 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 |
| 50 | 180 | ¼ | 8 | 150 | 200 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 |
| 63 | 180 | ¼ | 8 | 165 | 230 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 56 | 86 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 68 | 100 | 21 | 12 | 12 |
| 40 | 85 | 117 | 26 | 15 | 14 |
| 50 | 101 | 133 | 33 | 15 | 18 |
| 63 | 101 | 133 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With fixed flanges PVDF metric

**Model:**

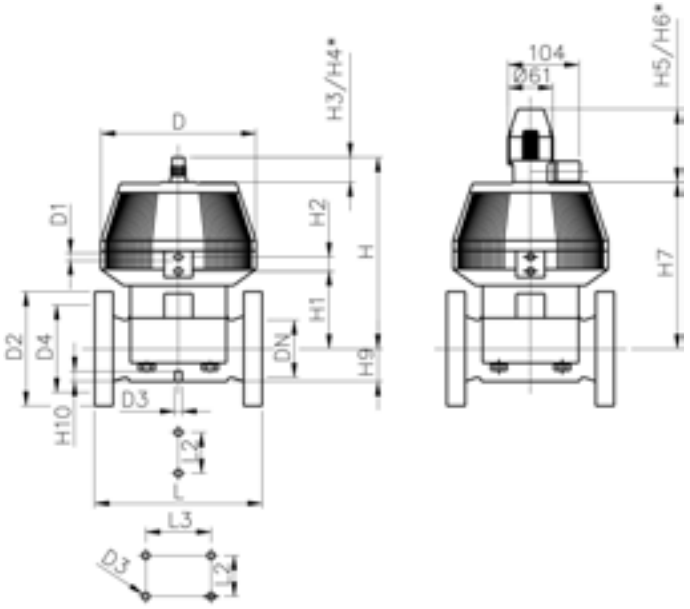
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 357** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 358** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 359** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **-** | |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# SYGEF® standard metric

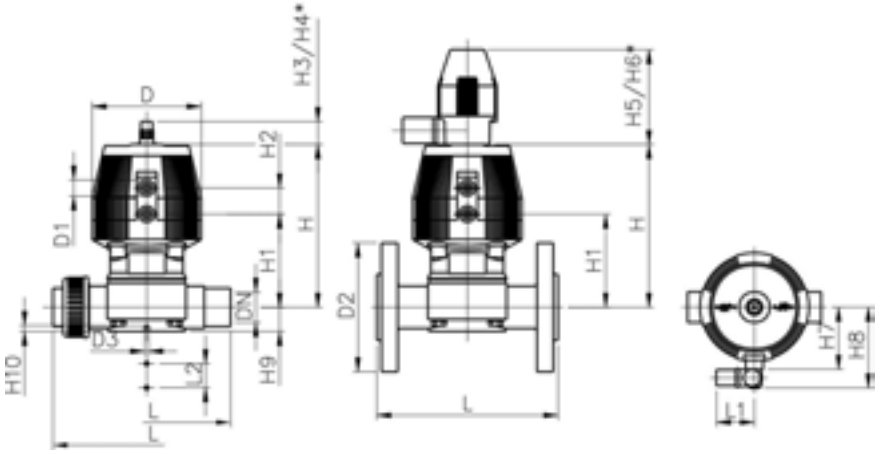
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 331** | 0.454 |
| 25 | 20 | 10 | 120 | **199 025 332** | 0.740 |
| 32 | 25 | 10 | 238 | **199 025 333** | 1.160 |
| 40 | 32 | 10 | 341 | **199 025 334** | 1.390 |
| 50 | 40 | 10 | 460 | **199 025 335** | 2.510 |
| 63 | 50 | 10 | 685 | **199 025 336** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

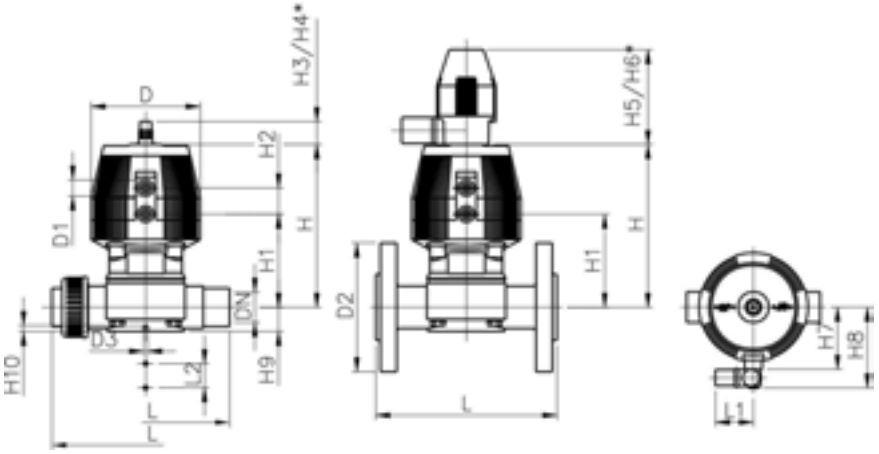
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 977** | 0.454 |
| 25 | 20 | 10 | 120 | **199 027 978** | 0.740 |
| 32 | 25 | 10 | 238 | **199 027 979** | 1.160 |
| 40 | 32 | 10 | 341 | **199 027 980** | 1.390 |
| 50 | 40 | 10 | 460 | **199 027 981** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 982** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

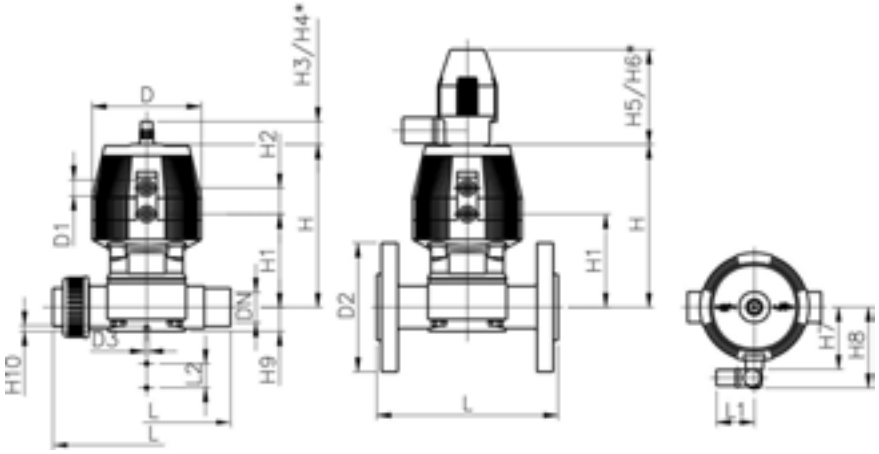
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 331** | 0.624 |
| 25 | 20 | 10 | 120 | **199 027 332** | 0.950 |
| 32 | 25 | 10 | 238 | **199 027 333** | 1.360 |
| 40 | 32 | 10 | 341 | **199 027 334** | 1.580 |
| 50 | 40 | 10 | 460 | **199 027 335** | 2.910 |
| 63 | 50 | 10 | 685 | **199 027 336** | 5.310 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

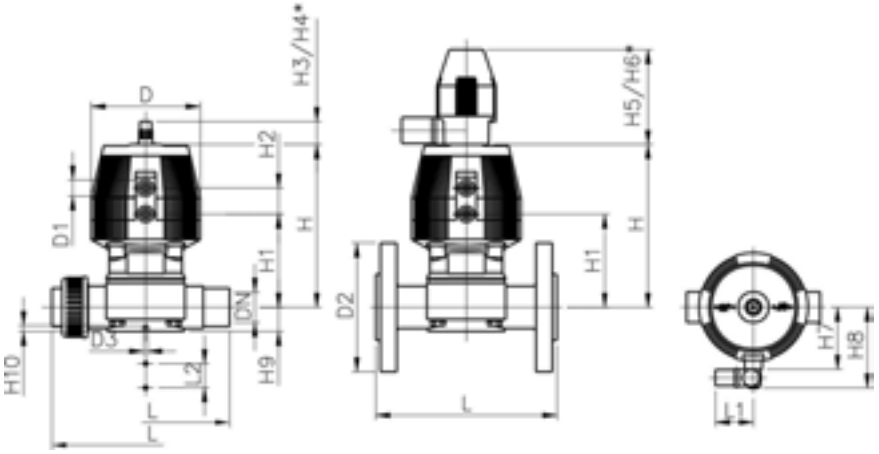
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## Unions with butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 501** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 502** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 503** | 0.624 |
| 40 | 32 | 10 | 341 | **199 027 504** | 2.604 |
| 50 | 40 | 10 | 460 | **199 027 505** | 4.165 |
| 63 | 50 | 10 | 685 | **199 027 506** | 4.553 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 220 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 258 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 320 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## With backing flanges PP-V metric

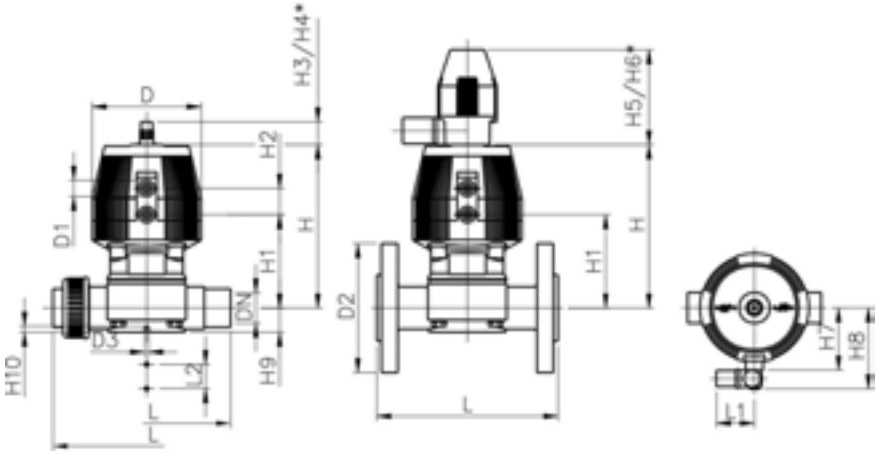
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 361** | 0.824 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 362** | 1.090 |
| 32 | 25 | 1 | 10 | 238 | **199 025 363** | 1.610 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 364** | 1.950 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 365** | 3.010 |
| 63 | 50 | 2 | 10 | 685 | **199 025 366** | 5.510 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function FO (Fail safe to open)
## With fixed flanges PVDF metric

**Model:**

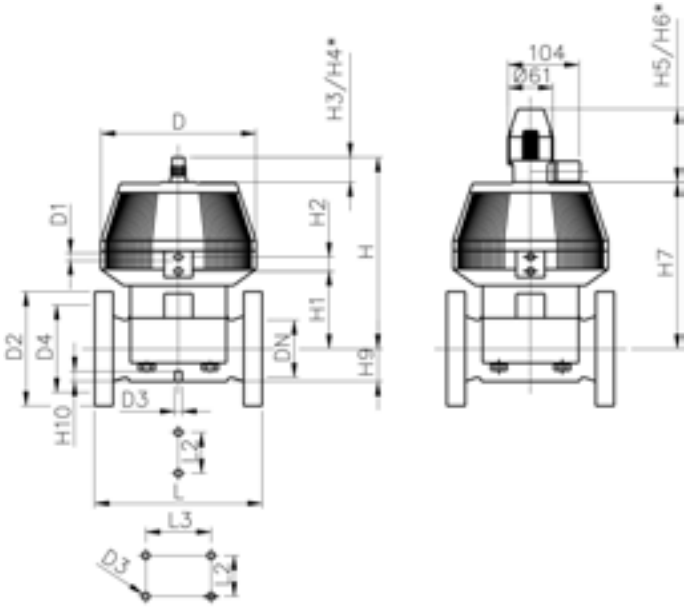
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 367** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 368** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 369** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 370** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | 0 | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# SYGEF® standard metric

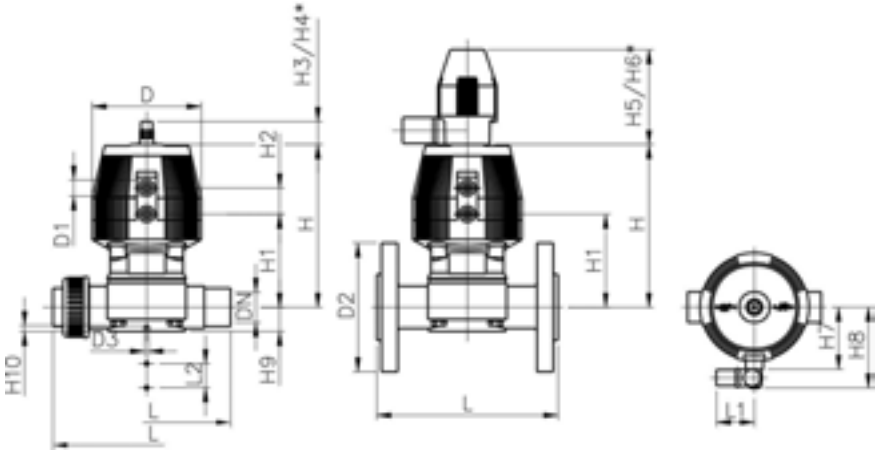
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## With fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 341** | 0.454 |
| 25 | 20 | 10 | 120 | **199 025 342** | 0.740 |
| 32 | 25 | 10 | 238 | **199 025 343** | 1.160 |
| 40 | 32 | 10 | 341 | **199 025 344** | 1.390 |
| 50 | 40 | 10 | 460 | **199 025 345** | 2.510 |
| 63 | 50 | 10 | 685 | **199 025 346** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

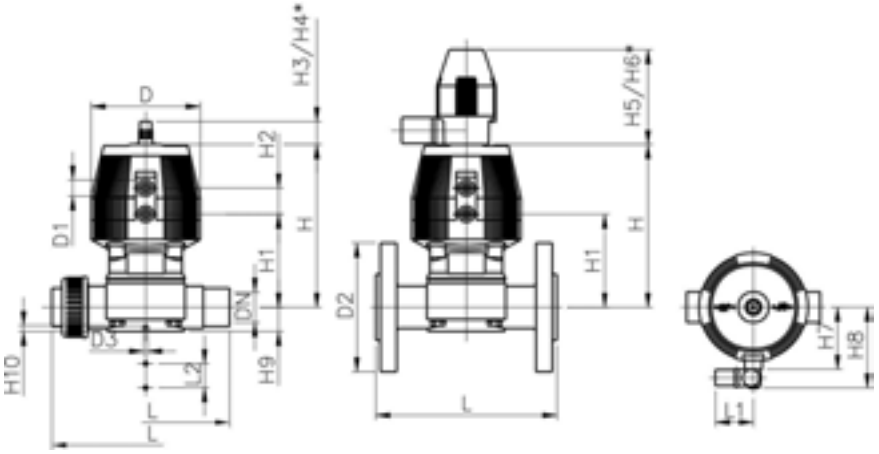
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 983** | 0.454 |
| 25 | 20 | 10 | 120 | **199 027 984** | 0.740 |
| 32 | 25 | 10 | 238 | **199 027 985** | 1.160 |
| 40 | 32 | 10 | 341 | **199 027 986** | 1.390 |
| 50 | 40 | 10 | 460 | **199 027 987** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 988** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

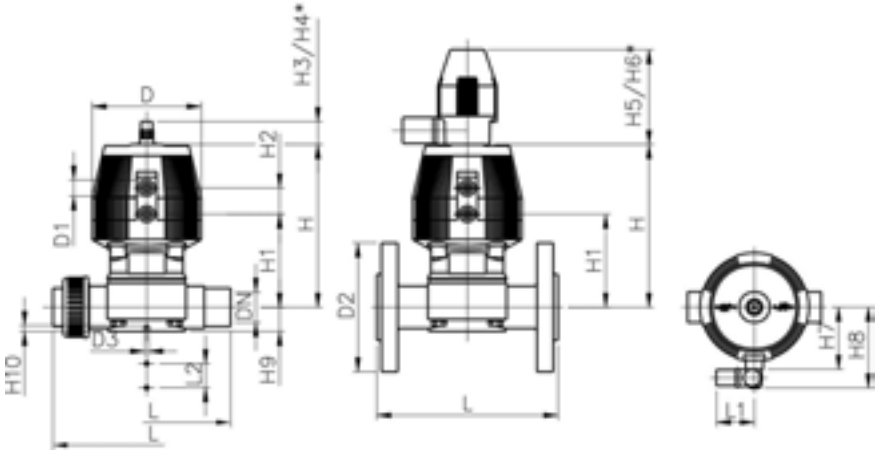
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## Unions with fusion sockets metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 341** | 0.624 |
| 25 | 20 | 10 | 120 | **199 027 342** | 0.950 |
| 32 | 25 | 10 | 238 | **199 027 343** | 1.360 |
| 40 | 32 | 10 | 341 | **199 027 344** | 1.580 |
| 50 | 40 | 10 | 460 | **199 027 345** | 2.910 |
| 63 | 50 | 10 | 685 | **199 027 346** | 5.310 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

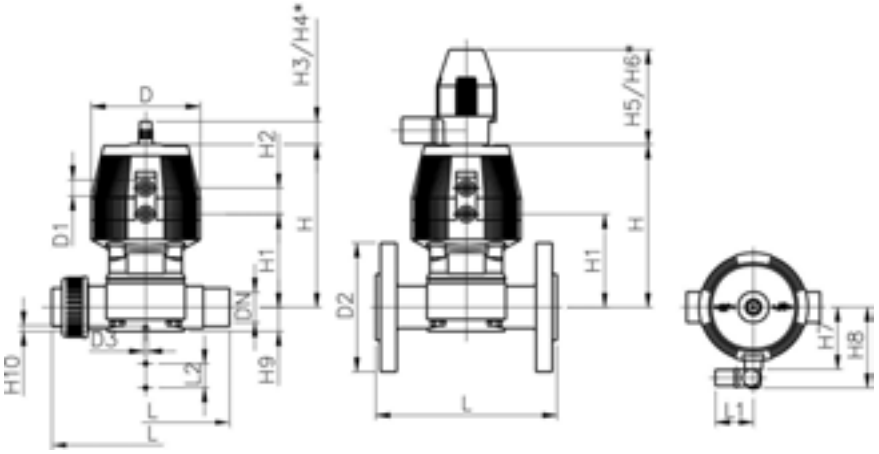
## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## Unions with butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 511** | 0.836 |
| 25 | 20 | 10 | 120 | **199 027 512** | 0.836 |
| 32 | 25 | 10 | 238 | **199 027 513** | 1.505 |
| 40 | 32 | 10 | 341 | **199 027 514** | 2.604 |
| 50 | 40 | 10 | 460 | **199 027 515** | 4.165 |
| 63 | 50 | 10 | 685 | **199 027 516** | 4.553 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 220 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 258 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 320 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## With backing flanges PP-V metric

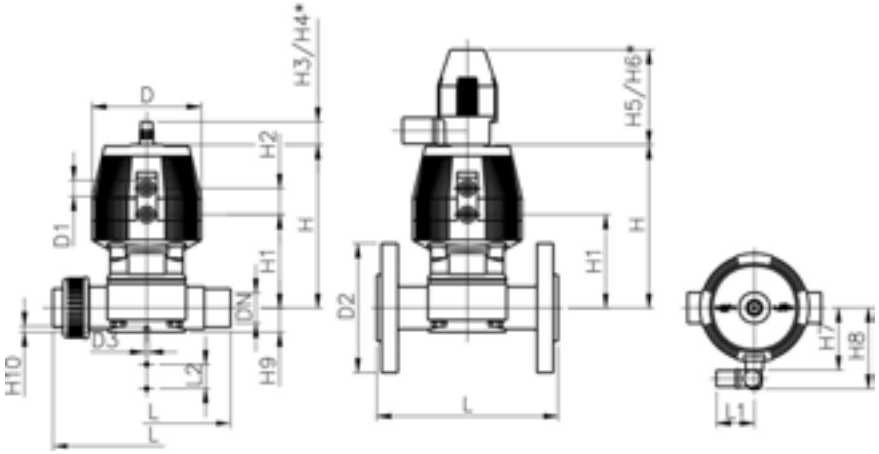
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 371** | 0.824 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 372** | 1.090 |
| 32 | 25 | 1 | 10 | 238 | **199 025 373** | 1.610 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 374** | 1.950 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 375** | 3.010 |
| 63 | 50 | 2 | 10 | 685 | **199 025 376** | 5.510 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 025
## Function DA (Double acting)
## With fixed flanges PVDF metric

**Model:**

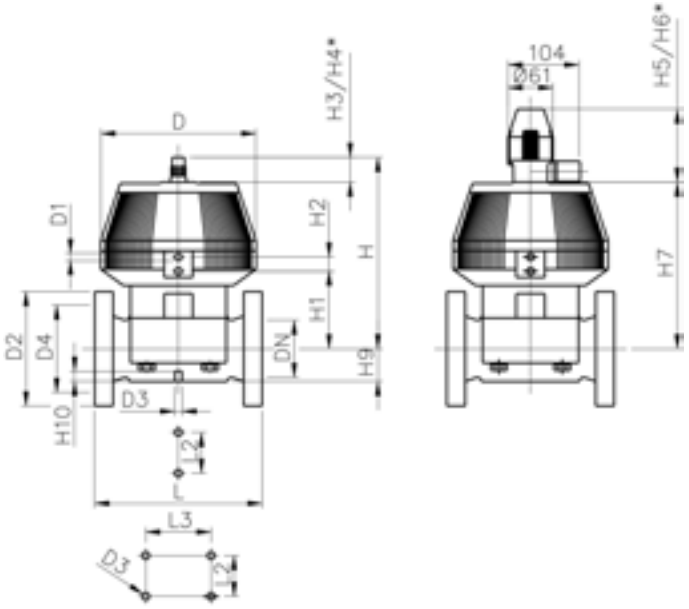
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 377** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 378** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 379** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 380** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



# SYGEF® standard metric

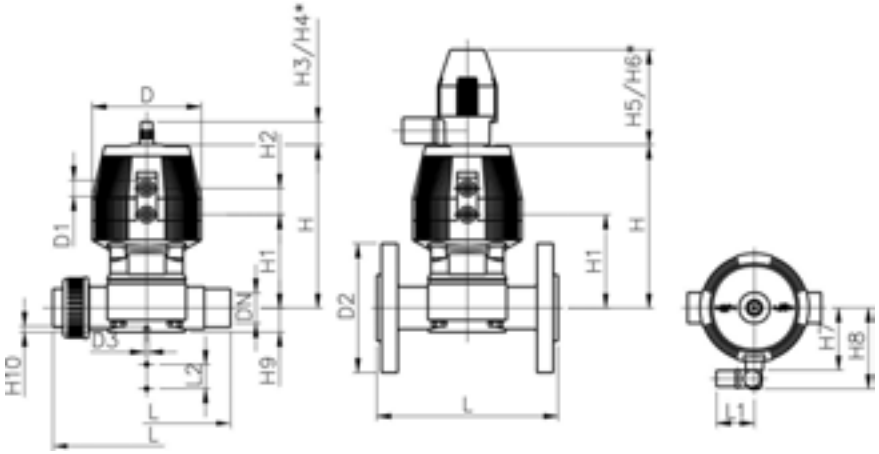
## SYGEF® standard
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## With fusion spigots metric

- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 5 | 72 | **199 028 321** | 0.520 |
| 25 | 20 | 7 | 120 | **199 028 322** | 0.950 |
| 32 | 25 | 7 | 238 | **199 028 323** | 1.370 |
| 40 | 32 | 7 | 341 | **199 028 324** | 1.810 |
| 50 | 40 | 7 | 460 | **199 028 325** | 3.350 |
| 63 | 50 | 7 | 685 | **199 028 326** | 6.270 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

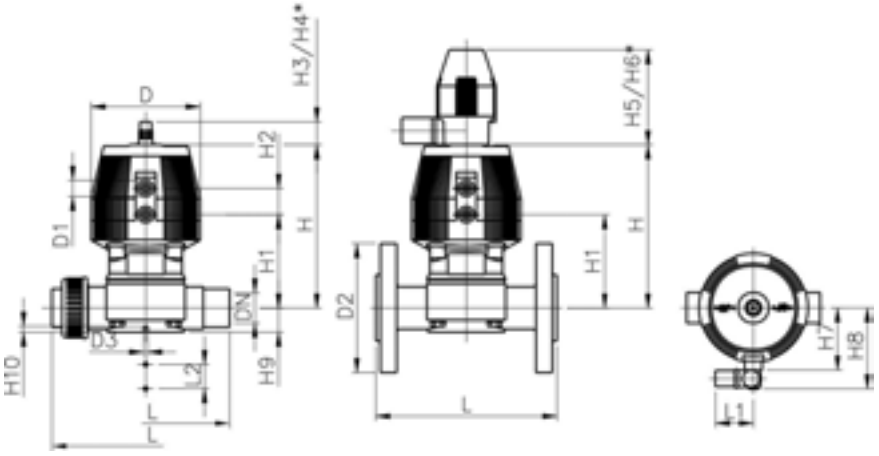
## SYGEF® standard
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## With butt fusion spigots IR metric

- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 5 | 72 | **199 028 961** | 0.520 |
| 25 | 20 | 7 | 120 | **199 028 962** | 0.950 |
| 32 | 25 | 7 | 238 | **199 028 963** | 1.500 |
| 40 | 32 | 7 | 341 | **199 028 964** | 1.810 |
| 50 | 40 | 7 | 460 | **199 028 965** | 3.350 |
| 63 | 50 | 7 | 685 | **199 028 966** | 6.270 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

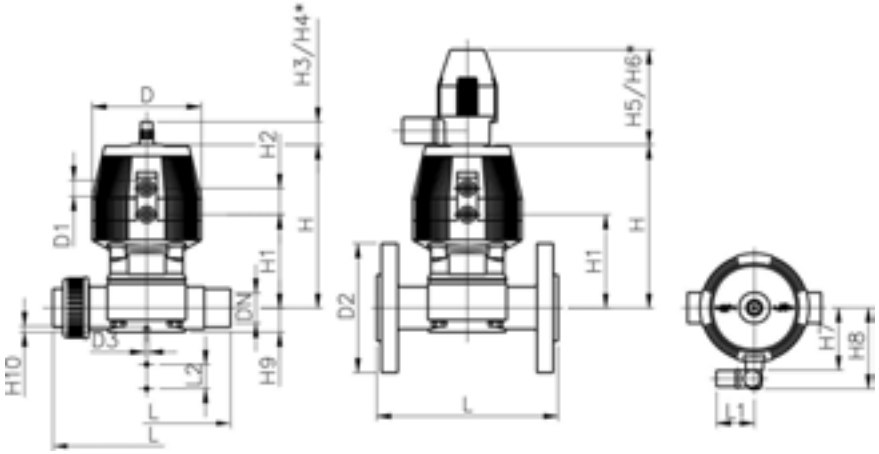
## SYGEF® standard
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## Unions with fusion sockets metric

- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 5 | 72 | **199 028 193** | 0.836 |
| 25 | 20 | 7 | 120 | **199 028 194** | 0.870 |
| 32 | 25 | 7 | 238 | **199 028 195** | 1.505 |
| 40 | 32 | 7 | 341 | **199 028 196** | 2.604 |
| 50 | 40 | 7 | 460 | **199 028 197** | 2.250 |
| 63 | 50 | 7 | 685 | **199 028 198** | 3.500 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 128 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 162 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 184 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 210 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 248 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

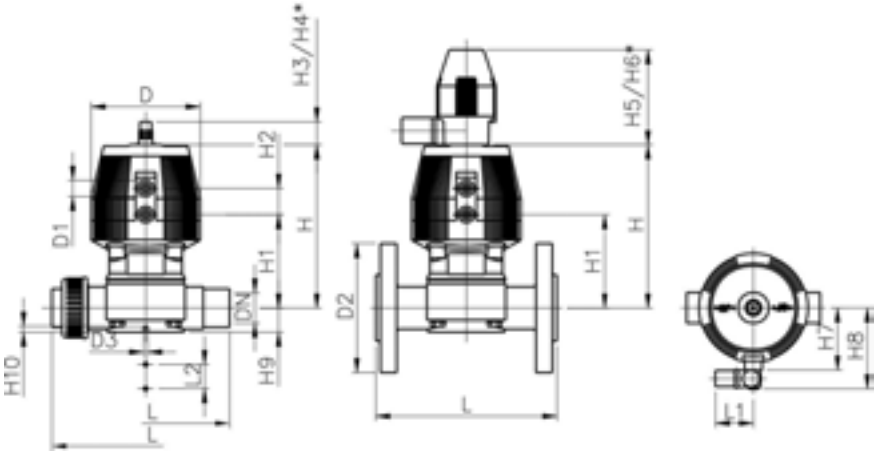
## SYGEF® standard
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## Unions with butt fusion spigots IR metric

- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 5 | 72 | **199 028 491** | 0.530 |
| 25 | 20 | 7 | 120 | **199 028 492** | 1.000 |
| 32 | 25 | 7 | 238 | **199 028 493** | 1.390 |
| 40 | 32 | 7 | 341 | **199 028 494** | 1.870 |
| 50 | 40 | 7 | 460 | **199 028 495** | 3.030 |
| 63 | 50 | 7 | 685 | **199 028 496** | 3.880 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 196 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 220 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 234 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 258 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 284 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 320 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® standard metric

## SYGEF® standard
## Diaphragm valve type DIASTAR 028
## Function FC (Fail safe to close)
## With backing flanges PP-V metric

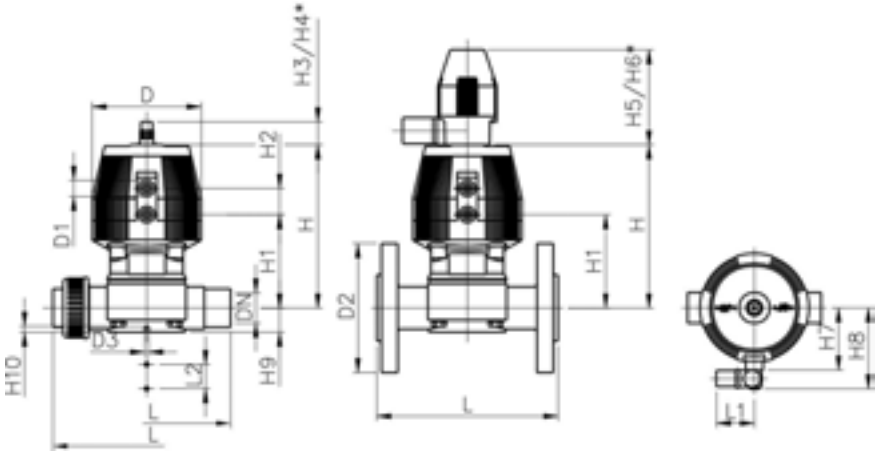
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 5 | 72 | **199 028 351** | 0.520 |
| 25 | 20 | ¾ | 7 | 120 | **199 028 352** | 0.950 |
| 32 | 25 | 1 | 7 | 238 | **199 028 353** | 1.370 |
| 40 | 32 | 1 ¼ | 7 | 341 | **199 028 354** | 1.810 |
| 50 | 40 | 1 ½ | 7 | 460 | **199 028 355** | 3.350 |
| 63 | 50 | 2 | 7 | 685 | **199 028 356** | 6.270 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 95 | 6 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 105 | 6 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 115 | 6 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 140 | 8 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 150 | 8 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 165 | 8 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



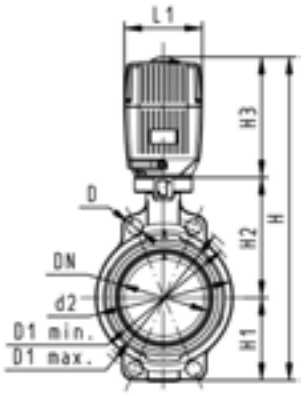
# SYGEF® standard metric

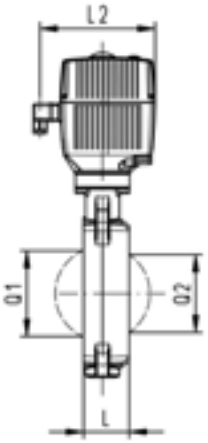
# Butterfly valves electric

## SYGEF® standard
## Butterfly valve type 140 100-230V
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 582** | 4.218 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 583** | 4.330 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 584** | 4.510 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 585** | 5.162 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 586** | 5.757 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 587** | 6.977 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 588** | 13.638 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

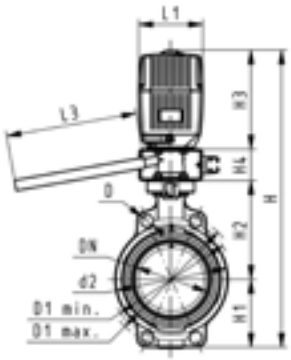
# SYGEF® standard metric

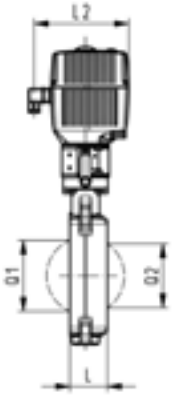
## SYGEF® standard
## Butterfly valve type 140 100-230V
## With manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 562** | 5.718 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 563** | 5.830 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 564** | 6.010 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 565** | 6.662 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 566** | 7.257 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 567** | 8.477 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 568** | 15.138 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

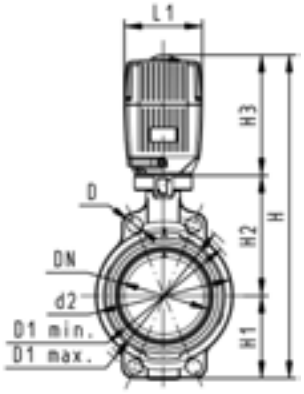
| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

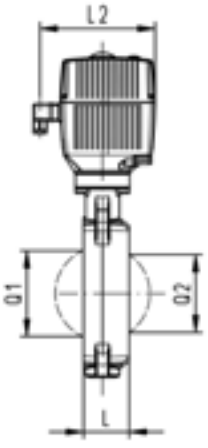
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 140 24V
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 622** | 4.218 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 623** | 4.330 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 624** | 4.510 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 625** | 5.162 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 626** | 5.757 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 627** | 6.977 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 628** | 13.638 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 400 | 77 | 134 | 188 | 45 | 122 | 180 | 40 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 413 | 83 | 140 | 188 | 46 | 122 | 180 | 54 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 428 | 89 | 146 | 188 | 49 | 122 | 180 | 67 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 460 | 104 | 167 | 188 | 56 | 122 | 180 | 88 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 487 | 117 | 181 | 188 | 64 | 122 | 180 | 113 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 508 | 130 | 189 | 188 | 72 | 122 | 180 | 139 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 575 | 158 | 210 | 208 | 73 | 122 | 180 | 178 |

| d [mm] | Q2 [mm] |
|---|---|
| 63 | |
| 75 | 35 |
| 90 | 50 |
| 110 | 74 |
| 140 | 97 |
| 160 | 123 |
| 225 | 169 |

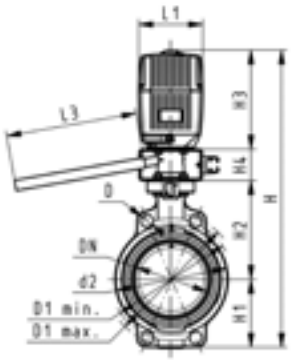
# SYGEF® standard metric

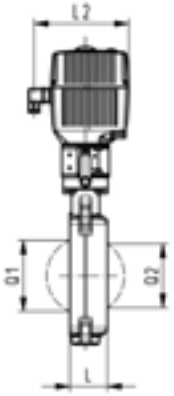
## SYGEF® standard
## Butterfly valve type 140 24V
## With manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 140 602** | 5.718 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 140 603** | 5.830 |
| 90 | 80 | 3 | 10 | 3000 | **199 140 604** | 6.010 |
| 110 | 100 | 4 | 10 | 6500 | **199 140 605** | 6.662 |
| 140 | 125 | 5 | 10 | 11500 | **199 140 606** | 7.257 |
| 160 | 150 | 6 | 10 | 16600 | **199 140 607** | 8.477 |
| 225 | 200 | 8 | 10 | 39600 | **199 140 608** | 15.138 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 19 | 120.0 | 125.0 | 104 | 460 | 77 | 134 | 188 | 60 | 45 | 122 | 180 |
| 75 | EA-31 | 19 | 139.7 | 145.0 | 115 | 473 | 83 | 140 | 188 | 60 | 46 | 122 | 180 |
| 90 | EA-31 | 19 | 150.0 | 160.0 | 131 | 488 | 89 | 146 | 188 | 60 | 49 | 122 | 180 |
| 110 | EA-31 | 19 | 175.0 | 190.5 | 161 | 520 | 104 | 167 | 188 | 60 | 56 | 122 | 180 |
| 140 | EA-31 | 23 | 210.0 | 215.9 | 187 | 547 | 117 | 181 | 188 | 60 | 64 | 122 | 180 |
| 160 | EA-31 | 24 | 241.3 | 241.3 | 215 | 568 | 130 | 189 | 188 | 60 | 72 | 122 | 180 |
| 225 | EA-42 | 23 | 290.0 | 295.0 | 267 | 635 | 158 | 210 | 208 | 60 | 73 | 122 | 180 |

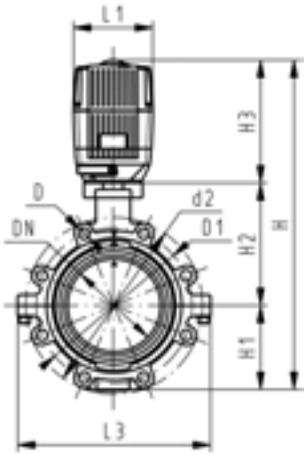
| d [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 250 | 40 | |
| 75 | 250 | 54 | 35 |
| 90 | 250 | 67 | 50 |
| 110 | 250 | 88 | 74 |
| 140 | 250 | 113 | 97 |
| 160 | 250 | 139 | 123 |
| 225 | 250 | 178 | 169 |

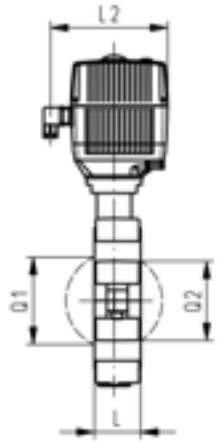
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 141 100-230V
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 582** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 583** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 584** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 585** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 586** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 587** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 588** |

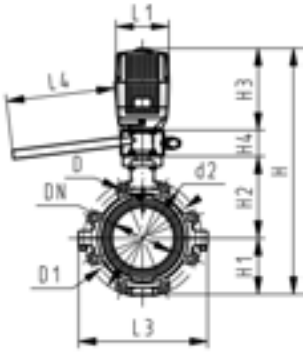
| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

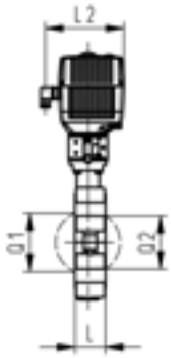
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 141 100-230V
## With manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 562** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 563** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 564** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 565** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 566** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 567** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 568** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

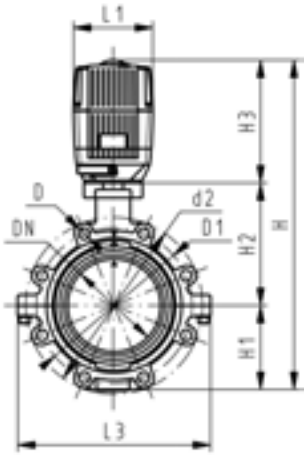
# SYGEF® standard metric

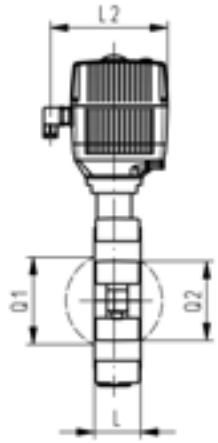
## SYGEF® standard
## Butterfly valve type 141 24V
## Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 622** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 623** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 624** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 625** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 626** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 627** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 628** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 | |
| 75 | EA-31 | M16 | 145 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 | 35 |
| 90 | EA-31 | M16 | 160 | 184 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 205 | 67 | 50 |
| 110 | EA-31 | M16 | 180 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 | 74 |
| 140 | EA-31 | M16 | 210 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 | 97 |
| 160 | EA-31 | M20 | 240 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 | 123 |
| 225 | EA-42 | M20 | 295 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 | 169 |

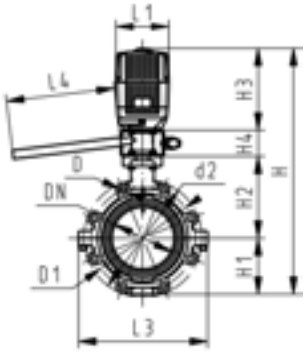
# SYGEF® standard metric

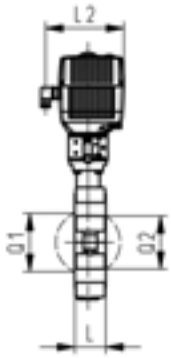
## SYGEF® standard
## Butterfly valve type 141 24V
## With manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 141 602** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 141 603** |
| 90 | 80 | 3 | 10 | 3000 | **199 141 604** |
| 110 | 100 | 4 | 10 | 6500 | **199 141 605** |
| 140 | 125 | 5 | 10 | 11500 | **199 141 606** |
| 160 | 150 | 6 | 10 | 16600 | **199 141 607** |
| 225 | 200 | 8 | 10 | 39600 | **199 141 608** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | M16 | 125 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 | 200 |
| 75 | EA-31 | M16 | 145 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 | 200 |
| 90 | EA-31 | M16 | 160 | 184 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 205 | 200 |
| 110 | EA-31 | M16 | 180 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 | 250 |
| 140 | EA-31 | M16 | 210 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 | 250 |
| 160 | EA-31 | M20 | 240 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 | 250 |
| 225 | EA-42 | M20 | 295 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 | 250 |

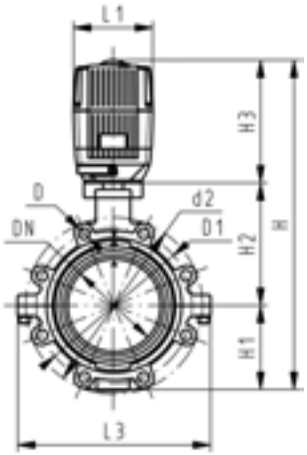
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

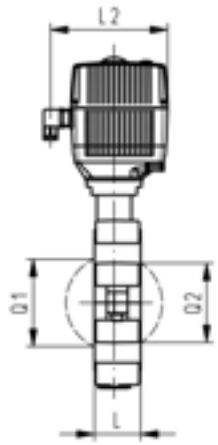
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 142 100-230V ANSI
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 582** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 583** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 584** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 585** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 586** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 587** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 588** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

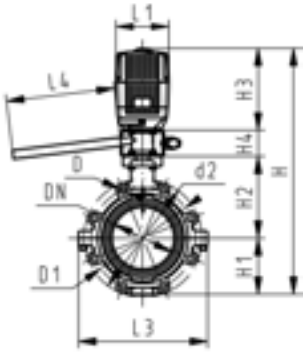
# SYGEF® standard metric

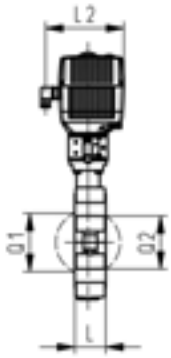
## SYGEF® standard
## Butterfly valve type 142 100-230V ANSI
## With manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 562** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 563** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 564** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 565** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 566** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 567** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 568** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

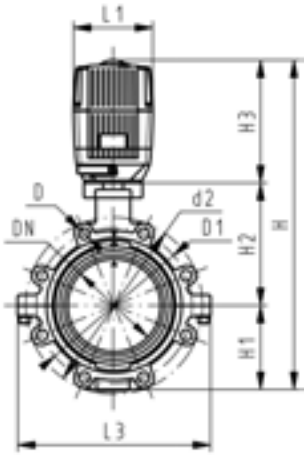
# SYGEF® standard metric

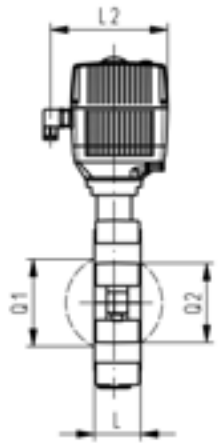
## SYGEF® standard
## Butterfly valve type 142 24V ANSI
## Without manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 622** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 623** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 624** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 625** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 626** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 627** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 628** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Q1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 399 | 77 | 134 | 188 | 45 | 122 | 180 | 150 | 40 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 411 | 83 | 140 | 188 | 46 | 122 | 180 | 160 | 54 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 423 | 89 | 146 | 188 | 49 | 122 | 180 | 175 | 67 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 459 | 104 | 167 | 188 | 56 | 122 | 180 | 244 | 88 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 486 | 117 | 181 | 188 | 64 | 122 | 180 | 272 | 113 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 507 | 130 | 189 | 188 | 72 | 122 | 180 | 297 | 139 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 576 | 158 | 210 | 208 | 73 | 122 | 180 | 360 | 178 |

| Inch | Q2 [mm] |
|---|---|
| 2 | |
| 2 ½ | 35 |
| 3 | 50 |
| 4 | 74 |
| 5 | 97 |
| 6 | 123 |
| 8 | 169 |

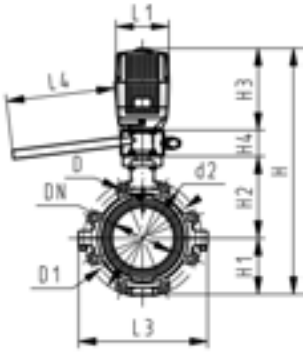
# SYGEF® standard metric

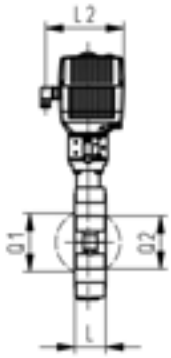
## SYGEF® standard
## Butterfly valve type 142 24V ANSI
## With manual override

New

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 142 602** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 142 603** |
| 3 | 80 | 90 | 10 | 3000 | **199 142 604** |
| 4 | 100 | 110 | 10 | 6500 | **199 142 605** |
| 5 | 125 | 140 | 10 | 11500 | **199 142 606** |
| 6 | 150 | 160 | 10 | 16600 | **199 142 607** |
| 8 | 200 | 225 | 10 | 39600 | **199 142 608** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | EA-31 | UNC 5/8 | 121 | 150 | 459 | 77 | 134 | 188 | 60 | 45 | 122 | 180 | 150 |
| 2 ½ | EA-31 | UNC 5/8 | 140 | 170 | 471 | 83 | 140 | 188 | 60 | 46 | 122 | 180 | 160 |
| 3 | EA-31 | UNC 5/8 | 153 | 177 | 483 | 89 | 146 | 188 | 60 | 49 | 122 | 180 | 175 |
| 4 | EA-31 | UNC 5/8 | 191 | 216 | 519 | 104 | 167 | 188 | 60 | 56 | 122 | 180 | 244 |
| 5 | EA-31 | UNC 3/4 | 216 | 246 | 546 | 117 | 181 | 188 | 60 | 64 | 122 | 180 | 272 |
| 6 | EA-31 | UNC 3/4 | 242 | 273 | 567 | 130 | 189 | 188 | 60 | 72 | 122 | 180 | 297 |
| 8 | EA-42 | UNC 3/4 | 299 | 334 | 636 | 158 | 210 | 208 | 60 | 73 | 122 | 180 | 360 |

| Inch | L4 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 200 | 40 | |
| 2 ½ | 200 | 54 | 35 |
| 3 | 200 | 67 | 50 |
| 4 | 250 | 88 | 74 |
| 5 | 250 | 113 | 97 |
| 6 | 250 | 139 | 123 |
| 8 | 250 | 178 | 169 |

# SYGEF® standard metric

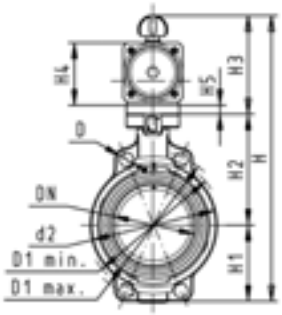
# Butterfly valves pneumatic

## SYGEF® standard
## Butterfly valve type 240
## FC (Fail safe to close)
## Without manual override

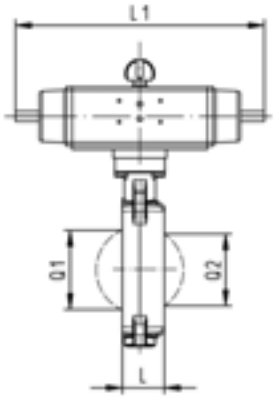
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 462** | 3.258 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 463** | 3.370 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 464** | 3.550 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 465** | 5.400 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 466** | 6.997 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 467** | 10.538 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 468** | 15.138 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FC | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FC | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FC | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FC | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FC | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FC | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |




| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

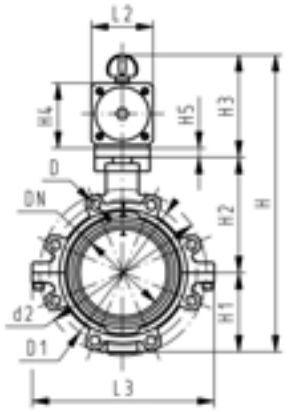
# SYGEF® standard metric

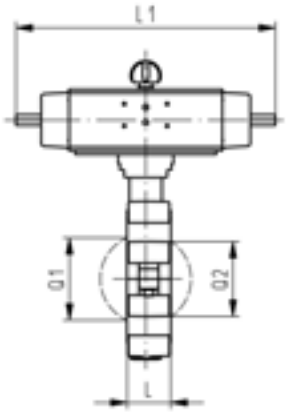
## SYGEF® standard
## Butterfly valve type 241
## FC (Fail safe to close)
## Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 462** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 463** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 464** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 465** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 466** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 467** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 468** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FC | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FC | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FC | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FC | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FC | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FC | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FC | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |

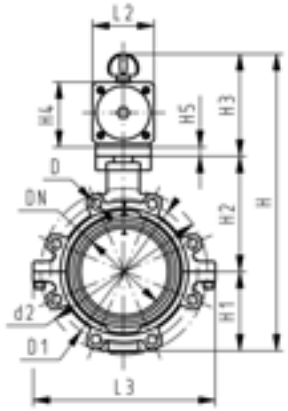
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

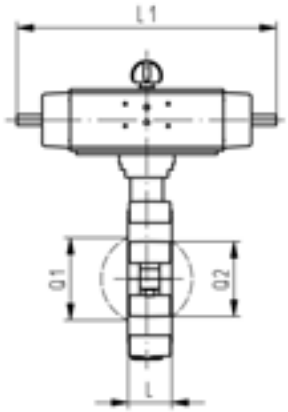
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 242 ANSI
## FC (Fail safe to close)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 462** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 463** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 464** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 465** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 466** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 467** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 468** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FC | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FC | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FC | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FC | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FC | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FC | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FC | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

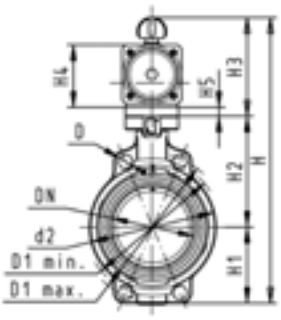
| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

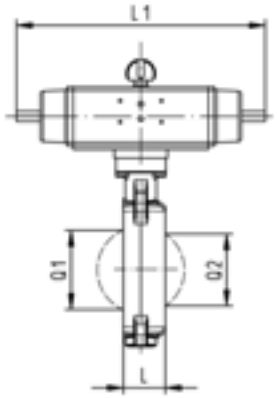
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 240
## FO (Fail safe to open)
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 482** | 3.258 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 483** | 3.370 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 484** | 3.550 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 485** | 5.400 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 486** | 6.997 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 487** | 10.538 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 488** | 15.138 |

| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | 19 | 120.0 | 125.0 | 104 | 327 | 77 | 134 | 117 | 70 | 15 | 45 | 276 |
| 75 | PA-30 FO | 19 | 139.7 | 145.0 | 115 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 |
| 90 | PA-35 FO | 19 | 150.0 | 160.0 | 131 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 |
| 110 | PA-40 FO | 19 | 175.0 | 190.5 | 161 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 |
| 140 | PA-45 FO | 23 | 210.0 | 215.9 | 187 | 436 | 117 | 181 | 139 | 96 | | 64 | 411 |
| 160 | PA-50 FO | 24 | 241.3 | 241.3 | 215 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 |
| 225 | PA-55 FO | 23 | 290.0 | 295.0 | 267 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 |

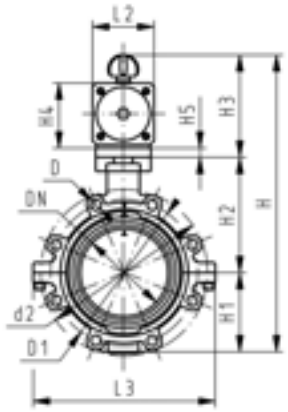
| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 65 | 40 | |
| 75 | 65 | 54 | 35 |
| 90 | 72 | 67 | 50 |
| 110 | 80 | 88 | 74 |
| 140 | 90 | 113 | 97 |
| 160 | 100 | 139 | 123 |
| 225 | 112 | 178 | 169 |

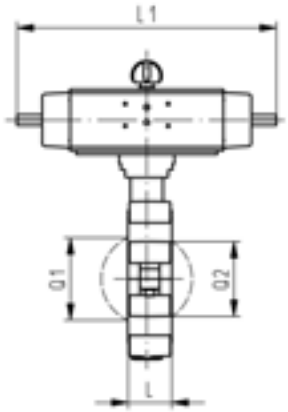
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 241
## FO (Fail safe to open)
## Without manual override

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 482** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 483** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 484** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 485** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 486** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 487** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 488** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-30 FO | M16 | 125 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 | 150 |
| 75 | PA-30 FO | M16 | 145 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 | 160 |
| 90 | PA-35 FO | M16 | 160 | 184 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 | 205 |
| 110 | PA-40 FO | M16 | 180 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 | 244 |
| 140 | PA-45 FO | M16 | 210 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 | 272 |
| 160 | PA-50 FO | M20 | 240 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 | 297 |
| 225 | PA-55 FO | M20 | 295 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 | 360 |

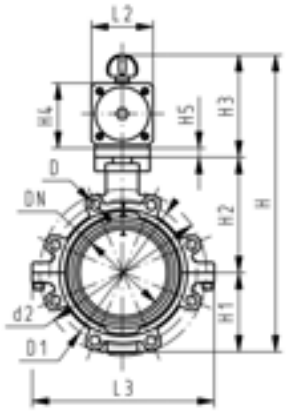
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

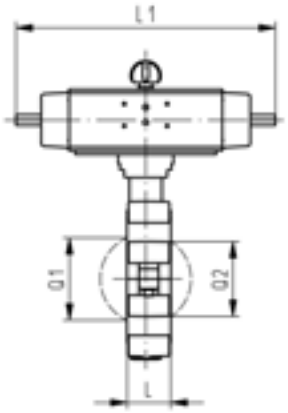
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 242 ANSI
## FO (Fail safe to open)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 482** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 483** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 484** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 485** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 486** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 487** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 488** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-30 FO | UNC 5/8 | 121 | 150 | 328 | 77 | 134 | 117 | 70 | 15 | 45 | 276 | 65 |
| 2 ½ | PA-30 FO | UNC 5/8 | 140 | 170 | 340 | 83 | 140 | 117 | 70 | 15 | 46 | 276 | 65 |
| 3 | PA-35 FO | UNC 5/8 | 153 | 177 | 361 | 89 | 146 | 126 | 78 | 15 | 49 | 326 | 72 |
| 4 | PA-40 FO | UNC 5/8 | 191 | 216 | 400 | 104 | 167 | 129 | 86 | | 56 | 370 | 80 |
| 5 | PA-45 FO | UNC 3/4 | 216 | 246 | 437 | 117 | 181 | 139 | 96 | | 64 | 411 | 90 |
| 6 | PA-50 FO | UNC 3/4 | 242 | 273 | 468 | 130 | 189 | 149 | 106 | | 72 | 423 | 100 |
| 8 | PA-55 FO | UNC 3/4 | 299 | 334 | 529 | 158 | 210 | 161 | 118 | | 73 | 452 | 112 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

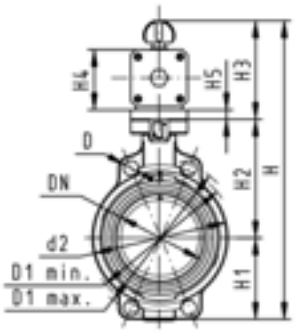
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 240
## DA (Double acting)
## Without manual override

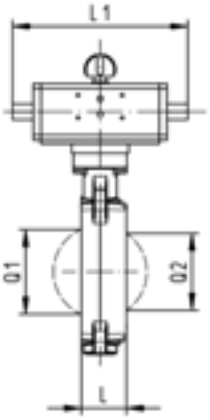
**Model:**

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code | kg |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 240 502** | 2.108 |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 240 503** | 2.220 |
| 90 | 80 | 3 | 10 | 3000 | **199 240 504** | 2.881 |
| 110 | 100 | 4 | 10 | 6500 | **199 240 505** | 3.652 |
| 140 | 125 | 5 | 10 | 11500 | **199 240 506** | 4.247 |
| 160 | 150 | 6 | 10 | 16600 | **199 240 507** | 7.017 |
| 225 | 200 | 8 | 10 | 39600 | **199 240 508** | 9.138 |




| d [mm] | Actuator unit type | D [mm] | D1 min. [mm] | D1 max. [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | 19 | 120.0 | 125.0 | 104 | 317 | 77 | 134 | 107 | 60 | 15 | 45 | 177 |
| 75 | PA-35 DA | 19 | 139.7 | 145.0 | 115 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 |
| 90 | PA-40 DA | 19 | 150.0 | 160.0 | 131 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 |
| 110 | PA-45 DA | 19 | 175.0 | 190.5 | 161 | 372 | 104 | 167 | 102 | 71 | | 56 | 198 |
| 140 | PA-45 DA | 23 | 210.0 | 215.9 | 187 | 408 | 117 | 181 | 111 | 78 | | 64 | 235 |
| 160 | PA-55 DA | 24 | 241.3 | 241.3 | 215 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 |
| 225 | PA-55 DA | 23 | 290.0 | 295.0 | 267 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 |




| d [mm] | L2 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 63 | 55 | 40 | |
| 75 | 55 | 54 | 35 |
| 90 | 60 | 67 | 50 |
| 110 | 65 | 88 | 74 |
| 140 | 72 | 113 | 97 |
| 160 | 80 | 139 | 123 |
| 225 | 90 | 178 | 169 |

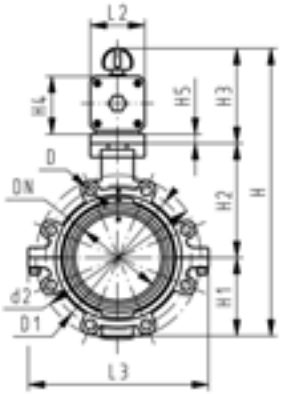
# SYGEF® standard metric

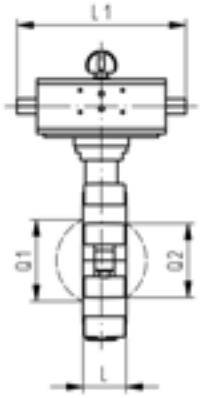
## SYGEF® standard
## Butterfly valve type 241
## DA (Double acting)
## Without manual override

New

**Model:**

- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)




| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 1470 | **199 241 502** |
| 75 | 65 | 2 ½ | 10 | 2200 | **199 241 503** |
| 90 | 80 | 3 | 10 | 3000 | **199 241 504** |
| 110 | 100 | 4 | 10 | 6500 | **199 241 505** |
| 140 | 125 | 5 | 10 | 11500 | **199 241 506** |
| 160 | 150 | 6 | 10 | 16600 | **199 241 507** |
| 225 | 200 | 8 | 10 | 39600 | **199 241 508** |

| d [mm] | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | PA-35 DA | M16 | 125 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 | 150 |
| 75 | PA-35 DA | M16 | 145 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 | 160 |
| 90 | PA-40 DA | M16 | 160 | 184 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 | 205 |
| 110 | PA-45 DA | M16 | 180 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 | 244 |
| 140 | PA-45 DA | M16 | 210 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 | 272 |
| 160 | PA-55 DA | M20 | 240 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 | 297 |
| 225 | PA-55 DA | M20 | 295 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 | 360 |

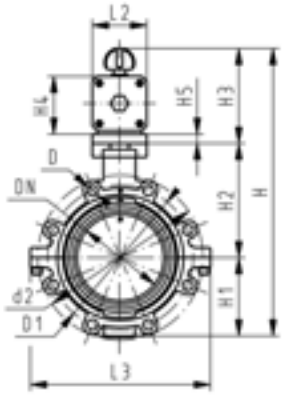
| d [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|
| 63 | 40 | |
| 75 | 54 | 35 |
| 90 | 67 | 50 |
| 110 | 88 | 74 |
| 140 | 113 | 97 |
| 160 | 139 | 123 |
| 225 | 178 | 169 |

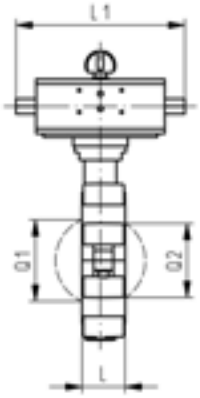
# SYGEF® standard metric

## SYGEF® standard
## Butterfly valve type 242 ANSI
## DA (Double acting)
## Without manual override

**Model:**

- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<)



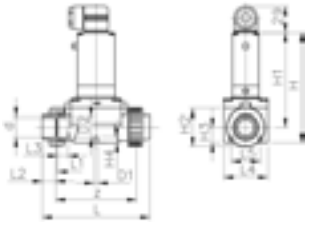

| Inch | DN [mm] | d [mm] | PN | kv-value (Δp=1 bar) [l/min] | FPM Code |
|---|---|---|---|---|---|
| 2 | 50 | 63 | 10 | 1470 | **199 242 502** |
| 2 ½ | 65 | 75 | 10 | 2200 | **199 242 503** |
| 3 | 80 | 90 | 10 | 3000 | **199 242 504** |
| 4 | 100 | 110 | 10 | 6500 | **199 242 505** |
| 5 | 125 | 140 | 10 | 11500 | **199 242 506** |
| 6 | 150 | 160 | 10 | 16600 | **199 242 507** |
| 8 | 200 | 225 | 10 | 39600 | **199 242 508** |

| Inch | Actuator unit type | D | D1 [mm] | d2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | L [mm] | L1 [mm] | L2 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | PA-35 DA | UNC 5/8 | 121 | 150 | 318 | 77 | 134 | 107 | 60 | 15 | 45 | 177 | 55 |
| 2 ½ | PA-35 DA | UNC 5/8 | 140 | 170 | 330 | 83 | 140 | 107 | 60 | 15 | 46 | 177 | 55 |
| 3 | PA-40 DA | UNC 5/8 | 153 | 177 | 348 | 89 | 146 | 113 | 66 | 15 | 49 | 190 | 60 |
| 4 | PA-45 DA | UNC 5/8 | 191 | 216 | 373 | 104 | 167 | 102 | 71 | | 56 | 198 | 65 |
| 5 | PA-45 DA | UNC 3/4 | 216 | 246 | 409 | 117 | 181 | 111 | 78 | | 64 | 235 | 72 |
| 6 | PA-55 DA | UNC 3/4 | 242 | 273 | 448 | 130 | 189 | 129 | 86 | | 72 | 250 | 80 |
| 8 | PA-55 DA | UNC 3/4 | 299 | 334 | 507 | 158 | 210 | 139 | 96 | | 73 | 279 | 90 |

| Inch | L3 [mm] | Q1 [mm] | Q2 [mm] |
|---|---|---|---|
| 2 | 150 | 40 | |
| 2 ½ | 160 | 54 | 35 |
| 3 | 175 | 67 | 50 |
| 4 | 244 | 88 | 74 |
| 5 | 272 | 113 | 97 |
| 6 | 297 | 139 | 123 |
| 8 | 360 | 178 | 169 |

# SYGEF® standard metric

# Solenoid valves



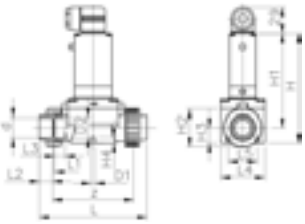
## SYGEF® standard
## Solenoid valve type 165
## Standard voltage 230V 50 Hz
## With fusion sockets metric

- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF

| d [mm] | DN [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 6.0 | 83 | **199 165 412** | **199 165 402** | 0.700 |
| 25 | 20 | 0.5 - 6.0 | 100 | **199 165 413** | **199 165 403** | 0.700 |
| 32 | 25 | 0.5 - 6.0 | 233 | **199 165 414** | **199 165 404** | 1.200 |
| 40 | 32 | 0.5 - 6.0 | 500 | **199 165 415** | **199 165 405** | 1.300 |
| 50 | 40 | 0.5 - 6.0 | 500 | **199 165 416** | **199 165 406** | 2.200 |
| 63 | 50 | 0.5 - 6.0 | 600 | **199 165 417** | **199 165 407** | 2.200 |

| d [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 120 | 147 | 109 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | 25 | 120 | 151 | 109 | 18 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 32 | | 150 | 185 | 139 | 20 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | 40 | 150 | 189 | 139 | 22 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 50 | | 200 | 245 | 189 | 25 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 63 | 63 | 200 | 253 | 189 | 29 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

# SYGEF® standard metric



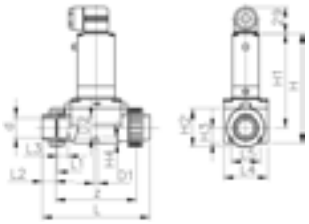
## SYGEF® standard
## Solenoid valve type 165
## Standard voltage 115V 50 Hz
## With fusion sockets metric

- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF

| d [mm] | DN [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 6.0 | 83 | **199 165 442** | **199 165 432** | 0.700 |
| 25 | 20 | 0.5 - 6.0 | 100 | **199 165 443** | **199 165 433** | 0.700 |
| 32 | 25 | 0.5 - 6.0 | 233 | **199 165 444** | **199 165 434** | 1.200 |
| 40 | 32 | 0.5 - 6.0 | 267 | **199 165 445** | **199 165 435** | 1.200 |
| 50 | 40 | 0.5 - 6.0 | 500 | **199 165 446** | **199 165 436** | 2.200 |
| 63 | 50 | 0.5 - 6.0 | 600 | **199 165 447** | **199 165 437** | 2.200 |

| d [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 120 | 147 | 109 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | 25 | 120 | 151 | 109 | 18 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 32 | | 150 | 185 | 139 | 20 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | 40 | 150 | 189 | 139 | 22 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 50 | | 200 | 245 | 189 | 25 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 63 | 63 | 200 | 253 | 189 | 29 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

# SYGEF® standard metric



## SYGEF® standard
## Solenoid valve type 165
## Standard voltage 24V DC
## With fusion sockets metric

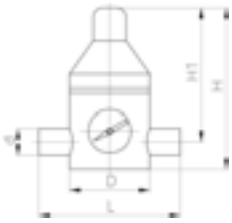
- Solenoid valve 2/2 ways
- Servo assisted
- Function A
- Function B on request
- Attention: Some inner parts in contact with the media are made of PVDF

| d [mm] | DN [mm] | PN [bar] | kv-value (Δp=1 bar) [l/min] | EPDM Code | FPM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 6.0 | 83 | **199 165 422** | **199 165 452** | 0.700 |
| 25 | 20 | 0.5 - 6.0 | 100 | **199 165 423** | **199 165 453** | 0.700 |
| 32 | 25 | 0.5 - 6.0 | 233 | **199 165 424** | **199 165 454** | 1.300 |
| 40 | 32 | 0.5 - 6.0 | 267 | **199 165 425** | **199 165 455** | 1.200 |
| 50 | 40 | 0.5 - 6.0 | 500 | **199 165 426** | **199 165 456** | 2.200 |
| 63 | 50 | 0.5 - 6.0 | 600 | **199 165 427** | **199 165 457** | 2.200 |

| d [mm] | D2 [mm] | z [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | 120 | 147 | 109 | 16 | | 63 | 40 | 148 | 122 | 53 | 22 | 8 |
| 25 | 25 | 120 | 151 | 109 | 18 | 18 | 62 | 40 | 148 | 122 | 53 | 22 | 8 |
| 32 | | 150 | 185 | 139 | 20 | | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 40 | 40 | 150 | 189 | 139 | 22 | 23 | 85 | 45 | 175 | 137 | 76 | 31 | 15 |
| 50 | | 200 | 245 | 189 | 25 | | 115 | 45 | 212 | 160 | 105 | 42 | 15 |
| 63 | 63 | 200 | 253 | 189 | 29 | 33 | 115 | 45 | 212 | 160 | 105 | 42 | 15 |

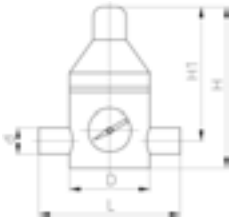
# SYGEF® standard metric

# Process control valves




## SYGEF® standard
## Pressure reducing valve type V 82
## With fusion spigots metric

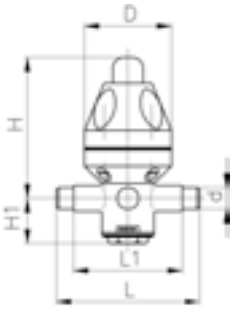
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 052** | 0.790 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 053** | 0.790 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 054** | 1.620 | 100 | 174 | 170 | 130 |
| 32 | 25 | 0.5 - 10 | **199 041 055** | 1.620 | 100 | 174 | 170 | 130 |
| 40 | 32 | 0.5 - 10 | **199 041 056** | 3.150 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 057** | 3.150 | 130 | 224 | 230 | 175 |
| 63 | 50 | 0.5 - 10 | **199 041 058** | 5.700 | 155 | 244 | 285 | 210 |
| 75 | 65 | 0.5 - 6 | **199 041 059** | 11.600 | 190 | 284 | 350 | 250 |




## SYGEF® standard
## Pressure reducing valve type V 182
## With fusion spigots metric

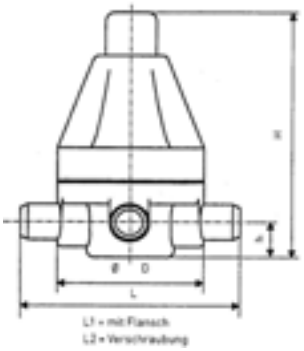
| d [mm] | DN [mm] | Pressure range [bar] | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 661** | 0.790 | 70 | 134 | 130 | 100 |
| 20 | 15 | 0.5 - 10 | **199 041 662** | 0.790 | 70 | 134 | 130 | 100 |
| 25 | 20 | 0.5 - 10 | **199 041 663** | 1.620 | 100 | 174 | 170 | 130 |
| 32 | 25 | 0.5 - 10 | **199 041 664** | 1.620 | 100 | 174 | 170 | 130 |
| 40 | 32 | 0.5 - 10 | **199 041 665** | 3.150 | 130 | 224 | 230 | 175 |
| 50 | 40 | 0.5 - 10 | **199 041 666** | 3.150 | 130 | 224 | 230 | 175 |

# SYGEF® standard metric




## SYGEF® standard
## Pressure reducing valve type V 782
## With fusion spigots metric

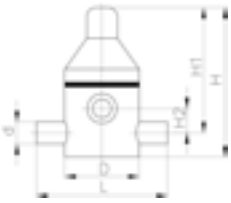
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 084** | 1.300 | 83 | 134 | 102 | 138 | 48 |
| 20 | 15 | 0.5 - 10 | **199 041 085** | 1.300 | 83 | 134 | 102 | 138 | 48 |
| 25 | 20 | 0.5 - 10 | **199 041 086** | 1.700 | 113 | 154 | 110 | 205 | 65 |
| 32 | 25 | 0.5 - 10 | **199 041 087** | 1.700 | 113 | 154 | 110 | 205 | 65 |
| 40 | 32 | 0.5 - 10 | **199 041 088** | 4.840 | 165 | 224 | 162 | 248 | 95 |
| 50 | 40 | 0.5 - 10 | **199 041 089** | 4.840 | 165 | 224 | 162 | 248 | 95 |




## SYGEF® standard
## Pressure relief valve type V 185
## With fusion spigots metric

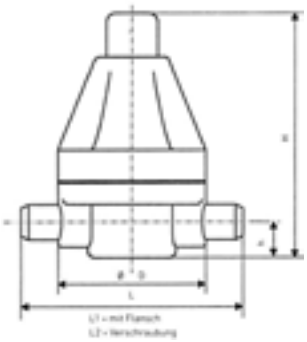
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 344** | 0.700 | 83 | 134 | 137 | 20 |
| 20 | 15 | 0.5 - 10 | **199 041 345** | 0.700 | 83 | 134 | 137 | 20 |
| 25 | 20 | 0.5 - 10 | **199 041 346** | 0.700 | 83 | 134 | 137 | 20 |
| 32 | 25 | 0.5 - 10 | **199 041 347** | 1.700 | 112 | 174 | 199 | 27 |
| 40 | 32 | 0.5 - 10 | **199 041 348** | 1.700 | 112 | 174 | 199 | 27 |
| 50 | 40 | 0.5 - 10 | **199 041 349** | 8.100 | 165 | 224 | 290 | 43 |
| 63 | 50 | 0.5 - 10 | **199 041 350** | 8.300 | 165 | 244 | 290 | 43 |

# SYGEF® standard metric



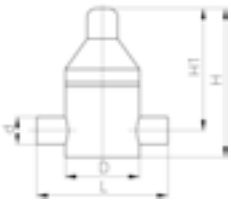
## SYGEF® standard
## Pressure relief valve type V 85
## With fusion spigots metric

| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 1.0 - 6 | **199 041 898** | 13.000 | 180 | 284 | 295 | 250 | 70 |



## SYGEF® standard
## Pressure retaining valve type V 186
## With fusion spigots metric

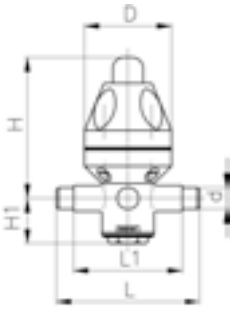
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 323** | 0.600 | 83 | 134 | 137 | 20 |
| 20 | 15 | 0.5 - 10 | **199 041 324** | 0.600 | 83 | 134 | 137 | 20 |
| 25 | 20 | 0.5 - 10 | **199 041 325** | 0.600 | 83 | 134 | 137 | 20 |
| 32 | 25 | 0.5 - 10 | **199 041 326** | 1.600 | 112 | 174 | 199 | 27 |
| 40 | 32 | 0.5 - 10 | **199 041 327** | 1.600 | 112 | 174 | 199 | 27 |
| 50 | 40 | 0.5 - 10 | **199 041 328** | 8.000 | 165 | 224 | 290 | 43 |
| 63 | 50 | 0.5 - 10 | **199 041 329** | 8.200 | 165 | 244 | 290 | 43 |



## SYGEF® standard
## Pressure retaining valve type V 86
## With fusion spigots metric

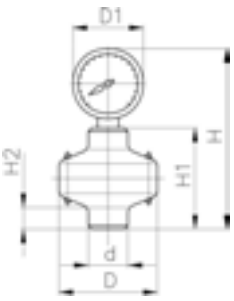
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 75 | 65 | 1.0 - 6 | **199 041 892** | 7.730 | 180 | 284 | 275 | 230 |

# SYGEF® standard metric




## SYGEF® standard
## Pressure retaining valve type V 786
## With fusion spigots metric

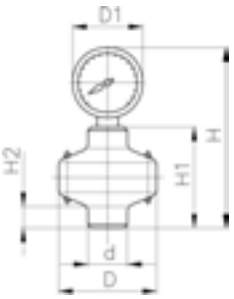
| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 0.5 - 10 | **199 041 114** | 0.620 | 83 | 134 | 102 | 138 | 38 | |
| 20 | 15 | 0.5 - 10 | **199 041 115** | 0.620 | 83 | 134 | 102 | 158 | 38 | |
| 25 | 20 | 0.5 - 10 | **199 041 116** | 1.700 | 113 | 154 | 110 | 205 | 55 | |
| 32 | 25 | 0.5 - 10 | **199 041 117** | 1.700 | 113 | 154 | 110 | 205 | 55 | |
| 40 | 32 | 0.5 - 4 | **199 041 118** | 4.840 | 165 | 224 | 162 | 248 | 85 | |
| 50 | 40 | 0.5 - 4 | **199 041 119** | 4.840 | 165 | 224 | 162 | 248 | 85 | |




## SYGEF® standard
## Gauge guard type Z 700
## With manometer 0-10 bar

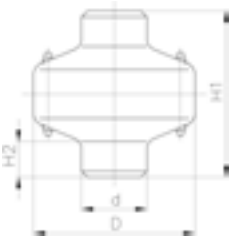
| d [mm] | G [inch] | PTFE Code | kg | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 25 | ¼ | **199 041 004** | 0.320 | 72 | 63 | 129 | 71 | 15 | |
| 32 | ½ | **199 041 005** | 0.670 | 100 | 100 | 210 | 90 | 22 | |

# SYGEF® standard metric




## SYGEF® standard
## Gauge guard type Z 700
## With manometer 0-6 bar

| d [mm] | G [inch] | PTFE Code | kg | D [mm] | D1 [mm] | H [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|---|---|
| 25 | ¼ | **199 041 296** | 0.320 | 72 | 63 | 129 | 71 | 15 |
| 32 | ½ | **199 041 297** | 0.670 | 100 | 100 | 210 | 90 | 22 |




## SYGEF® standard
## Gauge guard type Z 701
## Without manometer

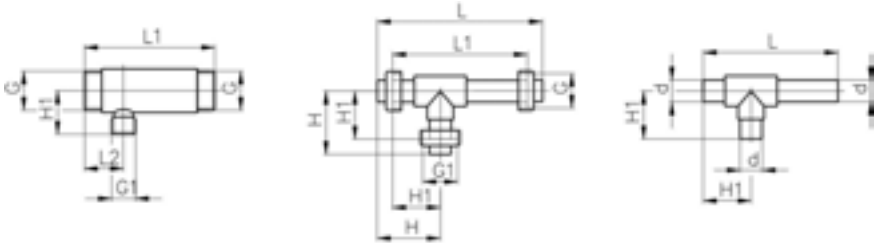
| d [mm] | G [inch] | PTFE Code | kg | D [mm] | H1 [mm] | H2 [mm] |
|---|---|---|---|---|---|---|
| 25 | ¼ | **199 041 010** | 0.170 | 72 | 71 | 15 |
| 32 | ½ | **199 041 011** | 0.320 | 100 | 90 | 22 |

# SYGEF® standard metric

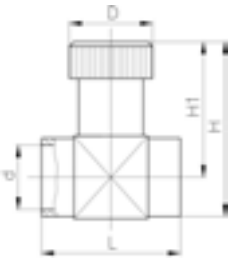
## SYGEF® standard
## Water jet suction pump type P 20

- DN 10-20: BSP parallel female thread
- DN 25-50: Fusion socket metric
- DN 65-80: Fusion spigot metric

| d [mm] | DN [mm] | PN | FPM Code | kg | G [inch] | G1 [inch] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 138** | 0.160 | R 3/4 | R 3/4 | | 110 | 40 | | 35 |
| 20 | 15 | 10 | **199 041 139** | 0.300 | R 1 | R 3/4 | | 110 | 40 | | 35 |
| 25 | 20 | 10 | **199 041 140** | 0.480 | R 1 1/4 | R 3/4 | | 145 | 45 | | 45 |
| 32 | 25 | 10 | **199 041 141** | 0.690 | R 1 1/2 | R 1 1/2 | 245 | 195 | | 96 | 71 |
| 40 | 32 | 10 | **199 041 142** | 1.100 | R 2 | R 2 | 297 | 239 | | 116 | 87 |
| 50 | 40 | 10 | **199 041 143** | 1.880 | R 2 1/4 | R 2 1/4 | 369 | 301 | | 139 | 105 |
| 63 | 50 | 10 | **199 041 144** | 3.340 | R 2 3/4 | R 2 3/4 | 433 | 351 | | 169 | 128 |
| 75 | 65 | 10 | **199 041 145** | 3.340 | - | - | 388 | | | | 115 |
| 90 | 80 | 10 | **199 041 146** | 5.500 | - | - | 465 | | | | 149 |






## SYGEF® standard
## Throttle valve type V 251
## With fusion sockets metric

| d [mm] | DN [mm] | PN | FPM Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|
| 16 | 10 | 10 | **199 041 231** | 0.150 | 29 | 47 | 57 | 45 |
| 20 | 15 | 10 | **199 041 232** | 0.124 | 35 | 55 | 66 | 51 |
| 25 | 20 | 10 | **199 041 233** | 0.100 | 40 | 66 | 80 | 63 |
| 32 | 25 | 10 | **199 041 234** | 0.135 | 47 | 80 | 96 | 75 |
| 40 | 32 | 10 | **199 041 235** | - | 56 | 100 | 111 | 86 |
| 50 | 40 | 10 | **199 041 236** | 0.250 | 70 | 120 | 133 | 101 |
| 63 | 50 | 10 | **199 041 237** | 1.240 | 88 | 146 | 158 | 118 |

# SYGEF® PLUS metric


| | | Page |
|---|---|---|
| | Diaphragm valves pneumatic | 544 |

# Diaphragm valves pneumatic

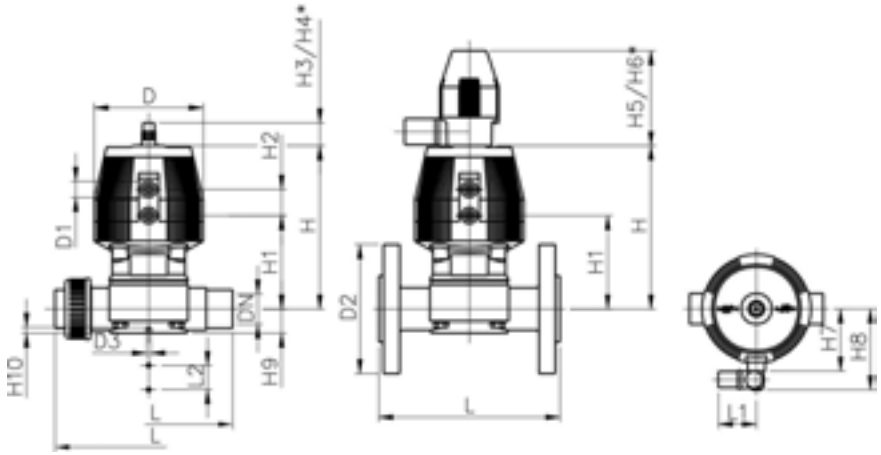
## SYGEF® PLUS
## Diaphragm valve type DIASTAR 025
## Function FC (Fail safe to close)
## With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 971** | 0.839 |
| 25 | 20 | 10 | 120 | **199 025 972** | 0.936 |
| 32 | 25 | 10 | 238 | **199 025 973** | 1.705 |
| 40 | 32 | 10 | 341 | **199 025 974** | 2.904 |
| 50 | 40 | 10 | 460 | **199 025 975** | 4.665 |
| 63 | 50 | 10 | 685 | **199 025 976** | 5.353 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



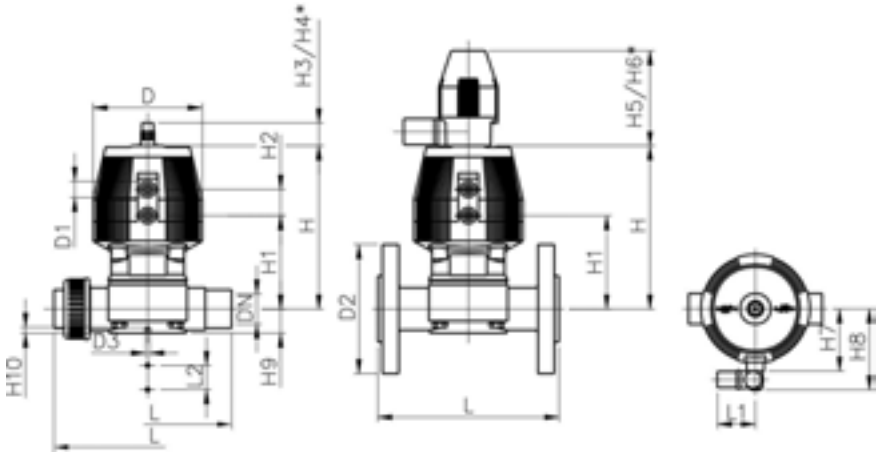
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# Unions with fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 401** | 0.839 |
| 25 | 20 | 10 | 120 | **199 027 402** | 0.936 |
| 32 | 25 | 10 | 238 | **199 027 403** | 1.705 |
| 40 | 32 | 10 | 341 | **199 027 404** | 2.370 |
| 50 | 40 | 10 | 460 | **199 027 405** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 406** | 5.353 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 196 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 220 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 234 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 258 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 284 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 320 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# With backing flanges PP-V metric

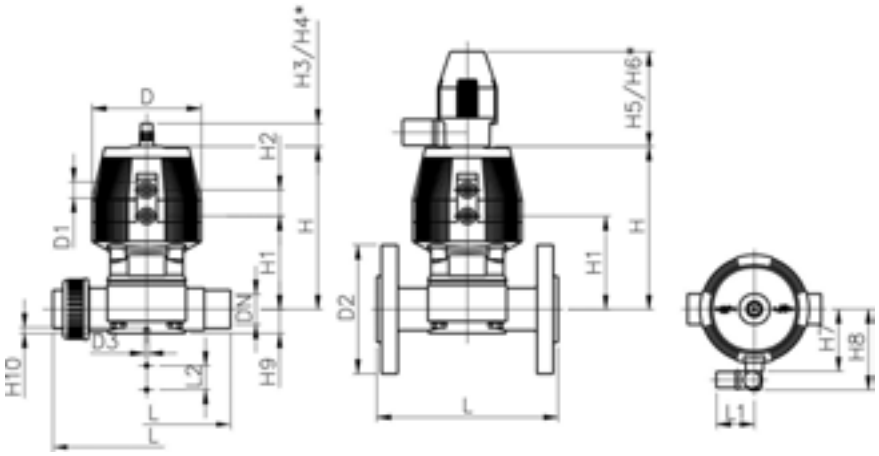
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 441** | 0.274 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 442** | 0.936 |
| 32 | 25 | 1 | 10 | 238 | **199 025 443** | 1.705 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 444** | 2.904 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 445** | 4.665 |
| 63 | 50 | 2 | 10 | 685 | **199 025 446** | 5.353 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 95 | 130 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 6 | 105 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 120 | ⅛ | 6 | 115 | 160 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 |
| 40 | 150 | ¼ | 8 | 140 | 180 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 |
| 50 | 180 | ¼ | 8 | 150 | 200 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 |
| 63 | 180 | ¼ | 8 | 165 | 230 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 56 | 86 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 68 | 100 | 21 | 12 | 12 |
| 40 | 85 | 117 | 26 | 15 | 14 |
| 50 | 101 | 133 | 33 | 15 | 18 |
| 63 | 101 | 133 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# With fixed flanges PVDF metric

**Model:**

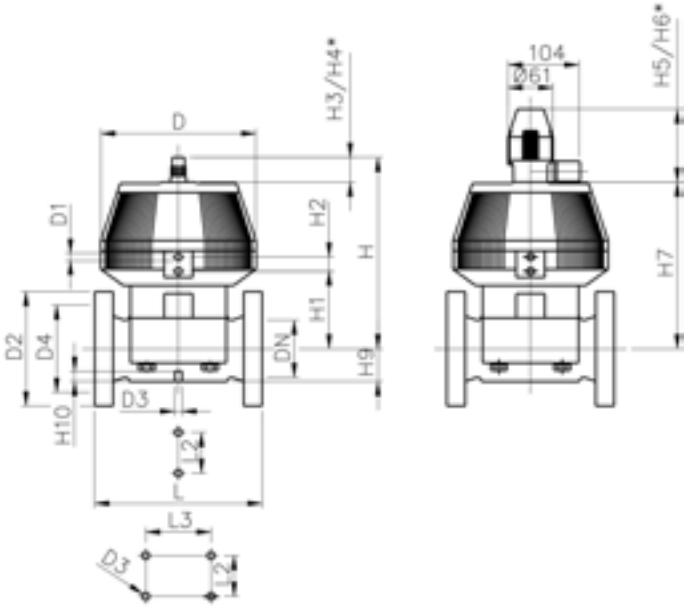
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

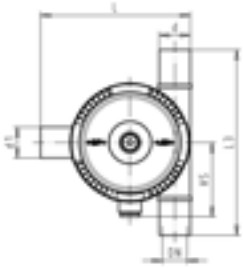
* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

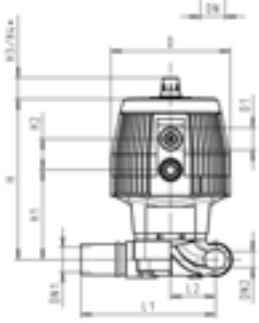
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 447** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 448** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 449** | 24.700 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 8 | 185 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 12 | 200 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 12 | 225 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |





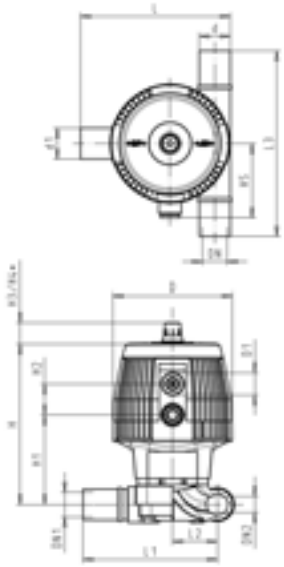


# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# ZERO STATIC with butt fusion spigots ISO/DIN

- With position indicator / Working pressure: both sides
- With position indicator
- DN2: for coordination of accessoires

| d [mm] | d1 [mm] | DN [mm] | DN1 [mm] | DN2 [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 15 | 15 | 10 | 47 | **199 029 341** | 1.564 |
| 25 | 20 | 20 | 15 | 20 | 10 | 69 | **199 029 342** | 1.097 |
| 25 | 25 | 20 | 20 | 20 | 10 | 91 | **199 029 343** | 1.096 |
| 32 | 20 | 25 | 15 | 25 | 10 | 86 | **199 029 344** | 2.701 |
| 32 | 25 | 25 | 20 | 25 | 10 | 126 | **199 029 345** | 2.698 |
| 32 | 32 | 25 | 25 | 25 | 10 | 156 | **199 029 346** | 2.696 |
| 40 | 20 | 32 | 15 | 25 | 10 | 84 | **199 029 347** | 2.772 |
| 40 | 25 | 32 | 20 | 25 | 10 | 124 | **199 029 348** | 2.773 |
| 40 | 32 | 32 | 25 | 25 | 10 | 161 | **199 029 349** | 2.773 |
| 40 | 40 | 32 | 32 | 32 | 10 | 250 | **199 029 350** | 3.093 |
| 50 | 20 | 40 | 15 | 25 | 10 | 82 | **199 029 351** | 2.813 |
| 50 | 25 | 40 | 20 | 25 | 10 | 124 | **199 029 352** | 2.812 |
| 50 | 32 | 40 | 25 | 25 | 10 | 159 | **199 029 353** | 2.808 |
| 50 | 40 | 40 | 32 | 40 | 10 | 312 | **199 029 354** | 5.107 |
| 50 | 50 | 40 | 40 | 40 | 10 | 356 | **199 029 355** | 5.104 |
| 63 | 20 | 50 | 15 | 25 | 10 | 81 | **199 029 356** | 2.877 |
| 63 | 25 | 50 | 20 | 25 | 10 | 115 | **199 029 357** | 2.873 |
| 63 | 32 | 50 | 25 | 25 | 10 | 156 | **199 029 358** | 2.872 |
| 63 | 40 | 50 | 32 | 50 | 10 | 383 | **199 029 359** | 6.073 |
| 63 | 50 | 50 | 40 | 50 | 10 | 487 | **199 029 360** | 6.071 |
| 63 | 63 | 50 | 50 | 50 | 10 | 544 | **199 029 361** | 6.070 |
| 75 | 40 | 65 | 32 | 32 | 10 | 256 | **199 029 362** | 3.368 |
| 75 | 50 | 65 | 40 | 50 | 10 | 497 | **199 029 363** | 6.223 |
| 75 | 63 | 65 | 50 | 50 | 10 | 546 | **199 029 364** | 6.231 |
| 90 | 20 | 80 | 15 | 25 | 10 | 88 | **199 029 365** | 3.042 |
| 90 | 25 | 80 | 20 | 25 | 10 | 133 | **199 029 366** | 2.655 |
| 90 | 32 | 80 | 25 | 25 | 10 | 162 | **199 029 367** | 3.033 |
| 90 | 50 | 80 | 40 | 50 | 10 | 504 | **199 029 368** | 6.347 |
| 90 | 63 | 80 | 50 | 50 | 10 | 530 | **199 029 369** | 6.347 |
| 110 | 20 | 100 | 15 | 25 | 10 | 89 | **199 029 370** | 3.228 |
| 110 | 25 | 100 | 20 | 25 | 10 | 123 | **199 029 371** | 3.226 |
| 110 | 32 | 100 | 25 | 25 | 10 | 159 | **199 029 372** | 3.223 |
| 110 | 50 | 100 | 40 | 50 | 10 | 503 | **199 029 373** | 6.639 |
| 110 | 63 | 100 | 50 | 50 | 10 | 543 | **199 029 374** | 6.624 |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 106 | 96 | 30 | 140 | 128 | 69 | 25 | 23 | 44 | 56 | 96 | ⅛ | 8 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 174 | 153 | 56 | 190 | 201 | 106 | 36 | 36 | 64 | 85 | 150 | ⅛ | 14 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 195 | 169 | 66 | 200 | 233 | 119 | 37 | 36 | 64 | 101 | 180 | ¼ | 18 |
| 50 | 195 | 169 | 66 | 200 | 233 | 119 | 37 | 36 | 64 | 101 | 180 | ¼ | 18 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 223 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 63 | 225 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |



| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 223 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 75 | 203 | 166 | 78 | 190 | 201 | 106 | 36 | 36 | 64 | 85 | 150 | ⅛ | 14 | |
| 75 | 236 | 198 | 86 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 75 | 236 | 198 | 86 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |

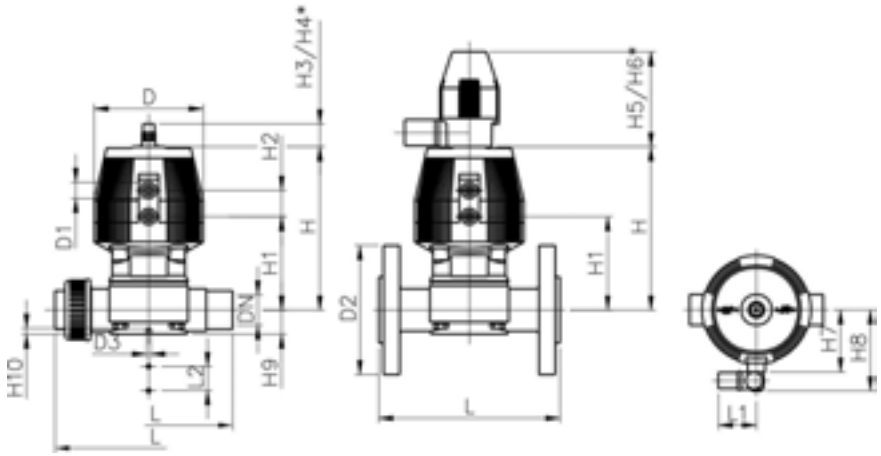
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# With butt fusion spigots IR metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code |
|---|---|---|---|---|
| 20 | 15 | 6 | 72 | **199 027 731** |
| 25 | 20 | 6 | 120 | **199 027 732** |
| 32 | 25 | 6 | 238 | **199 027 733** |
| 40 | 32 | 10 | 341 | **199 027 734** |
| 50 | 40 | 10 | 460 | **199 027 735** |
| 63 | 50 | 10 | 685 | **199 027 736** |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 124 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 154 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 174 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 194 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 224 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |



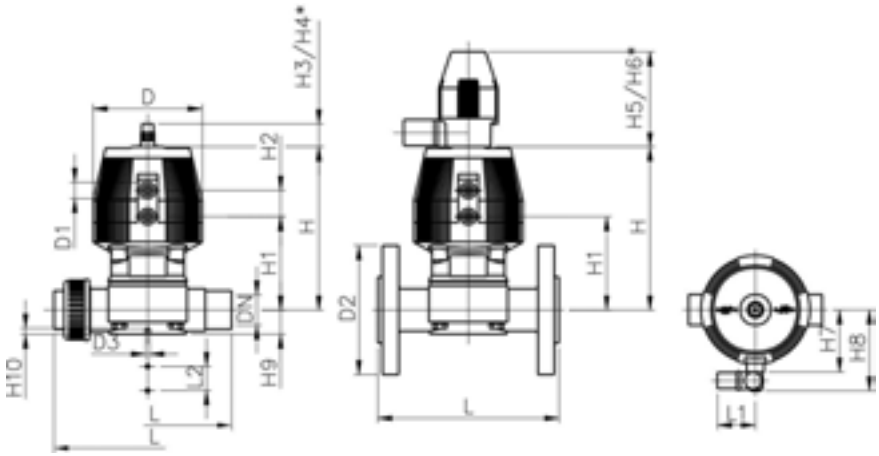
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# Unions with fusion spigots metric HTR

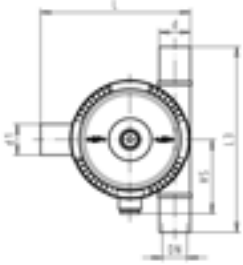
- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

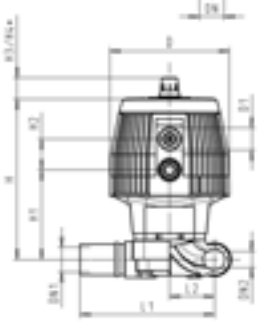
| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 771** | |
| 25 | 20 | 10 | 120 | **199 027 772** | 0.936 |
| 32 | 25 | 10 | 238 | **199 027 773** | |
| 40 | 32 | 10 | 341 | **199 027 774** | |
| 50 | 40 | 10 | 460 | **199 027 775** | |
| 63 | 50 | 10 | 685 | **199 027 776** | |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 96 | ⅛ | 6 | 225 | 60 | 25 | 125 | 69 | 25 | 23 | 44 | 100 | 155 | 56 |
| 25 | 96 | ⅛ | 6 | 242 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 120 | ⅛ | 6 | 254 | 60 | 25 | 163 | 93 | 26 | 36 | 64 | 100 | 155 | 68 |
| 40 | 150 | ¼ | 8 | 308 | 60 | 45 | 196 | 106 | 36 | 36 | 64 | 100 | 160 | 85 |
| 50 | 180 | ¼ | 8 | 330 | 60 | 45 | 227 | 119 | 37 | 36 | 64 | 100 | 170 | 101 |
| 63 | 180 | ¼ | 8 | 373 | 60 | 45 | 241 | 133 | 37 | 36 | 64 | 100 | 170 | 101 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 86 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 100 | 21 | 12 | 12 |
| 40 | 117 | 26 | 15 | 14 |
| 50 | 133 | 33 | 15 | 18 |
| 63 | 133 | 39 | 15 | 22 |





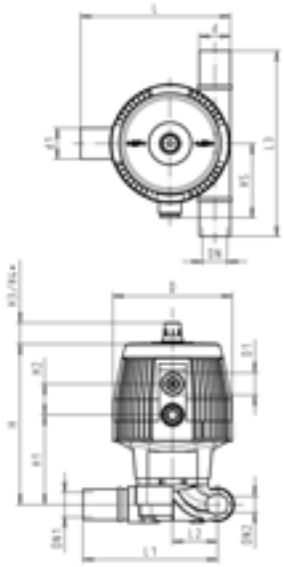


# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FC (Fail safe to close)
# ZERO STATIC with butt fusion spigots metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | d1 [mm] | DN [mm] | DN1 [mm] | DN2 [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 15 | 15 | 10 | 47 | **199 027 811** | |
| 25 | 20 | 20 | 15 | 20 | 10 | 69 | **199 027 812** | |
| 25 | 25 | 20 | 20 | 20 | 10 | 91 | **199 027 813** | 0.900 |
| 32 | 20 | 25 | 15 | 25 | 10 | 86 | **199 027 814** | |
| 32 | 25 | 25 | 20 | 25 | 10 | 126 | **199 027 815** | |
| 32 | 32 | 25 | 25 | 25 | 10 | 156 | **199 027 816** | |
| 40 | 20 | 32 | 15 | 25 | 10 | 84 | **199 027 817** | |
| 40 | 25 | 32 | 20 | 25 | 10 | 124 | **199 027 818** | |
| 40 | 32 | 32 | 25 | 25 | 10 | 161 | **199 027 819** | |
| 40 | 40 | 32 | 32 | 32 | 10 | 250 | **199 027 820** | |
| 50 | 20 | 40 | 15 | 25 | 10 | 82 | **199 027 821** | |
| 50 | 25 | 40 | 20 | 25 | 10 | 124 | **199 027 822** | |
| 50 | 32 | 40 | 25 | 25 | 10 | 159 | **199 027 823** | 1.500 |
| 50 | 40 | 40 | 32 | 40 | 10 | 312 | **199 027 824** | |
| 50 | 50 | 40 | 40 | 40 | 10 | 356 | **199 027 825** | |
| 63 | 20 | 50 | 15 | 25 | 10 | 81 | **199 027 826** | |
| 63 | 25 | 50 | 20 | 25 | 10 | 115 | **199 027 827** | |
| 63 | 32 | 50 | 25 | 25 | 10 | 156 | **199 027 828** | |
| 63 | 40 | 50 | 32 | 50 | 10 | 383 | **199 027 829** | |
| 63 | 50 | 50 | 40 | 50 | 10 | 487 | **199 027 830** | |
| 63 | 63 | 50 | 50 | 50 | 10 | 544 | **199 027 831** | |
| 75 | 40 | 65 | 32 | 32 | 10 | 256 | **199 027 832** | |
| 75 | 50 | 65 | 40 | 50 | 10 | 497 | **199 027 833** | |
| 75 | 63 | 65 | 50 | 50 | 10 | 546 | **199 027 834** | |
| 90 | 20 | 80 | 15 | 25 | 10 | 88 | **199 027 835** | |
| 90 | 25 | 80 | 20 | 25 | 10 | 133 | **199 027 836** | |
| 90 | 32 | 80 | 25 | 25 | 10 | 162 | **199 027 837** | |
| 90 | 50 | 80 | 40 | 50 | 10 | 504 | **199 027 838** | |
| 90 | 63 | 80 | 50 | 50 | 10 | 530 | **199 027 839** | |
| 110 | 20 | 100 | 15 | 25 | 10 | 89 | **199 027 840** | |
| 110 | 25 | 100 | 20 | 25 | 10 | 123 | **199 027 841** | |
| 110 | 32 | 100 | 25 | 25 | 10 | 159 | **199 027 842** | |
| 110 | 50 | 100 | 40 | 50 | 10 | 503 | **199 027 843** | |
| 110 | 63 | 100 | 50 | 50 | 10 | 543 | **199 027 847** | |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 106 | 96 | 30 | 140 | 128 | 69 | 25 | 23 | 44 | 56 | 96 | ⅛ | 8 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 40 | 174 | 153 | 56 | 190 | 201 | 106 | 36 | 36 | 64 | 85 | 150 | ⅛ | 14 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 50 | 195 | 169 | 66 | 200 | 233 | 119 | 37 | 36 | 64 | 101 | 180 | ¼ | 18 |
| 50 | 195 | 169 | 66 | 200 | 233 | 119 | 37 | 36 | 64 | 101 | 180 | ¼ | 18 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 |
| 63 | 223 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 63 | 225 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 63 | 223 | 192 | 80 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 |
| 75 | 203 | 166 | 78 | 190 | 201 | 106 | 36 | 36 | 64 | 85 | 150 | ⅛ | 14 |



| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 236 | 198 | 86 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 75 | 236 | 198 | 86 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 90 | 252 | 207 | 95 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 166 | 93 | 26 | 36 | 64 | 68 | 120 | ⅛ | 12 | |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |
| 110 | 274 | 219 | 107 | 220 | 247 | 133 | 37 | 36 | 64 | 101 | 180 | ¼ | 22 | |

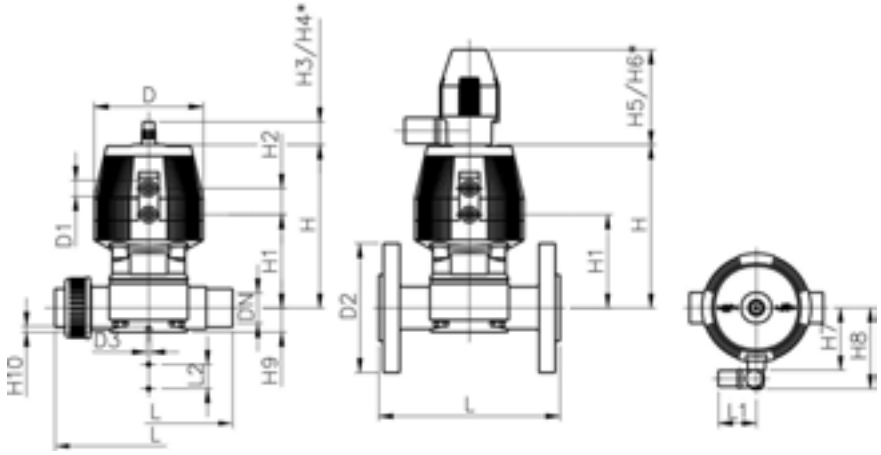
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 977** | 0.454 |
| 25 | 20 | 10 | 120 | **199 025 978** | 0.740 |
| 32 | 25 | 10 | 238 | **199 025 979** | 1.160 |
| 40 | 32 | 10 | 341 | **199 025 980** | 1.390 |
| 50 | 40 | 10 | 460 | **199 025 981** | 2.510 |
| 63 | 50 | 10 | 685 | **199 025 982** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



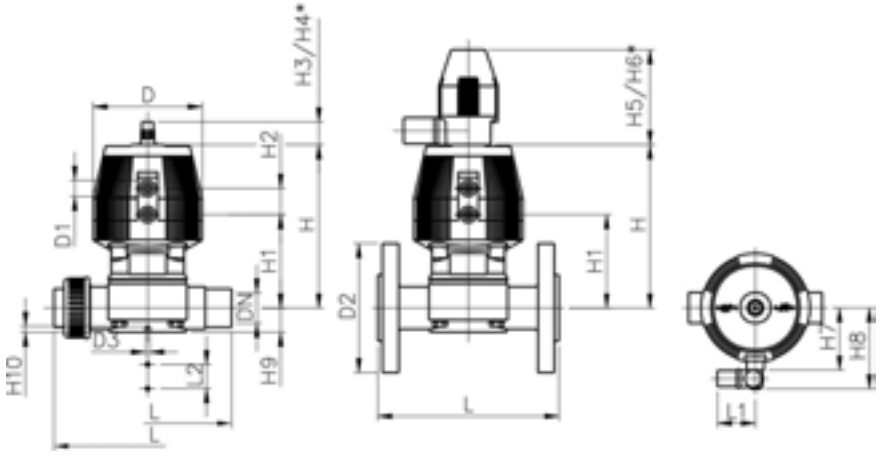
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# Unions with fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 411** | 0.839 |
| 25 | 20 | 10 | 120 | **199 027 412** | 0.936 |
| 32 | 25 | 10 | 238 | **199 027 413** | 1.705 |
| 40 | 32 | 10 | 341 | **199 027 414** | 2.370 |
| 50 | 40 | 10 | 460 | **199 027 415** | 2.510 |
| 63 | 50 | 10 | 685 | **199 027 416** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 225 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 242 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 254 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 308 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 330 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 373 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# With backing flanges PP-V metric

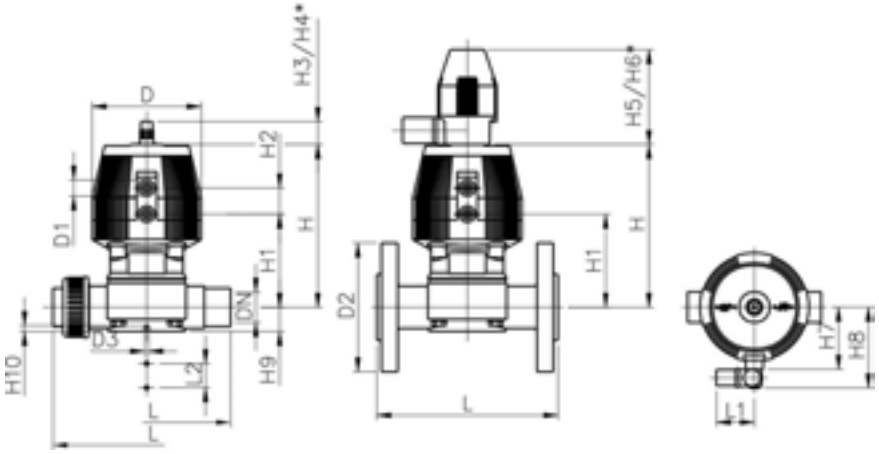
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 451** | 0.824 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 452** | 1.090 |
| 32 | 25 | 1 | 10 | 238 | **199 025 453** | 1.610 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 454** | 1.950 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 455** | 3.010 |
| 63 | 50 | 2 | 10 | 685 | **199 025 456** | 5.510 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 95 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 6 | 105 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 6 | 115 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 8 | 140 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 8 | 150 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 8 | 165 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# With fixed flanges PVDF metric

**Model:**

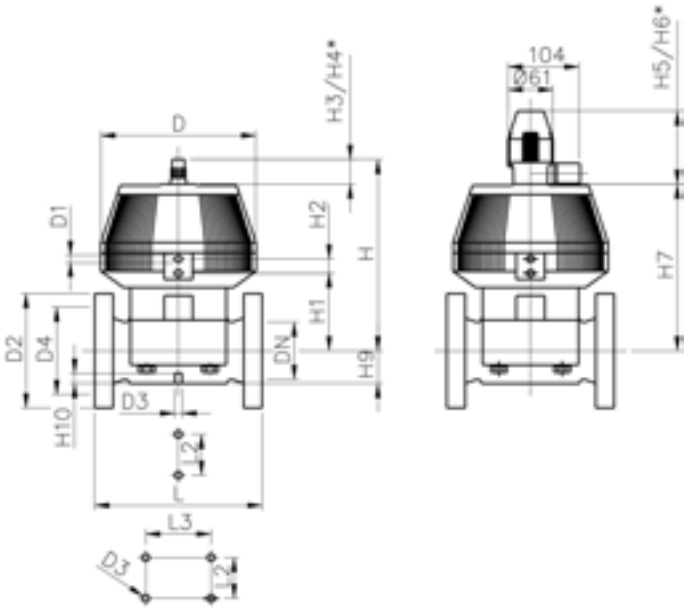
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 457** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 458** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 459** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 460** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 8 | 185 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 12 | 200 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 12 | 225 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 12 | 285 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 129 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |



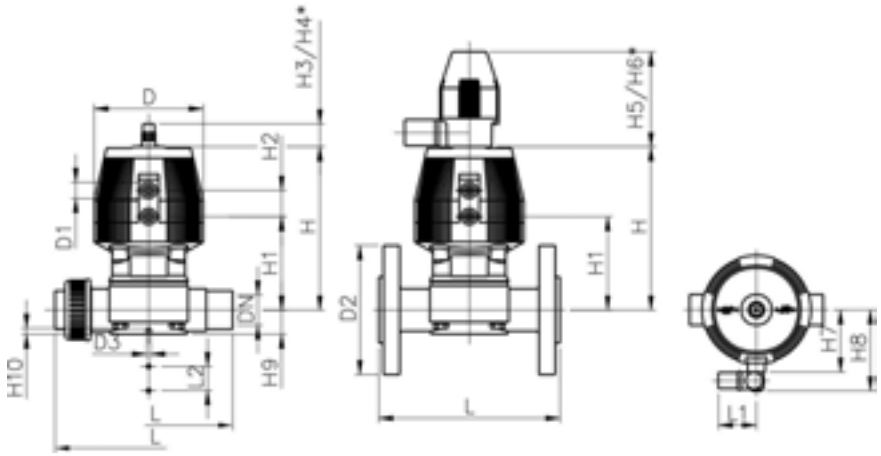
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# With butt fusion spigots IR metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code |
|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 741** |
| 25 | 20 | 10 | 120 | **199 027 742** |
| 32 | 25 | 10 | 238 | **199 027 743** |
| 40 | 32 | 10 | 341 | **199 027 744** |
| 50 | 40 | 10 | 460 | **199 027 745** |
| 63 | 50 | 10 | 685 | **199 027 746** |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



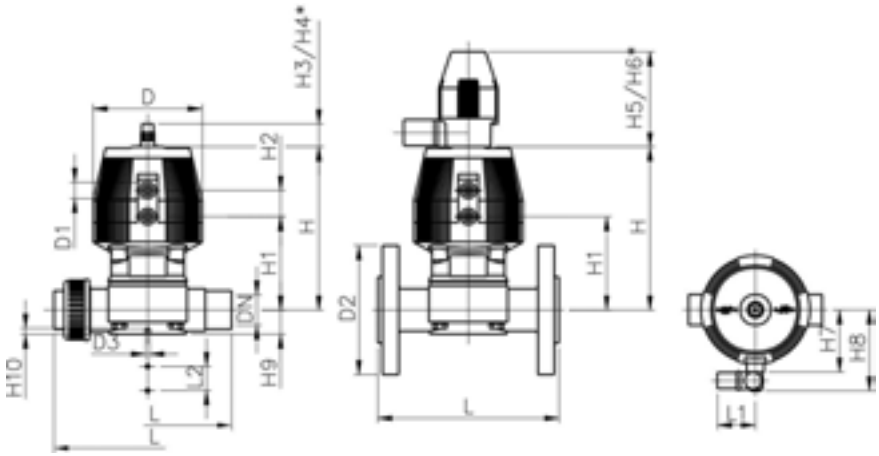
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function FO (Fail safe to open)
# Unions with fusion spigots metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 781** | |
| 25 | 20 | 10 | 120 | **199 027 782** | 0.936 |
| 32 | 25 | 10 | 238 | **199 027 783** | |
| 40 | 32 | 10 | 341 | **199 027 784** | |
| 50 | 40 | 10 | 460 | **199 027 785** | |
| 63 | 50 | 10 | 685 | **199 027 786** | |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 225 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 242 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 254 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 308 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 330 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 373 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



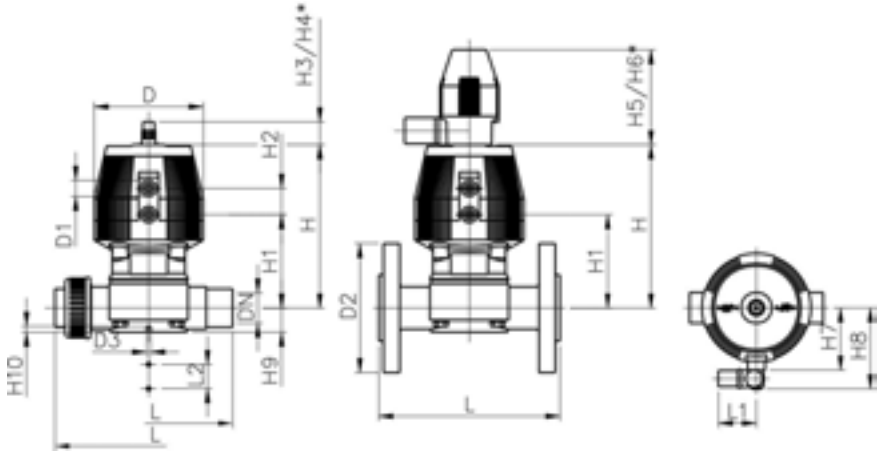
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# With butt fusion spigots IR metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 025 983** | 0.454 |
| 25 | 20 | 10 | 120 | **199 025 984** | 0.740 |
| 32 | 25 | 10 | 238 | **199 025 985** | 1.160 |
| 40 | 32 | 10 | 341 | **199 025 986** | 1.390 |
| 50 | 40 | 10 | 460 | **199 025 987** | 2.510 |
| 63 | 50 | 10 | 685 | **199 025 988** | 5.430 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



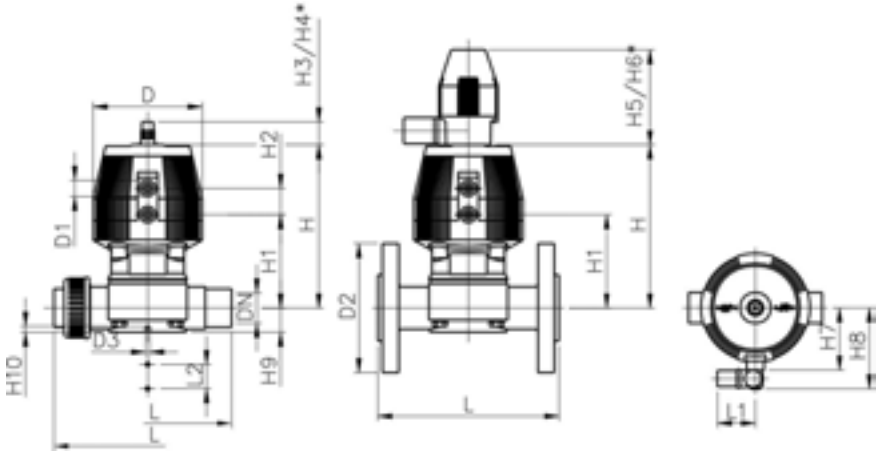
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# Unions with fusion spigots metric

- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 421** | |
| 25 | 20 | 10 | 120 | **199 027 422** | 0.740 |
| 32 | 25 | 10 | 238 | **199 027 423** | 1.505 |
| 40 | 32 | 10 | 341 | **199 027 424** | |
| 50 | 40 | 10 | 460 | **199 027 425** | 4.165 |
| 63 | 50 | 10 | 685 | **199 027 426** | |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 225 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 242 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 254 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 308 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 330 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 373 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# With backing flanges PP-V metric

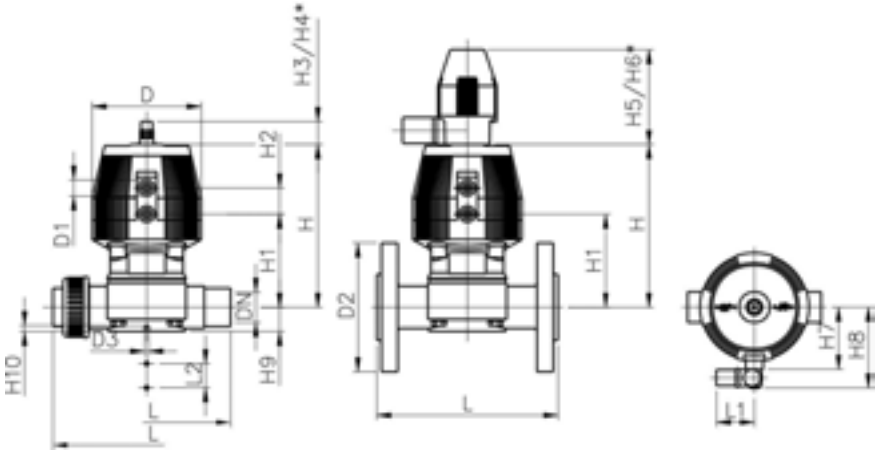
**Model:**

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: both sides

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 10 | 72 | **199 025 461** | 0.824 |
| 25 | 20 | ¾ | 10 | 120 | **199 025 462** | 1.090 |
| 32 | 25 | 1 | 10 | 238 | **199 025 463** | 1.610 |
| 40 | 32 | 1 ¼ | 10 | 341 | **199 025 464** | 1.950 |
| 50 | 40 | 1 ½ | 10 | 460 | **199 025 465** | 3.010 |
| 63 | 50 | 2 | 10 | 685 | **199 025 466** | 5.510 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 95 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 6 | 105 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 6 | 115 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 8 | 140 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 8 | 150 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 8 | 165 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# With fixed flanges PVDF metric

**Model:**

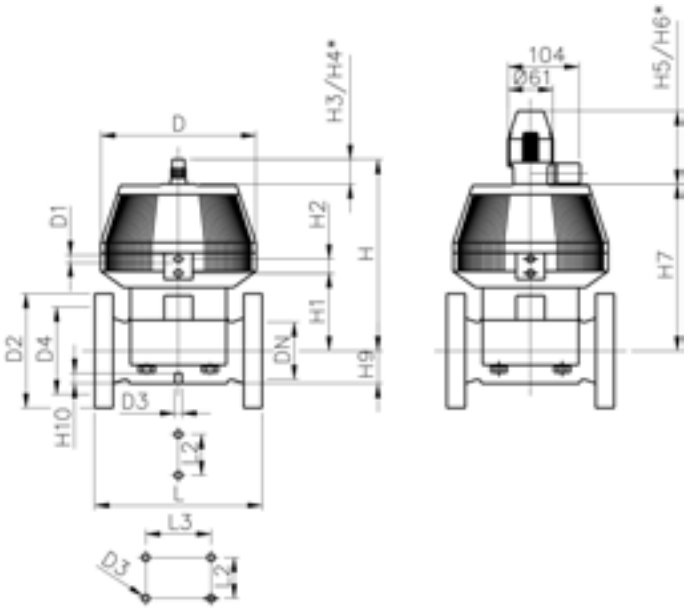
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

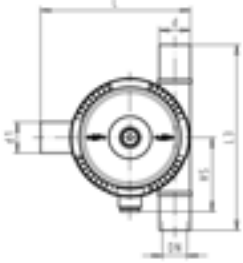
* with backing flanges PP-V
** with fixed flanges PVDF metric and Inch ANSI

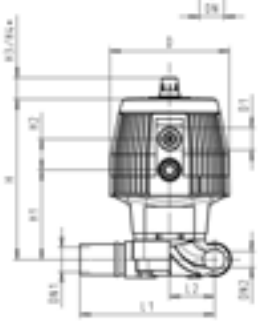
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| *75 | 65 | 2 ½ | 10 | 992 | **199 025 467** | 13.600 |
| **90 | 80 | 3 | 10 | 1700 | **199 025 468** | 17.400 |
| 110 | 100 | 4 | 8 | 2700 | **199 025 469** | 24.700 |
| 160 | 150 | 6 | 6 | 6033 | **199 025 470** | 35.000 |

| d [mm] | D [mm] | D1_G [inch] | D2 [mm] | D3[M] [mm] | D4 [mm] | L [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *75 | 280 | ¼ | 185 | 8 | 145 | 290 | 70 | | 344 | 148 | 24 | 46 |
| **90 | 280 | ¼ | 200 | 12 | 160 | 310 | 120 | | 348 | 150 | 24 | 46 |
| 110 | 335 | ¼ | 225 | 12 | 180 | 350 | 120 | | 395 | 176 | 24 | 46 |
| 160 | 335 | ¼ | 285 | 12 | 240 | 480 | 100 | 200 | 455 | 237 | 24 | 46 |

| d [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H9 [mm] | H10 [mm] |
|---|---|---|---|---|---|---|
| *75 | 100 | 125 | 195 | 298 | 46 | 15 |
| **90 | 100 | 129 | 195 | 302 | 57 | 15 |
| 110 | 100 | 129 | 195 | 349 | 69 | 20 |
| 160 | 100 | 129 | 195 | 409 | 108 | 20 |





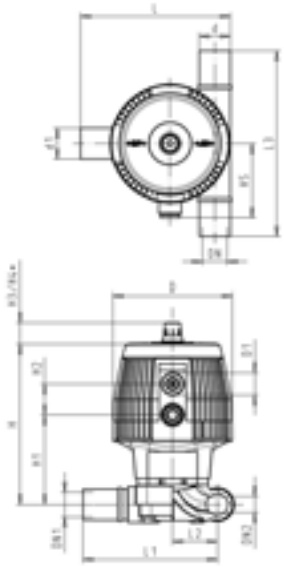


# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# ZERO STATIC with butt fusion spigots metric

- DN2: for coordination of accessoires

| d [mm] | d1 [mm] | DN [mm] | DN1 [mm] | DN2 [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|---|---|
| 20 | 20 | 15 | 15 | 15 | 10 | 47 | **199 028 067** | |
| 25 | 20 | 20 | 15 | 20 | 10 | 69 | **199 028 068** | |
| 25 | 25 | 20 | 20 | 20 | 10 | 91 | **199 028 069** | |
| 32 | 20 | 25 | 15 | 25 | 10 | 86 | **199 028 070** | |
| 32 | 25 | 25 | 20 | 25 | 10 | 126 | **199 028 077** | |
| 32 | 32 | 25 | 25 | 25 | 10 | 156 | **199 028 078** | |
| 40 | 20 | 32 | 15 | 25 | 10 | 84 | **199 028 079** | 4.900 |
| 40 | 25 | 32 | 20 | 25 | 10 | 124 | **199 028 177** | |
| 40 | 32 | 32 | 25 | 25 | 10 | 161 | **199 028 178** | |
| 40 | 40 | 32 | 32 | 32 | 10 | 250 | **199 028 179** | 0.900 |
| 50 | 20 | 40 | 15 | 25 | 10 | 82 | **199 028 080** | |
| 50 | 25 | 40 | 20 | 25 | 10 | 124 | **199 028 087** | |
| 50 | 32 | 40 | 25 | 25 | 10 | 159 | **199 028 088** | |
| 50 | 40 | 40 | 32 | 40 | 10 | 312 | **199 028 157** | 3.350 |
| 50 | 50 | 40 | 40 | 40 | 10 | 356 | **199 028 158** | |
| 63 | 20 | 50 | 15 | 25 | 10 | 81 | **199 028 089** | |
| 63 | 25 | 50 | 20 | 25 | 10 | 115 | **199 028 090** | 4.900 |
| 63 | 32 | 50 | 25 | 25 | 10 | 156 | **199 028 097** | |
| 63 | 40 | 50 | 32 | 50 | 10 | 383 | **199 028 138** | 4.900 |
| 63 | 50 | 50 | 40 | 50 | 10 | 487 | **199 028 137** | |
| 63 | 63 | 50 | 50 | 50 | 10 | 544 | **199 028 139** | |
| 75 | 40 | 65 | 32 | 32 | 10 | 256 | **199 028 098** | |
| 75 | 50 | 65 | 40 | 50 | 10 | 497 | **199 028 159** | |
| 75 | 63 | 65 | 50 | 50 | 10 | 546 | **199 028 160** | |
| 90 | 20 | 80 | 15 | 25 | 10 | 88 | **199 028 099** | |
| 90 | 25 | 80 | 20 | 25 | 10 | 133 | **199 028 100** | |
| 90 | 32 | 80 | 25 | 25 | 10 | 162 | **199 028 107** | |
| 90 | 50 | 80 | 40 | 50 | 10 | 504 | **199 028 108** | |
| 90 | 63 | 80 | 50 | 50 | 10 | 530 | **199 028 109** | |
| 110 | 20 | 100 | 15 | 25 | 10 | 89 | **199 028 110** | |
| 110 | 25 | 100 | 20 | 25 | 10 | 123 | **199 028 117** | |
| 110 | 32 | 100 | 25 | 25 | 10 | 159 | **199 028 118** | |
| 110 | 50 | 100 | 40 | 50 | 10 | 503 | **199 028 119** | |
| 110 | 63 | 100 | 50 | 50 | 10 | 543 | **199 028 120** | |

| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 106 | 96 | 30 | 140 | 99 | 59 | 24 | 23 | 44 | 44 | 68 | ⅛ | 8 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 25 | 121 | 108 | 36 | 150 | 130 | 71 | 25 | 23 | 44 | 56 | 96 | ⅛ | 10 |
| 32 | 137 | 120 | 43 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 32 | 137 | 120 | 43 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 40 | 149 | 128 | 51 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 40 | 174 | 153 | 56 | 190 | 170 | 97 | 26 | 36 | 64 | 68 | 120 | ⅛ | 14 |
| 50 | 159 | 134 | 57 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 50 | 159 | 134 | 57 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 50 | 195 | 169 | 66 | 200 | 203 | 108 | 36 | 36 | 64 | 85 | 150 | ¼ | 18 |
| 50 | 195 | 169 | 66 | 200 | 203 | 108 | 36 | 36 | 64 | 85 | 150 | ¼ | 18 |
| 63 | 175 | 144 | 67 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 63 | 175 | 144 | 67 | 180 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 |
| 63 | 223 | 192 | 80 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 |
| 63 | 225 | 192 | 80 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 |
| 63 | 223 | 192 | 80 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 |
| 75 | 203 | 166 | 78 | 190 | 170 | 97 | 26 | 36 | 64 | 68 | 120 | ⅛ | 14 |



| d [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | D [mm] | D1 [inch] | Lift = Hx [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | 236 | 198 | 86 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |
| 75 | 236 | 198 | 86 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |
| 90 | 204 | 159 | 82 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 90 | 204 | 159 | 82 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 90 | 252 | 207 | 95 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |
| 90 | 252 | 207 | 95 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |
| 110 | 226 | 171 | 94 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 110 | 226 | 171 | 94 | 160 | 143 | 85 | 25 | 23 | 44 | 56 | 96 | ⅛ | 12 | |
| 110 | 274 | 219 | 107 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |
| 110 | 274 | 219 | 107 | 220 | 220 | 126 | 36 | 36 | 64 | 85 | 150 | ¼ | 22 | |

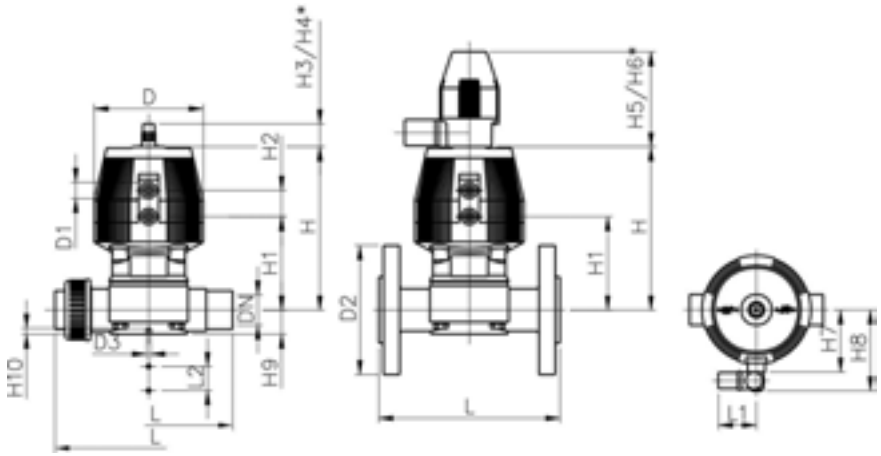
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# With butt fusion spigots IR metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code |
|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 751** |
| 25 | 20 | 10 | 120 | **199 027 752** |
| 32 | 25 | 10 | 238 | **199 027 753** |
| 40 | 32 | 10 | 341 | **199 027 754** |
| 50 | 40 | 10 | 460 | **199 027 755** |
| 63 | 50 | 10 | 685 | **199 027 756** |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



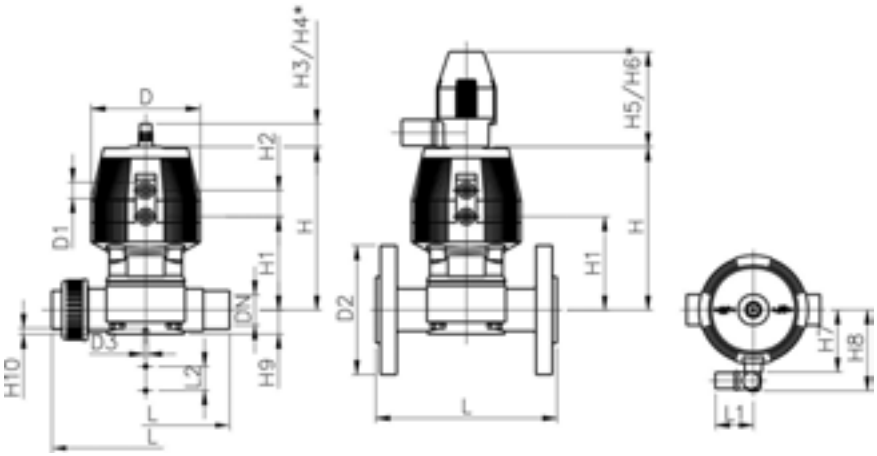
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 025
# Function DA (Double acting)
# Unions with fusion spigots metric HTR

- With position indicator / Working pressure: both sides for correct clamping and fusion jointing of flange adapters

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code |
|---|---|---|---|---|
| 20 | 15 | 10 | 72 | **199 027 791** |
| 25 | 20 | 10 | 120 | **199 027 792** |
| 32 | 25 | 10 | 238 | **199 027 793** |
| 40 | 32 | 10 | 341 | **199 027 794** |
| 50 | 40 | 10 | 460 | **199 027 795** |
| 63 | 50 | 10 | 685 | **199 027 796** |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 225 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 242 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 254 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 308 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 330 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 373 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



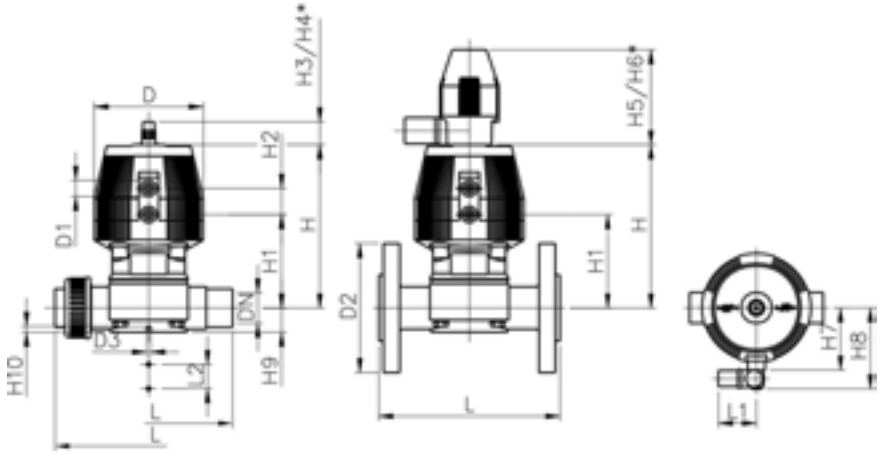
# SYGEF® PLUS
# Diaphragm valve type DIASTAR 028
# Function FC (Fail safe to close)
# With butt fusion spigots IR metric

- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | 5 | 72 | **199 028 971** | 0.520 |
| 25 | 20 | 7 | 120 | **199 028 972** | 0.950 |
| 32 | 25 | 7 | 238 | **199 028 973** | 1.370 |
| 40 | 32 | 7 | 341 | **199 028 974** | 1.810 |
| 50 | 40 | 7 | 460 | **199 028 975** | 3.350 |
| 63 | 50 | 7 | 685 | **199 028 976** | 6.270 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 124 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 | 44 |
| 25 | 96 | ⅛ | 6 | 144 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 | 56 |
| 32 | 96 | ⅛ | 6 | 154 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 | 56 |
| 40 | 120 | ⅛ | 8 | 174 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 | 68 |
| 50 | 150 | ¼ | 8 | 194 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 | 85 |
| 63 | 150 | ¼ | 8 | 224 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 | 85 |

| d [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|
| 20 | 76 | 14 | 12 | 8 |
| 25 | 88 | 18 | 12 | 10 |
| 32 | 88 | 21 | 12 | 12 |
| 40 | 100 | 26 | 15 | 14 |
| 50 | 117 | 33 | 15 | 18 |
| 63 | 117 | 39 | 15 | 22 |



# SYGEF® PLUS
# Diaphragm valve type DIASTAR 028
# Function FC (Fail safe to close)
# With backing flanges PP-V metric

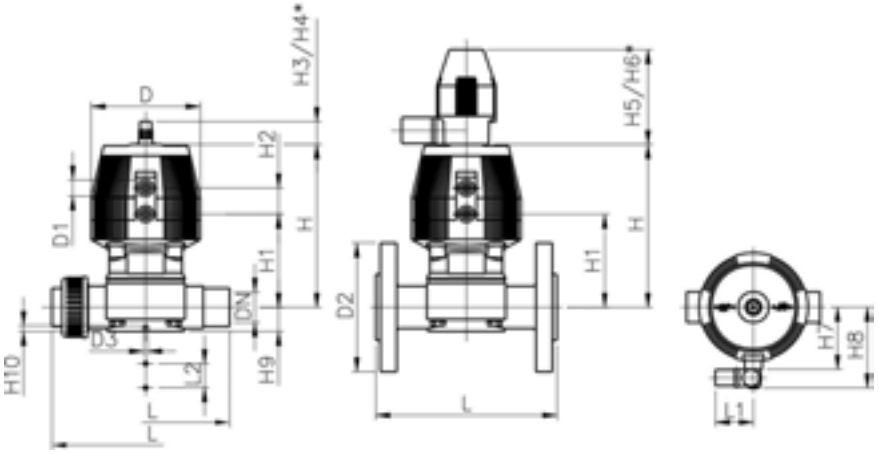
**Model:**

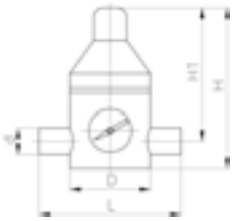
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 5 | 72 | **199 028 441** | 0.890 |
| 25 | 20 | ¾ | 7 | 120 | **199 028 442** | 1.300 |
| 32 | 25 | 1 | 7 | 238 | **199 028 443** | 1.820 |
| 40 | 32 | 1 ¼ | 7 | 341 | **199 028 444** | 2.370 |
| 50 | 40 | 1 ½ | 7 | 460 | **199 028 445** | 3.850 |
| 63 | 50 | 2 | 7 | 685 | **199 028 446** | 6.350 |

| d [mm] | D [mm] | D1_G [inch] | D3[M] [mm] | D2 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 68 | ⅛ | 6 | 95 | 130 | 60 | 25 | 98 | 59 | 24 | 23 | 44 | 100 | 155 |
| 25 | 96 | ⅛ | 6 | 105 | 150 | 60 | 25 | 127 | 71 | 25 | 23 | 44 | 100 | 155 |
| 32 | 96 | ⅛ | 6 | 115 | 160 | 60 | 25 | 141 | 85 | 25 | 23 | 44 | 100 | 155 |
| 40 | 120 | ⅛ | 8 | 140 | 180 | 60 | 45 | 167 | 97 | 26 | 36 | 64 | 100 | 160 |
| 50 | 150 | ¼ | 8 | 150 | 200 | 60 | 45 | 198 | 108 | 36 | 36 | 64 | 100 | 170 |
| 63 | 150 | ¼ | 8 | 165 | 230 | 60 | 45 | 216 | 126 | 36 | 36 | 64 | 100 | 170 |

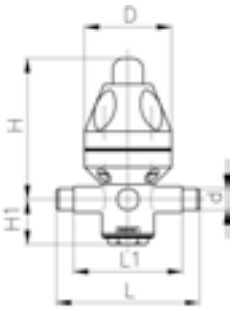
| d [mm] | H7 [mm] | H8 [mm] | H9 [mm] | H10 [mm] | Lift = Hx [mm] |
|---|---|---|---|---|---|
| 20 | 44 | 76 | 14 | 12 | 8 |
| 25 | 56 | 88 | 18 | 12 | 10 |
| 32 | 56 | 88 | 21 | 12 | 12 |
| 40 | 68 | 100 | 26 | 15 | 14 |
| 50 | 85 | 117 | 33 | 15 | 18 |
| 63 | 85 | 117 | 39 | 15 | 22 |





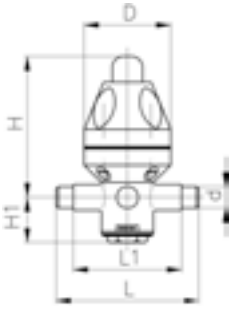

# SYGEF® PLUS
## Pressure reducing valve type V 82
## With fusion spigots BCF

| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 10 | **199 041 184** | 0.790 | 70 | 150 | 130 | 100 | |
| 25 | 20 | 0.5 - 10 | **199 041 185** | 1.619 | 100 | 190 | 180 | 134 | |
| 32 | 25 | 0.5 - 10 | **199 041 186** | 1.620 | 100 | 190 | 180 | 134 | |
| 40 | 32 | 0.5 - 10 | **199 041 187** | 5.320 | 130 | 240 | 230 | 175 | |
| 50 | 40 | 0.5 - 10 | **199 041 188** | 5.320 | 130 | 240 | 230 | 175 | |
| 63 | 50 | 0.5 - 10 | **199 041 189** | 9.330 | 150 | 260 | 285 | 210 | |




# SYGEF® PLUS
## Pressure reducing valve type V 782
## With fusion spigots BCF

| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 10 | **199 041 192** | 1.300 | 83 | 182 | 102 | 195 | 48 | |
| 25 | 20 | 0.5 - 10 | **199 041 193** | 1.300 | 112 | 190 | 110 | 210 | 65 | |
| 32 | 25 | 0.5 - 10 | **199 041 194** | 1.300 | 112 | 190 | 110 | 210 | 65 | |
| 40 | 32 | 0.5 - 10 | **199 041 195** | 4.840 | 165 | 262 | 162 | 260 | 95 | |
| 50 | 40 | 0.5 - 10 | **199 041 196** | 4.840 | 165 | 262 | 162 | 260 | 95 | |




# SYGEF® PLUS
# Pressure retaining valve type V 786
# With fusion spigots BCF

| d [mm] | DN [mm] | Pressure range [bar] | PTFE Code | kg | D [mm] | L [mm] | L1 [mm] | H [mm] | H1 [mm] | |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 15 | 0.5 - 10 | **199 041 198** | 0.620 | 83 | 172 | 102 | 145 | 38 | |
| 25 | 20 | 0.5 - 10 | **199 041 199** | 1.700 | 112 | 190 | 110 | 210 | 55 | |
| 32 | 25 | 0.5 - 10 | **199 041 200** | 1.700 | 112 | 190 | 110 | 210 | 55 | |
| 40 | 32 | 0.5 - 4 | **199 041 201** | 4.840 | 165 | 262 | 162 | 260 | 85 | |
| 50 | 40 | 0.5 - 4 | **199 041 202** | 4.840 | 165 | 262 | 162 | 260 | 85 | |

# PTFE


| | | Page |
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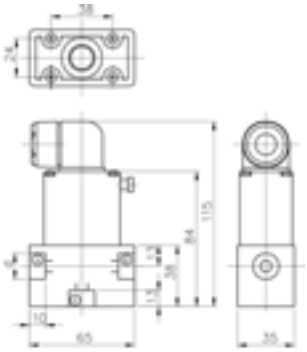
| | Solenoid valves | 574 |

# PTFE

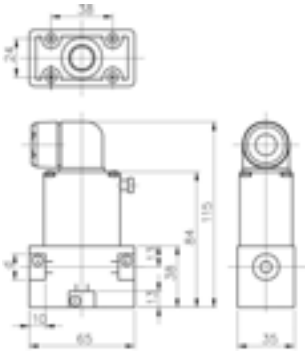
# Solenoid valves



## Solenoid valve type 157 in PTFE
## Nominal voltage 230V 50 Hz ±10%
## Function A straight passage valve
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 157 042** | **199 157 052** | 0.447 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 157 043** | **199 157 053** | 0.440 | |
| 8 | G3/8 | 0.0 - 1.0 | **199 157 044** | **-** | 0.320 | |

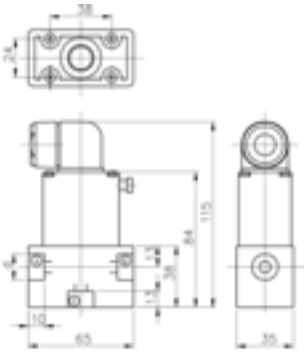


## Solenoid valve type 157 in PTFE
## Nominal voltage 24V DC *24V AC/DC
## Function A straight passage valve
## With threaded sockets parallel female thread Rp

- Solenoid valve 2/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ* Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 157 662** | **199 157 672** | 0.320 | |
| 6 | G3/8 | 0.0 - 2.0 | **199 157 663** | **199 157 673** | 0.450 | |
| *8 | G3/8 | 0.0 - 1.0 | **199 157 664** | **-** | 0.320 | |

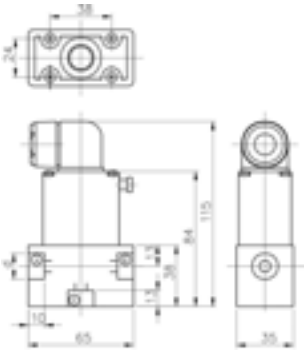
# PTFE



## Solenoid valve type 158 in PTFE
## Nominal voltage 230V 50 Hz ±10%
## Function C
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 082** | **199 158 092** | 0.320 | |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 083** | **199 158 093** | 0.320 | |



## Solenoid valve type 158 in PTFE
## Nominal voltage 230V 50 Hz ±10%
## Function D
## With threaded sockets parallel female thread Rp

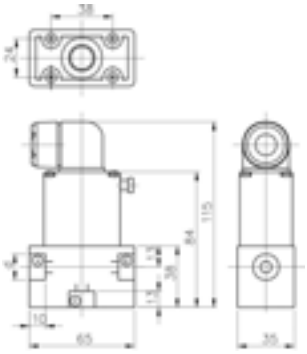
- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 097** | **199 158 107** | 0.320 | |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 098** | **199 158 108** | 0.320 | |

# PTFE

## Solenoid valve type 158 in PTFE
## Nominal voltage 230V 50 Hz ±10%
## Function E
## With threaded sockets parallel female thread Rp

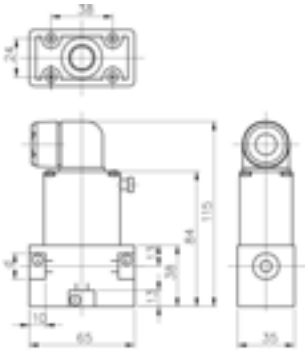
- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request



| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ Code | kg |
|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 112** | **199 158 122** | 0.320 |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 113** | **199 158 123** | 0.320 |

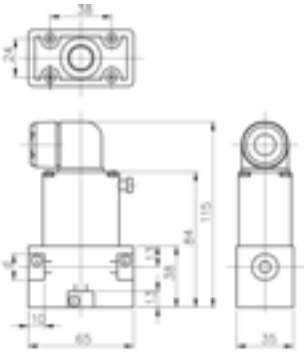
## Solenoid valve type 158 in PTFE
## Nominal voltage 230V 50 Hz ±10%
## Function F
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request



| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ Code | kg |
|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 158 127** | **199 158 137** | 0.320 |
| 6 | G3/8 | 0.0 - 2.0 | **199 158 128** | **199 158 138** | 0.320 |

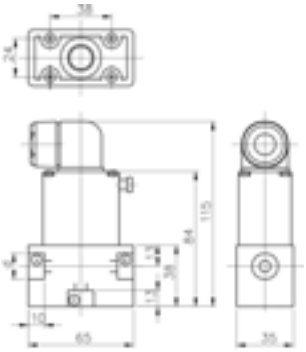
# PTFE



## Solenoid valve type 158 in PTFE
## Nominal voltage 24V DC *24V AC/DC
## Function E
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ* Code | kg | |
|---|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 2.0 | **199 158 732** | **199 158 742** | 0.320 | |
| 6 | G3/8 | 0.0 - 1.0 | **199 158 733** | **199 158 743** | | |



## Solenoid valve type 158 in PTFE
## Nominal voltage 24V DC *24V AC/DC
## Function F
## With threaded sockets parallel female thread Rp

- Solenoid valve 3/2 ways
- With manual override
- Electrical connection: cable plug
- Voltages: 24, 115, 230 V on request

| DN [mm] | Inch | PN [bar] | FPM Code | KALREZ* Code | |
|---|---|---|---|---|---|
| 4 | G3/8 | 0.0 - 4.0 | **199 158 747** | **199 158 757** | |
| 6 | G3/8 | 0.0 - 2.0 | **199 158 748** | **199 158 758** | |

# PTFE

# Metal - butterfly valves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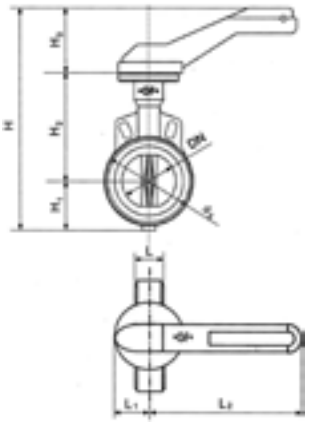
| | Metal - butterfly valves wafer metric/Inch/ANSI | 580 |
| | Metal - butterfly valves electric wafer<br>Metric/Inch/ANSI | 585 |
| | Metal - butterfly valves pneumatic wafer<br>Metric/Inch/ANSI | 588 |
| | Spare parts for metal butterfly valves | 593 |

# Metal - butterfly valves wafer metric/Inch/ANSI



## Metal - butterfly valve type 037M
## With hand lever

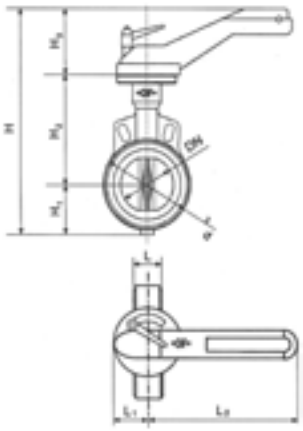
**Model:**

- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 000** | **199 037 013** | **199 037 200** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 001** | **199 037 014** | **199 037 201** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 002** | **199 037 015** | **199 037 202** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 003** | **199 037 016** | **199 037 203** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 004** | **199 037 017** | **199 037 204** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 005** | **199 037 018** | **199 037 205** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 006** | **199 037 019** | **199 037 206** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 007** | **199 037 020** | **199 037 207** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 008** | **199 037 021** | **199 037 208** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 213** | **199 037 400** | **199 037 413** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 214** | **199 037 401** | **199 037 414** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 215** | **199 037 402** | **199 037 415** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 216** | **199 037 403** | **199 037 416** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 217** | **199 037 404** | **199 037 417** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 218** | **199 037 405** | **199 037 418** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 219** | **199 037 406** | **199 037 419** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 220** | **199 037 407** | **199 037 420** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 221** | **199 037 408** | **199 037 421** |

| d [mm] | DN [mm] | d3 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 95 | 43 | 45 | 220 | 290 | 53 | 140 | 95 |
| 75 | 65 | 114 | 46 | 45 | 220 | 312 | 63 | 152 | 95 |
| 90 | 80 | 131 | 46 | 45 | 220 | 327 | 71 | 159 | 95 |
| 110 | 100 | 152 | 52 | 45 | 220 | 360 | 87 | 178 | 95 |
| 140 | 125 | 182 | 56 | 45 | 320 | 388 | 102 | 191 | 95 |
| 160 | 150 | 209 | 56 | 45 | 320 | 416 | 118 | 203 | 95 |
| 225 | 200 | 262 | 60 | 45 | 320 | 489 | 149 | 245 | 95 |
| 280 | 250 | 331 | 68 | 63 | 560 | 525 | 200 | 275 | 50 |
| 315 | 300 | 380 | 78 | 63 | 560 | 592 | 227 | 315 | 50 |



# Metal - butterfly valve type 037M
# Hand lever with fine adjustment

**Model:**

- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 180** | **199 037 187** | **199 037 380** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 181** | **199 037 188** | **199 037 381** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 182** | **199 037 189** | **199 037 382** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 183** | **199 037 190** | **199 037 383** | |
| 140 | 125 | 5 | 10 | 18750 | **199 037 184** | **199 037 191** | **199 037 384** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 185** | **199 037 192** | **199 037 385** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 186** | **199 037 193** | **199 037 386** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 387** | **199 037 580** | **199 037 587** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 388** | **199 037 581** | **199 037 588** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 389** | **199 037 582** | **199 037 589** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 390** | **199 037 583** | **199 037 590** | |
| 140 | 125 | 5 | 10 | 18750 | **199 037 391** | **199 037 584** | **199 037 591** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 392** | **199 037 585** | **199 037 592** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 393** | **199 037 586** | **199 037 593** | |

| d [mm] | DN [mm] | d3 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 95 | 43 | 45 | 220 | 290 | 55 | 140 | 95 |
| 75 | 65 | 114 | 46 | 45 | 220 | 312 | 65 | 152 | 95 |
| 90 | 80 | 131 | 46 | 45 | 220 | 327 | 73 | 159 | 95 |
| 110 | 100 | 152 | 52 | 45 | 220 | 360 | 87 | 178 | 95 |
| 140 | 125 | 182 | 56 | 45 | 320 | 388 | 102 | 191 | 95 |
| 160 | 150 | 209 | 56 | 45 | 320 | 416 | 118 | 203 | 95 |
| 225 | 200 | 262 | 60 | 45 | 320 | 489 | 149 | 245 | 95 |

# Metal - butterfly valve type 037G
# Reduction gear with handwheel

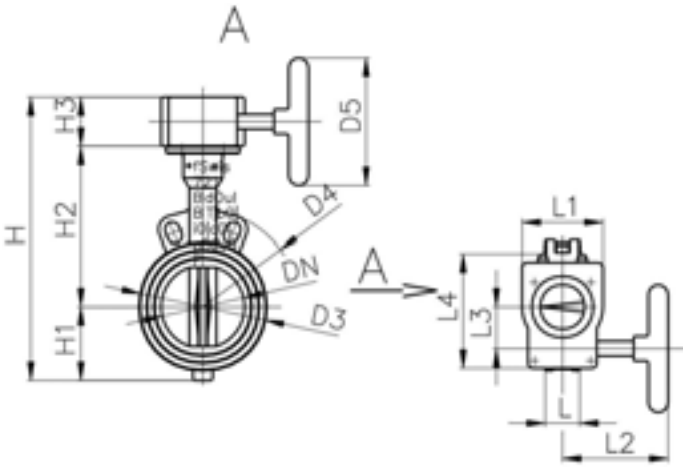
**Model:**

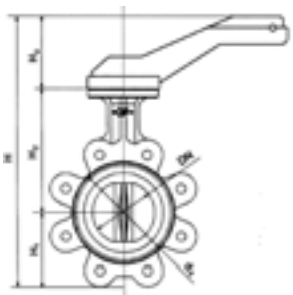
- Housing: Aluminium ASTM S 12A, Rilsan® coated

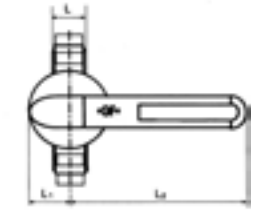
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 026** | **199 037 039** | **199 037 226** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 027** | **199 037 040** | **199 037 227** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 028** | **199 037 041** | **199 037 228** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 029** | **199 037 042** | **199 037 229** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 030** | **199 037 043** | **199 037 230** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 031** | **199 037 044** | **199 037 231** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 032** | **199 037 045** | **199 037 232** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 033** | **199 037 046** | **199 037 233** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 034** | **199 037 047** | **199 037 234** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 239** | **199 037 426** | **199 037 439** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 240** | **199 037 427** | **199 037 440** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 241** | **199 037 428** | **199 037 441** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 242** | **199 037 429** | **199 037 442** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 243** | **199 037 430** | **199 037 443** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 244** | **199 037 431** | **199 037 444** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 245** | **199 037 432** | **199 037 445** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 246** | **199 037 433** | **199 037 446** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 247** | **199 037 434** | **199 037 447** | |

| d [mm] | DN [mm] | D3 [mm] | D4 [mm] | D5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 95 | 165 | 125 | 43 | 84 | 152 | 38 | 107 | 253 | 55 | 140 | 58 |
| 75 | 65 | 114 | 185 | 125 | 46 | 84 | 152 | 38 | 107 | 275 | 65 | 152 | 58 |
| 90 | 80 | 131 | 190 | 125 | 46 | 84 | 152 | 38 | 107 | 290 | 73 | 159 | 58 |
| 110 | 100 | 152 | 229 | 125 | 52 | 84 | 152 | 38 | 107 | 323 | 87 | 178 | 58 |
| 140 | 125 | 182 | 254 | 125 | 56 | 84 | 152 | 38 | 107 | 351 | 102 | 191 | 58 |
| 160 | 150 | 209 | 285 | 125 | 56 | 84 | 152 | 38 | 107 | 379 | 118 | 203 | 58 |
| 225 | 200 | 262 | 343 | 125 | 60 | 84 | 152 | 38 | 107 | 452 | 149 | 245 | 58 |
| 280 | 250 | 331 | 333 | 250 | 68 | 106 | 184 | 52 | 142 | 542 | 200 | 275 | 67 |
| 315 | 300 | 380 | 353 | 250 | 78 | 106 | 184 | 52 | 142 | 609 | 227 | 315 | 67 |







# Metal - butterfly valve type 038M
# With hand lever

- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 000** | **199 038 013** | **199 038 200** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 001** | **199 038 014** | **199 038 201** | |
| 90 | 80 | 3 | 10 | 7140 | **199 038 002** | **199 038 015** | **199 038 202** | |
| 110 | 100 | 4 | 10 | 11710 | **199 038 003** | **199 038 016** | **199 038 203** | |
| 140 | 125 | 5 | 10 | 18570 | **199 038 004** | **199 038 017** | **199 038 204** | |
| 160 | 150 | 6 | 10 | 27130 | **199 038 005** | **199 038 018** | **199 038 205** | |
| 225 | 200 | 8 | 10 | 47130 | **199 038 006** | **199 038 019** | **199 038 206** | |
| 280 | 250 | 10 | 10 | 77110 | **199 038 007** | **199 038 020** | **199 038 207** | |
| 315 | 300 | 12 | 10 | 114240 | **199 038 008** | **199 038 021** | **199 038 208** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 213** | **199 038 400** | **199 038 413** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 214** | **199 038 401** | **199 038 414** | |
| 90 | 80 | 3 | 10 | 7140 | **199 038 215** | **199 038 402** | **199 038 415** | |
| 110 | 100 | 4 | 10 | 11710 | **199 038 216** | **199 038 403** | **199 038 416** | |
| 140 | 125 | 5 | 10 | 18570 | **199 038 217** | **199 038 404** | **199 038 417** | |
| 160 | 150 | 6 | 10 | 27130 | **199 038 218** | **199 038 405** | **199 038 418** | |
| 225 | 200 | 8 | 10 | 47130 | **199 038 219** | **199 038 406** | **199 038 419** | |
| 280 | 250 | 10 | 10 | 77110 | **199 038 220** | **199 038 407** | **199 038 420** | |
| 315 | 300 | 12 | 10 | 114240 | **199 038 221** | **199 038 408** | **199 038 421** | |

| d [mm] | DN [mm] | d3 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 95 | 43 | 45 | 220 | 298 | 63 | 95 | 152 |
| 75 | 65 | 114 | 46 | 45 | 220 | 320 | 73 | 95 | 178 |
| 90 | 80 | 131 | 46 | 45 | 220 | 335 | 81 | 95 | 200 |
| 110 | 100 | 152 | 52 | 45 | 220 | 370 | 97 | 95 | 229 |
| 140 | 125 | 182 | 56 | 45 | 320 | 398 | 112 | 95 | 254 |
| 160 | 150 | 209 | 56 | 45 | 320 | 420 | 122 | 95 | 280 |
| 225 | 200 | 262 | 60 | 45 | 320 | 489 | 149 | 95 | 343 |
| 280 | 250 | 331 | 68 | 63 | 560 | 573 | 203 | 95 | 406 |
| 315 | 300 | 380 | 78 | 63 | 560 | 651 | 241 | 95 | 483 |

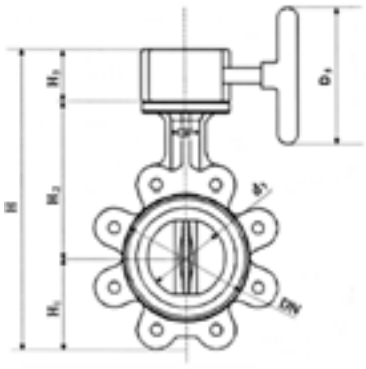
# Metal - butterfly valve type 038G
# Reduction gear with handwheel

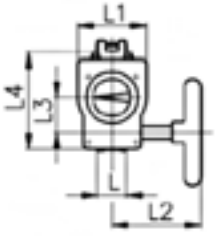
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 026** | **199 038 039** | **199 038 226** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 027** | **199 038 040** | **199 038 227** |
| 90 | 80 | 3 | 10 | 7140 | **199 038 028** | **199 038 041** | **199 038 228** |
| 110 | 100 | 4 | 10 | 11710 | **199 038 029** | **199 038 042** | **199 038 229** |
| 140 | 125 | 5 | 10 | 18570 | **199 038 030** | **199 038 043** | **199 038 230** |
| 160 | 150 | 6 | 10 | 27130 | **199 038 031** | **199 038 044** | **199 038 231** |
| 225 | 200 | 8 | 10 | 47130 | **199 038 032** | **199 038 045** | **199 038 232** |
| 280 | 250 | 10 | 10 | 77110 | **199 038 033** | **199 038 046** | **199 038 233** |
| 315 | 300 | 12 | 10 | 114240 | **199 038 034** | **199 038 047** | **199 038 234** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 239** | **199 038 426** | **199 038 439** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 240** | **199 038 427** | **199 038 440** |
| 90 | 80 | 3 | 10 | 7140 | **199 038 241** | **199 038 428** | **199 038 441** |
| 110 | 100 | 4 | 10 | 11710 | **199 038 242** | **199 038 429** | **199 038 442** |
| 140 | 125 | 5 | 10 | 18570 | **199 038 243** | **199 038 430** | **199 038 443** |
| 160 | 150 | 6 | 10 | 27130 | **199 038 244** | **199 038 431** | **199 038 444** |
| 225 | 200 | 8 | 10 | 47130 | **199 038 245** | **199 038 432** | **199 038 445** |
| 280 | 250 | 10 | 10 | 77110 | **199 038 246** | **199 038 433** | **199 038 446** |
| 315 | 300 | 12 | 10 | 114240 | **199 038 247** | **199 038 434** | **199 038 447** |

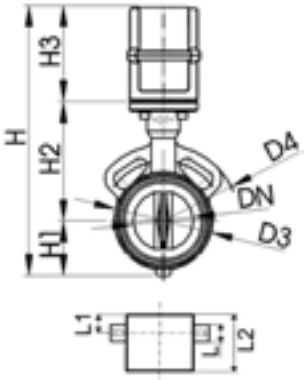
| d [mm] | DN [mm] | d3 [mm] | D5 [mm] | L [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 95 | 125 | 43 | 84 | 152 | 38 | 107 | 261 | 63 | 140 | 58 |
| 75 | 65 | 114 | 125 | 46 | 84 | 152 | 38 | 107 | 283 | 73 | 152 | 58 |
| 90 | 80 | 131 | 125 | 46 | 84 | 152 | 38 | 107 | 298 | 81 | 159 | 58 |
| 110 | 100 | 152 | 125 | 52 | 84 | 152 | 38 | 107 | 333 | 97 | 178 | 58 |
| 140 | 125 | 182 | 125 | 56 | 84 | 152 | 38 | 107 | 361 | 112 | 191 | 58 |
| 160 | 150 | 209 | 125 | 56 | 84 | 152 | 38 | 107 | 383 | 122 | 203 | 58 |
| 225 | 200 | 262 | 125 | 60 | 84 | 152 | 38 | 107 | 452 | 149 | 245 | 58 |
| 280 | 250 | 331 | 250 | 68 | 106 | 152 | 52 | 141 | 545 | 203 | 275 | 67 |
| 315 | 300 | 380 | 250 | 78 | 106 | 152 | 52 | 141 | 623 | 241 | 315 | 67 |





# Metal - butterfly valves electric wafer Metric/Inch/ANSI

## Metal - butterfly valve type 037E Without manual override







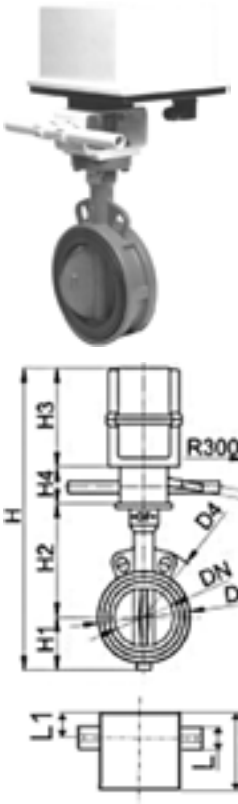
**Model:**

- Voltage 100-230 V, 50-60 Hz for EA31
- Voltage 115/230 V, 50-60 Hz for EA41/EA50
- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 130** | **199 037 143** | **199 037 330** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 131** | **199 037 144** | **199 037 331** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 132** | **199 037 145** | **199 037 332** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 133** | **199 037 146** | **199 037 333** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 134** | **199 037 147** | **199 037 334** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 135** | **199 037 148** | **199 037 335** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 136** | **199 037 149** | **199 037 336** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 137** | **199 037 150** | **199 037 337** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 138** | **199 037 151** | **199 037 338** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 343** | **199 037 530** | **199 037 543** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 344** | **199 037 531** | **199 037 544** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 345** | **199 037 532** | **199 037 545** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 346** | **199 037 533** | **199 037 546** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 347** | **199 037 534** | **199 037 547** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 348** | **199 037 535** | **199 037 548** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 349** | **199 037 536** | **199 037 549** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 350** | **199 037 537** | **199 037 550** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 351** | **199 037 538** | **199 037 551** | |

| d [mm] | DN [mm] | Actuator unit type | D3 [mm] | D4 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | EA-31 | 96 | 165 | 43 | 28 | 122 | 383 | 53 | 140 | 190 |
| 75 | 65 | EA-31 | 114 | 185 | 46 | 28 | 122 | 405 | 63 | 152 | 190 |
| 90 | 80 | EA-31 | 131 | 190 | 46 | 28 | 122 | 420 | 71 | 159 | 190 |
| 110 | 100 | EA-41 | 152 | 229 | 52 | 64 | 181 | 415 | 87 | 178 | 149 |
| 140 | 125 | EA-41 | 182 | 254 | 56 | 60 | 220 | 443 | 102 | 191 | 149 |
| 160 | 150 | EA-41 | 209 | 285 | 56 | 60 | 220 | 475 | 122 | 203 | 149 |
| 225 | 200 | EA-41 | 262 | 343 | 60 | 60 | 220 | 540 | 149 | 241 | 149 |
| 280 | 250 | EA-50 | 323 | 333 | 68 | 70 | 220 | 671 | 201 | 273 | 197 |
| 315 | 300 | EA-50 | 373 | 353 | 78 | 70 | 220 | 739 | 231 | 311 | 197 |




# Metal - butterfly valve type 037E
# With manual override

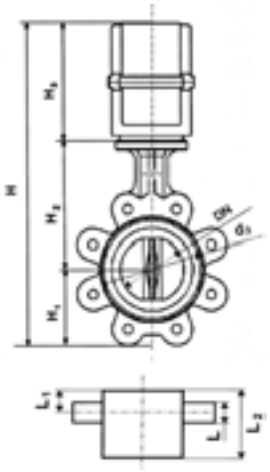
**Model:**

- Voltage 100-230 V, 50-60 Hz for EA31
- Voltage 115/230 V, 50-60 Hz for EA41/EA50
- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 156** | **199 037 169** | **199 037 356** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 157** | **199 037 170** | **199 037 357** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 158** | **199 037 171** | **199 037 358** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 159** | **199 037 172** | **199 037 359** |
| 140 | 125 | 5 | 10 | 18750 | **199 037 160** | **199 037 173** | **199 037 360** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 161** | **199 037 174** | **199 037 361** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 162** | **199 037 175** | **199 037 362** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 369** | **199 037 556** | **199 037 569** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 370** | **199 037 557** | **199 037 570** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 371** | **199 037 558** | **199 037 571** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 372** | **199 037 559** | **199 037 572** |
| 140 | 125 | 5 | 10 | 18750 | **199 037 373** | **199 037 560** | **199 037 573** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 374** | **199 037 561** | **199 037 574** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 375** | **199 037 562** | **199 037 575** |

| d [mm] | Actuator unit type | D3 [mm] | D4 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | EA-31 | 96 | 165 | 43 | 28 | 122 | 443 | 53 | 140 | 190 | 60 |
| 75 | EA-31 | 114 | 185 | 46 | 28 | 122 | 465 | 63 | 152 | 190 | 60 |
| 90 | EA-31 | 131 | 190 | 46 | 28 | 122 | 480 | 71 | 159 | 190 | 60 |
| 110 | EA-41 | 152 | 229 | 52 | 60 | 220 | 475 | 87 | 178 | 150 | 60 |
| 140 | EA-41 | 182 | 254 | 56 | 60 | 220 | 503 | 102 | 191 | 150 | 60 |
| 160 | EA-41 | 209 | 285 | 56 | 60 | 220 | 535 | 122 | 203 | 150 | 60 |
| 225 | EA-41 | 262 | 343 | 60 | 60 | 220 | 600 | 149 | 241 | 150 | 60 |



# Metal - butterfly valve type 038E
# Without manual override

**Model:**

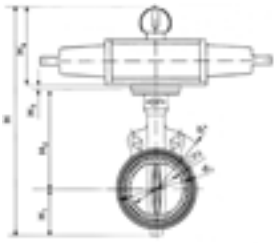
- Voltage 100-230 V, 50-60 Hz  for EA31
- Voltage 115/230 V, 50-60 Hz for EA41/EA50

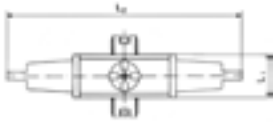
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in 24 V AC/DC and/other in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 130** | **199 038 330** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 131** | **199 038 331** |
| 90 | 80 | 3 | 10 | 7140 | **199 038 132** | **199 038 332** |
| 110 | 100 | 4 | 10 | 11710 | **199 038 133** | **199 038 333** |
| 140 | 125 | 5 | 10 | 18570 | **199 038 134** | **199 038 334** |
| 160 | 150 | 6 | 10 | 27130 | **199 038 135** | **199 038 335** |
| 225 | 200 | 8 | 10 | 47130 | **199 038 136** | **199 038 336** |
| 280 | 250 | 10 | 10 | 77110 | **199 038 137** | **199 038 337** |
| 315 | 300 | 12 | 10 | 114240 | **199 038 138** | **199 038 338** |

| d [mm] | DN [mm] | Actuator unit type | d3 [mm] | L [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | EA-31 | 65 | 43 | 28 | 122 | 393 | 63 | 140 | 190 |
| 75 | 65 | EA-31 | 114 | 46 | 28 | 122 | 415 | 73 | 152 | 190 |
| 90 | 80 | EA-31 | 131 | 46 | 28 | 122 | 430 | 81 | 159 | 190 |
| 110 | 100 | EA-41 | 152 | 52 | 60 | 220 | 333 | 97 | 178 | 58 |
| 140 | 125 | EA-41 | 182 | 56 | 60 | 220 | 361 | 112 | 191 | 58 |
| 160 | 150 | EA-41 | 209 | 56 | 60 | 220 | 383 | 122 | 203 | 58 |
| 225 | 200 | EA-41 | 262 | 60 | 60 | 220 | 452 | 149 | 245 | 58 |
| 280 | 250 | EA-50 | 331 | 68 | 70 | 220 | 545 | 203 | 275 | 67 |
| 315 | 300 | EA-50 | 380 | 78 | 70 | 220 | 623 | 241 | 315 | 67 |

# Metal - butterfly valves pneumatic wafer Metric/Inch/ANSI





## Metal - butterfly valve type 037P FC (Fail safe to close) Without manual override

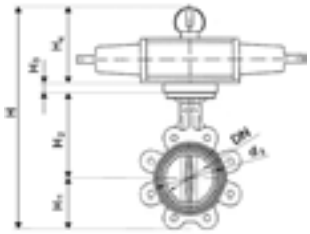
**Model:**

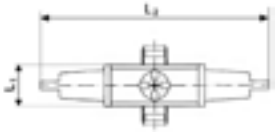
- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 052** | **199 037 065** | **199 037 252** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 053** | **199 037 066** | **199 037 253** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 054** | **199 037 067** | **199 037 254** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 055** | **199 037 068** | **199 037 255** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 056** | **199 037 069** | **199 037 256** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 057** | **199 037 070** | **199 037 257** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 058** | **199 037 071** | **199 037 258** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 059** | **199 037 072** | **199 037 259** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 060** | **199 037 073** | **199 037 260** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 265** | **199 037 452** | **199 037 465** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 266** | **199 037 453** | **199 037 466** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 267** | **199 037 454** | **199 037 467** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 268** | **199 037 455** | **199 037 468** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 269** | **199 037 456** | **199 037 469** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 270** | **199 037 457** | **199 037 470** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 271** | **199 037 458** | **199 037 471** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 272** | **199 037 459** | **199 037 472** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 273** | **199 037 460** | **199 037 473** |

| d [mm] | DN [mm] | Actuator unit type | d3 [mm] | d4 [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | PA-30 | 95 | 165 | 65 | 240 | 338 | 55 | 140 | 40 | 103 |
| 75 | 65 | PA-30 | 114 | 185 | 65 | 240 | 360 | 65 | 152 | 40 | 103 |
| 90 | 80 | PA-35 | 131 | 190 | 72 | 294 | 391 | 73 | 159 | 46 | 113 |
| 110 | 100 | PA-40 | 152 | 229 | 80 | 320 | 441 | 87 | 178 | 46 | 130 |
| 140 | 125 | PA-45 | 182 | 254 | 90 | 357 | 489 | 102 | 191 | 56 | 140 |
| 160 | 150 | PA-50 | 209 | 285 | 100 | 395 | 527 | 118 | 203 | 56 | 150 |
| 225 | 200 | PA-60 | 262 | 343 | 124 | 487 | 632 | 149 | 241 | 68 | 174 |
| 280 | 250 | PA-60 | 331 | 333 | 124 | 487 | 717 | 200 | 275 | 68 | 174 |
| 315 | 300 | PA-70 | 380 | 353 | 145 | 551 | 823 | 227 | 315 | 83 | 198 |



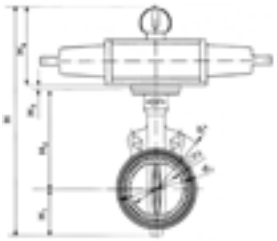


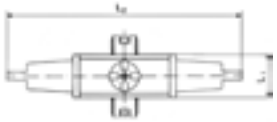
# Metal - butterfly valve type 038P FC (Fail safe to close) Without manual override

- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 052** | **199 038 252** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 053** | **199 038 253** | |
| 90 | 80 | 3 | 10 | 7140 | **199 038 054** | **199 038 254** | |
| 110 | 100 | 4 | 10 | 11710 | **199 038 055** | **199 038 255** | |
| 140 | 125 | 5 | 10 | 18570 | **199 038 056** | **199 038 256** | |
| 160 | 150 | 6 | 10 | 27130 | **199 038 057** | **199 038 257** | |
| 225 | 200 | 8 | 10 | 47130 | **199 038 058** | **199 038 258** | |
| 280 | 250 | 10 | 10 | 77110 | **199 038 059** | **199 038 259** | |
| 315 | 300 | 12 | 10 | 114240 | **199 038 060** | **199 038 260** | |

| d [mm] | DN [mm] | Actuator unit type | d3 [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | PA-30 | 95 | 65 | 240 | 321 | 63 | 140 | 15 | 103 |
| 75 | 65 | PA-30 | 114 | 65 | 240 | 343 | 73 | 152 | 15 | 103 |
| 90 | 80 | PA-35 | 131 | 72 | 294 | 365 | 81 | 159 | 12 | 113 |
| 110 | 100 | PA-40 | 152 | 80 | 320 | 420 | 97 | 178 | 15 | 130 |
| 140 | 125 | PA-45 | 182 | 90 | 357 | 455 | 112 | 191 | 12 | 140 |
| 160 | 150 | PA-50 | 209 | 100 | 395 | 487 | 122 | 203 | 12 | 150 |
| 225 | 200 | PA-60 | 262 | 124 | 487 | 580 | 149 | 245 | 12 | 174 |
| 280 | 250 | PA-60 | 331 | 124 | 487 | 672 | 203 | 275 | 20 | 174 |
| 315 | 300 | PA-70 | 380 | 145 | 551 | 774 | 241 | 315 | 20 | 198 |





# Metal - butterfly valve type 037P FO (Fail safe to open) Without manual override

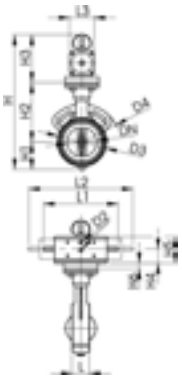
**Model:**

- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 078** | **199 037 091** | **199 037 278** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 079** | **199 037 092** | **199 037 279** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 080** | **199 037 093** | **199 037 280** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 081** | **199 037 094** | **199 037 281** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 082** | **199 037 095** | **199 037 282** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 083** | **199 037 096** | **199 037 283** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 084** | **199 037 097** | **199 037 284** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 085** | **199 037 098** | **199 037 285** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 086** | **199 037 099** | **199 037 286** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 291** | **199 037 478** | **199 037 491** |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 292** | **199 037 479** | **199 037 492** |
| 90 | 80 | 3 | 10 | 7140 | **199 037 293** | **199 037 480** | **199 037 493** |
| 110 | 100 | 4 | 10 | 11710 | **199 037 294** | **199 037 481** | **199 037 494** |
| 140 | 125 | 5 | 10 | 18570 | **199 037 295** | **199 037 482** | **199 037 495** |
| 160 | 150 | 6 | 10 | 27130 | **199 037 296** | **199 037 483** | **199 037 496** |
| 225 | 200 | 8 | 10 | 47130 | **199 037 297** | **199 037 484** | **199 037 497** |
| 280 | 250 | 10 | 10 | 77110 | **199 037 298** | **199 037 485** | **199 037 498** |
| 315 | 300 | 12 | 10 | 114240 | **199 037 299** | **199 037 486** | **199 037 499** |

| d [mm] | DN [mm] | Actuator unit type | d3 [mm] | d4 [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | PA-30 | 95 | 165 | 65 | 240 | 338 | 55 | 140 | 40 | 103 |
| 75 | 65 | PA-30 | 114 | 185 | 65 | 240 | 360 | 65 | 152 | 40 | 103 |
| 90 | 80 | PA-35 | 131 | 190 | 72 | 294 | 391 | 73 | 159 | 46 | 113 |
| 110 | 100 | PA-40 | 152 | 229 | 80 | 320 | 441 | 87 | 178 | 46 | 130 |
| 140 | 125 | PA-45 | 182 | 254 | 90 | 357 | 489 | 102 | 191 | 56 | 140 |
| 160 | 150 | PA-50 | 209 | 285 | 100 | 395 | 527 | 118 | 203 | 56 | 150 |
| 225 | 200 | PA-60 | 262 | 343 | 124 | 487 | 632 | 149 | 241 | 68 | 174 |
| 280 | 250 | PA-60 | 331 | 333 | 124 | 487 | 717 | 200 | 275 | 68 | 174 |
| 315 | 300 | PA-60 | 380 | 353 | 145 | 551 | 823 | 227 | 315 | 83 | 198 |



# Metal - butterfly valve type 037P DA (Double acting) Without manual override

**Model:**

- Housing: Aluminium ASTM S 12A, Rilsan® coated

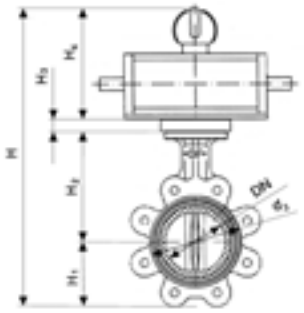
| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 104** | **199 037 117** | **199 037 304** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 105** | **199 037 118** | **199 037 305** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 106** | **199 037 119** | **199 037 306** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 107** | **199 037 120** | **199 037 307** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 108** | **199 037 121** | **199 037 308** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 109** | **199 037 122** | **199 037 309** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 110** | **199 037 123** | **199 037 310** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 111** | **199 037 124** | **199 037 311** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 112** | **199 037 125** | **199 037 312** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 037 317** | **199 037 504** | **199 037 517** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 037 318** | **199 037 505** | **199 037 518** | |
| 90 | 80 | 3 | 10 | 7140 | **199 037 319** | **199 037 506** | **199 037 519** | |
| 110 | 100 | 4 | 10 | 11710 | **199 037 320** | **199 037 507** | **199 037 520** | |
| 140 | 125 | 5 | 10 | 18570 | **199 037 321** | **199 037 508** | **199 037 521** | |
| 160 | 150 | 6 | 10 | 27130 | **199 037 322** | **199 037 509** | **199 037 522** | |
| 225 | 200 | 8 | 10 | 47130 | **199 037 323** | **199 037 510** | **199 037 523** | |
| 280 | 250 | 10 | 10 | 77110 | **199 037 324** | **199 037 511** | **199 037 524** | |
| 315 | 300 | 12 | 10 | 114240 | **199 037 325** | **199 037 512** | **199 037 525** | |

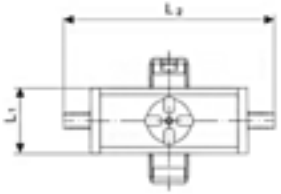
| d [mm] | DN [mm] | Actuator unit type | D3 [mm] | D4 [mm] | L [mm] | L1 [mm] | L3 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | PA-35 | 95 | 165 | 43 | 190 | 60 | 308 | 55 | 140 | 113 | 35 | 60 | 15 |
| 75 | 65 | PA-35 | 114 | 185 | 46 | 190 | 60 | 330 | 65 | 152 | 113 | 35 | 60 | 15 |
| 90 | 80 | PA-35 | 131 | 190 | 46 | 190 | 60 | 345 | 73 | 159 | 113 | 38 | 71 | 15 |
| 110 | 100 | PA-45 | 152 | 229 | 52 | 235 | 72 | 392 | 87 | 178 | 127 | 38 | 71 | 15 |
| 140 | 125 | PA-45 | 182 | 254 | 56 | 235 | 72 | 420 | 102 | 191 | 127 | 46 | 86 | 15 |
| 160 | 150 | PA-55 | 209 | 285 | 56 | 279 | 90 | 476 | 118 | 203 | 155 | 46 | 86 | 15 |
| 225 | 200 | PA-60 | 262 | 343 | 60 | 341 | 100 | 559 | 149 | 245 | 165 | 56 | 106 | 15 |
| 280 | 250 | PA-65 | 331 | 333 | 68 | 350 | 112 | 662 | 200 | 275 | 187 | 56 | 106 | 25 |
| 315 | 300 | PA-70 | 380 | 353 | 78 | 381 | 124 | 741 | 227 | 315 | 199 | 68 | 130 | 25 |

# Metal - butterfly valve type 038P DA (Double acting) Without manual override

- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar



| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **199 038 104** | **199 038 304** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **199 038 105** | **199 038 305** | |
| 90 | 80 | 3 | 10 | 7140 | **199 038 106** | **199 038 306** | |
| 110 | 100 | 4 | 10 | 11710 | **199 038 107** | **199 038 307** | |
| 140 | 125 | 5 | 10 | 18570 | **199 038 108** | **199 038 308** | |
| 160 | 150 | 6 | 10 | 27130 | **199 038 109** | **199 038 309** | |
| 225 | 200 | 8 | 10 | 47130 | **199 038 110** | **199 038 310** | |
| 280 | 250 | 10 | 10 | 77110 | **199 038 111** | **199 038 311** | |
| 315 | 300 | 12 | 10 | 114240 | **199 038 112** | **199 038 312** | |



| d [mm] | DN [mm] | Actuator unit type | d3 [mm] | L1 [mm] | L2 [mm] | H [mm] | H1 [mm] | H2 [mm] | H3 [mm] | H4 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | PA-35 | 95 | 60 | 144 | 317 | 63 | 140 | 15 | 99 |
| 75 | 65 | PA-35 | 114 | 60 | 144 | 339 | 73 | 152 | 15 | 99 |
| 90 | 80 | PA-35 | 131 | 60 | 144 | 354 | 81 | 159 | 15 | 99 |
| 110 | 100 | PA-45 | 152 | 72 | 169 | 402 | 97 | 178 | 15 | 112 |
| 140 | 125 | PA-45 | 182 | 72 | 169 | 430 | 112 | 191 | 15 | 112 |
| 160 | 150 | PA-55 | 209 | 90 | 212 | 480 | 122 | 203 | 15 | 140 |
| 225 | 200 | PA-60 | 262 | 100 | 255 | 559 | 149 | 245 | 15 | 150 |
| 280 | 250 | PA-65 | 331 | 112 | 264 | 665 | 203 | 275 | 25 | 162 |
| 315 | 300 | PA-70 | 380 | 124 | 295 | 755 | 241 | 315 | 25 | 174 |

# Spare parts for metal butterfly valves

## Hand lever kit for type 037M / 038M

| d-d [mm] | DN-DN [mm] | Inch | Code |
|---|---|---|---|
| 63 - 90 | 50 - 80 | 2-3 | **198 803 049** |
| 110 - 110 | 100 - 100 | 4-5 | **198 803 050** |
| 140 - 140 | 125 - 125 | 6 | **198 803 051** |
| 160 - 225 | 150 - 200 | 8 | **198 803 052** |
| 280 - 315 | 250 - 300 | 10-12 | **198 806 645** |

## Hand lever kit with fine adjustment For type 037M / 038M

| d-d [mm] | DN-DN [mm] | Inch | Code |
|---|---|---|---|
| 63 - 90 | 50 - 80 | 2-3 | **198 803 384** |
| 110 - 110 | 100 - 100 | 4 | **198 803 385** |
| 140 - 140 | 125 - 125 | 5 | **198 803 386** |
| 160 - 225 | 150 - 200 | 6-8 | **198 803 387** |

## Reduction gear with handwheel for type 037G / 038G

- Including assembly kit

| d-d [mm] | DN-DN [mm] | Inch | Code |
|---|---|---|---|
| 63 - 90 | 50 - 80 | 2-3 | **198 806 690** |
| 110 - 140 | 100 - 125 | 4-5 | **198 806 691** |
| 160 - 225 | 150 - 200 | 6-8 | **198 806 692** |
| 280 - 315 | 250 - 300 | 10-12 | **198 806 693** |

## For butterfly valve type 037M / 038M With electric position indicator Limit switch box with 2 auxiliary switches

- Limit switch box and hand lever not included
- Solution for PNP, NPN, NAMUR on request

| d-d [mm] | DN-DN [mm] | Inch | Code |
|---|---|---|---|
| 63 - 90 | 50 - 80 | 2-3 | **198 151 341** |
| 110 - 110 | 100 - 100 | 4 | **198 151 342** |
| 140 - 140 | 125 - 125 | 5 | **198 151 343** |
| 160 - 225 | 150 - 200 | 6-8 | **198 151 344** |

# Bare shaft metal - butterfly valve type 037 Metric/Inch/ANSI

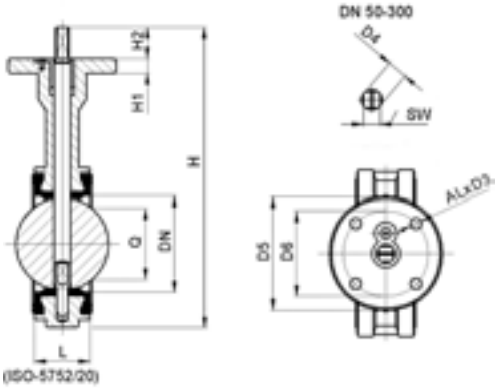
**Model:**

- Housing: Aluminium ASTM S 12A, Rilsan® coated

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **198 150 800** | **198 150 832** | **198 150 843** |
| 75 | 65 | 2 ½ | 10 | 4570 | **198 150 801** | **198 150 833** | **198 150 844** |
| 90 | 80 | 3 | 10 | 7140 | **198 150 802** | **198 150 834** | **198 150 845** |
| 110 | 100 | 4 | 10 | 11710 | **198 150 803** | **198 150 835** | **198 150 846** |
| 140 | 125 | 5 | 10 | 18570 | **198 150 804** | **198 150 836** | **198 150 847** |
| 160 | 150 | 6 | 10 | 27130 | **198 150 805** | **198 150 837** | **198 150 848** |
| 225 | 200 | 8 | 10 | 47130 | **198 150 806** | **198 150 838** | **198 150 849** |
| 280 | 250 | 10 | 10 | 77110 | **198 150 807** | **198 150 839** | **198 150 850** |
| 315 | 300 | 12 | 10 | 114240 | **198 150 808** | **198 150 840** | **198 150 851** |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code |
|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **198 150 854** | **198 151 000** | **198 151 011** |
| 75 | 65 | 2 ½ | 10 | 4570 | **198 150 855** | **198 151 001** | **198 151 012** |
| 90 | 80 | 3 | 10 | 7140 | **198 150 856** | **198 151 002** | **198 151 013** |
| 110 | 100 | 4 | 10 | 11710 | **198 150 857** | **198 151 003** | **198 151 014** |
| 140 | 125 | 5 | 10 | 18570 | **198 150 858** | **198 151 004** | **198 151 015** |
| 160 | 150 | 6 | 10 | 27130 | **198 150 859** | **198 151 005** | **198 151 016** |
| 225 | 200 | 8 | 10 | 47130 | **198 150 860** | **198 151 006** | **198 151 017** |
| 280 | 250 | 10 | 10 | 77110 | **198 150 861** | **198 151 007** | **198 151 018** |
| 315 | 300 | 12 | 10 | 114240 | **198 150 862** | **198 151 008** | **198 151 019** |

| d [mm] | DN [mm] | Q [mm] | L [mm] | | AL | D3 [mm] | D4 [mm] | D5 [mm] | D6 [mm] | H [mm] | H1 [mm] | H2 [mm] | SW [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 32 | 43 | F-07 | 4 | 9 | 14 | 90 | 70 | 221 | 13 | 26 | 11 |
| 75 | 65 | 51 | 46 | F-07 | 4 | 9 | 14 | 90 | 70 | 243 | 13 | 26 | 11 |
| 90 | 80 | 69 | 46 | F-07 | 4 | 9 | 14 | 90 | 70 | 258 | 13 | 26 | 11 |
| 110 | 100 | 89 | 52 | F-07 | 4 | 9 | 18 | 90 | 70 | 295 | 16 | 30 | 14 |
| 140 | 125 | 115 | 56 | F-07 | 4 | 9 | 18 | 90 | 70 | 323 | 16 | 30 | 14 |
| 160 | 150 | 143 | 56 | F-07 | 4 | 9 | 22 | 90 | 70 | 354 | 17 | 33 | 17 |
| 225 | 200 | 194 | 60 | F-07 | 4 | 9 | 22 | 90 | 70 | 427 | 17 | 33 | 17 |
| 280 | 250 | 243 | 68 | F-10 | 4 | 11 | 28 | 125 | 102 | 522 | 17 | 47 | 22 |
| 315 | 300 | 293 | 78 | F-10 | 4 | 11 | 28 | 125 | 102 | 589 | 17 | 47 | 22 |



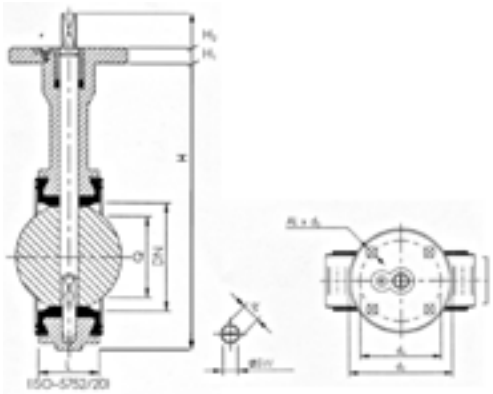
# Bare shaft metal - butterfly valve type 038 metric

- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded:
- DN50 to DN150 5,6 bar
- > DN200 3,5 bar

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: ductile iron/Rilsan® coated Seat-Liner: EPDM Code | Disc: ductile iron/Rilsan® coated Seat-Liner: FPM Code | Disc: stainless steel Seat-Liner: EPDM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **198 150 811** | **198 151 022** | **198 151 031** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **198 150 812** | **198 151 023** | **198 151 032** | |
| 90 | 80 | 3 | 10 | 7140 | **198 150 813** | **198 151 024** | **198 151 033** | |
| 110 | 100 | 4 | 10 | 11710 | **198 150 814** | **198 151 025** | **198 151 034** | |
| 140 | 125 | 5 | 10 | 18570 | **198 150 815** | **198 151 026** | **198 151 035** | |
| 160 | 150 | 6 | 10 | 27130 | **198 150 816** | **198 151 027** | **198 151 036** | |
| 225 | 200 | 8 | 10 | 47130 | **198 150 817** | **198 151 028** | **198 151 037** | |
| 280 | 250 | 10 | 10 | 77110 | **198 150 818** | **198 151 029** | **198 151 038** | |
| 315 | 300 | 12 | 10 | 114240 | **198 150 819** | **198 151 030** | **198 151 039** | |

| d [mm] | DN [mm] | Inch | PN | kv-value (Δp=1 bar) [l/min] | Disc: stainless steel Seat-Liner: FPM Code | Disc: Aluminium-bronze Seat-Liner: EPDM Code | Disc: Aluminium-bronze Seat-Liner: FPM Code | |
|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 2 | 10 | 3140 | **198 151 040** | **198 151 049** | **198 151 058** | |
| 75 | 65 | 2 ½ | 10 | 4570 | **198 151 041** | **198 151 050** | **198 151 059** | |
| 90 | 80 | 3 | 10 | 7140 | **198 151 042** | **198 151 051** | **198 151 060** | |
| 110 | 100 | 4 | 10 | 11710 | **198 151 043** | **198 151 052** | **198 151 061** | |
| 140 | 125 | 5 | 10 | 18570 | **198 151 044** | **198 151 053** | **198 151 062** | |
| 160 | 150 | 6 | 10 | 27130 | **198 151 045** | **198 151 054** | **198 151 063** | |
| 225 | 200 | 8 | 10 | 47130 | **198 151 046** | **198 151 055** | **198 151 064** | |
| 280 | 250 | 10 | 10 | 77110 | **198 151 047** | **198 151 056** | **198 151 065** | |
| 315 | 300 | 12 | 10 | 114240 | **198 151 048** | **198 151 057** | **198 151 066** | |

| d [mm] | DN [mm] | Q [mm] | L [mm] | | AL | D3 [mm] | D4 [mm] | D5 [mm] | D6 [mm] | H [mm] | H1 [mm] | H2 [mm] | SW [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 50 | 32 | 43 | F-07 | 4 | 9 | 14 | 90 | 70 | 229 | 13 | 26 | 11 |
| 75 | 65 | 51 | 46 | F-07 | 4 | 9 | 14 | 90 | 70 | 251 | 13 | 26 | 11 |
| 90 | 80 | 69 | 46 | F-07 | 4 | 9 | 14 | 90 | 70 | 266 | 13 | 26 | 11 |
| 110 | 100 | 89 | 52 | F-07 | 4 | 9 | 18 | 90 | 70 | 305 | 16 | 30 | 14 |
| 140 | 125 | 115 | 56 | F-07 | 4 | 9 | 18 | 90 | 70 | 333 | 16 | 30 | 14 |
| 160 | 150 | 143 | 56 | F-07 | 4 | 9 | 22 | 90 | 70 | 358 | 17 | 33 | 17 |
| 225 | 200 | 194 | 60 | F-07 | 4 | 9 | 22 | 90 | 70 | 427 | 17 | 33 | 17 |
| 280 | 250 | 243 | 68 | F-10 | 4 | 11 | 28 | 125 | 102 | 525 | 17 | 47 | 22 |
| 315 | 300 | 293 | 78 | F-10 | 4 | 11 | 28 | 125 | 102 | 603 | 17 | 47 | 22 |



## Intermediate part for type 037P / 038P

| d [mm] | DN [mm] | Inch | Type | FC/FO Code | DA Code |
|---|---|---|---|---|---|
| 63 | | | PA 30 | - | **198 000 300** |
| 90 | 80 | 3 | PA 35 | **198 000 301** | - |
| 90 | 80 | 3 | PA 35 | **198 000 302** | **198 000 301** |
| 110 | 100 | 4 | PA 40 | **198 000 304** | **198 000 303** |
| 110 | 100 | 4 | PA 40 | - | **198 000 304** |
| 140 | | | PA 45 | **198 000 305** | - |
| 160 | 150 | 6 | PA 50 | **198 000 307** | **198 000 306** |
| 225 | 200 | 8 | PA 60 | **198 000 309** | **198 000 308** |
| 280 | 250 | 10 | PA 60 | **198 000 310** | **198 000 311** |
| 280 | 250 | 10 | PA 60 | - | **198 000 310** |
| 315 | | | PA 70 | **198 000 312** | - |

## Seat liner for type 037 / 038

| d [mm] | DN [mm] | Inch | EPDM Code | FPM Code | CSM Code | NBR Code |
|---|---|---|---|---|---|---|
| 63 | 50 | 2 | **198 806 726** | **198 806 713** | **198 806 854** | **198 806 937** |
| 75 | 65 | 2 ½ | **198 806 727** | **198 806 714** | **198 806 855** | **198 806 938** |
| 90 | 80 | 3 | **198 806 728** | **198 806 715** | **198 806 856** | **198 806 939** |
| 110 | 100 | 4 | **198 806 729** | **198 806 716** | **198 806 857** | **198 806 940** |
| 140 | 125 | 5 | **198 806 730** | **198 806 717** | **198 806 858** | **198 806 941** |
| 160 | 150 | 6 | **198 806 731** | **198 806 718** | **198 806 859** | **198 806 942** |
| 225 | 200 | 8 | **198 806 732** | **198 806 719** | **198 806 860** | **198 806 943** |
| 280 | 250 | 10 | **198 806 733** | **198 806 720** | **198 806 861** | **198 806 944** |
| 315 | 300 | 12 | **198 806 734** | **198 806 721** | **198 806 862** | **198 806 945** |

## Disc for type 037 / 038

| d [mm] | DN [mm] | Inch | Ductile iron (GGG40)/ Rilsan® coated Code | Stainless steel (ASTM A351 - CF8M - 1.4408) Code | Aluminium-bronze (ASTM B-148) Code |
|---|---|---|---|---|---|
| 63 | 50 | 2 | **198 806 740** | **198 806 700** | **198 806 920** |
| 75 | 65 | 2 ½ | **198 806 741** | **198 806 701** | **198 806 921** |
| 90 | 80 | 3 | **198 806 742** | **198 806 702** | **198 806 922** |
| 110 | 100 | 4 | **198 806 743** | **198 806 703** | **198 806 923** |
| 140 | 125 | 5 | **198 806 744** | **198 806 704** | **198 806 924** |
| 160 | 150 | 6 | **198 806 745** | **198 806 705** | **198 806 925** |
| 225 | 200 | 8 | **198 806 746** | **198 806 706** | **198 806 926** |
| 280 | 250 | 10 | **198 806 747** | **198 806 707** | **198 806 927** |
| 315 | 300 | 12 | **198 806 748** | **198 806 708** | **198 806 928** |

## Shaft for type 037 / 038

| d [mm] | DN [mm] | Inch | Stainless steel AISI 420 / V2A Code | Stainless steel AISI 316 / V4A Code |
|---|---|---|---|---|
| 63 | 50 | 2 | **198 806 780** | **198 806 790** |
| 75 | 65 | 2 ½ | **198 806 781** | **198 806 791** |
| 90 | 80 | 3 | **198 806 782** | **198 806 792** |
| 110 | 100 | 4 | **198 806 783** | **198 806 793** |
| 140 | 125 | 5 | **198 806 784** | **198 806 794** |
| 160 | 150 | 6 | **198 806 785** | **198 806 795** |
| 225 | 200 | 8 | **198 806 786** | **198 806 796** |
| 280 | 250 | 10 | **198 806 787** | **198 806 797** |
| 315 | 300 | 12 | **198 806 788** | **198 806 798** |

# Notes

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# Spare parts, Automation and actuators


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# Electric actuators

## Electric actuator type EA 11

| Voltage | Code | kg | |
|---|---|---|---|
| 100-230 V~ | **198 150 180** | 1.500 | |
| 24 V=/ ~ | **198 150 181** | 1.500 | |

## Electric actuator type EA 21

| Voltage | Code | kg | |
|---|---|---|---|
| 100-230 V~ | **198 150 182** | 1.750 | |
| 24 V=/ ~ | **198 150 183** | 1.750 | |

## Electric actuator type EA 31

New

| Voltage | Code | kg | |
|---|---|---|---|
| 100-230 V~ | **198 150 184** | 2.150 | |
| 24 V=/ ~ | **198 150 185** | 2.150 | |

## Electric actuator type EA 42

New

| Voltage | Code | kg | |
|---|---|---|---|
| 100-230 V~ | **198 150 186** | 2.150 | |
| 24 V=/ ~ | **198 150 187** | 2.150 | |

# Accessories for electric actuators

## For electric actuators
## Type EA 11/ EA 21/ EA 31/ EA 42
## Heating element

| Voltage | Code | kg | |
|---|---|---|---|
| 24 V= | **199 190 086** | 0.200 | |

## For electric actuators
## Type EA 11/ EA 21/ EA 31/ EA 42
## Fail safe return incl. battery kit

| Voltage | Code | kg | |
|---|---|---|---|
| 24 V= | **199 190 085** | 0.885 | |

## For electric actuators
## Type EA 11/ EA 21/ EA 31/ EA 42
## Heating element + fail safe return incl. battery kit

| Voltage | Code | kg | |
|---|---|---|---|
| 24 V= | **199 190 087** | 0.200 | |

## For electric actuators
## Type EA 11/ EA 21/ EA 31/ EA 42
## Battery kit (spare)

| Voltage | Code | kg | |
|---|---|---|---|
| 24 V= | **198 151 317** | 0.250 | |

## For electric actuators
## Type EA 11/ EA 21/ EA 31/ EA 42
## Limit switch kit with mechanical limit switches AgNi

| Voltage | Code | kg | |
|---|---|---|---|
| 250 V ~6 A | **199 190 092** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Testing adapter kit

| Code | kg | |
|---|---|---|
| **198 151 426** | 0.100 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Monitoring print

| Code | kg | |
|---|---|---|
| **199 190 099** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Cycle time extension

**Model:**

- Monitoring print required

| Code | kg | |
|---|---|---|
| **199 190 080** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Cycle time monitoring

**Model:**

- Monitoring print required

| Code | kg | |
|---|---|---|
| **199 190 082** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Cycle counter

**Model:**

- Monitoring print required

| Code | kg | |
|---|---|---|
| **199 190 083** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Motor current monitoring

**Model:**

- Monitoring print required

| Code | kg | |
|---|---|---|
| **199 190 081** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Position signalization

**Model:**

- Must be used with either the PE25 positioner or the monitoring print

| Code | kg | |
|---|---|---|
| **199 190 084** | 0.020 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Positioner PE25

**Model:**

- Positioner must use position signalization

** galvanic isolated set value inputs
* not galvanic isolated set value inputs

| Voltage | Code | kg | |
|---|---|---|---|
| *24 V= | **199 190 100** | 0.200 | |
| **24 V= | **199 190 101** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Limit switch kit with gold contacts Au

| Voltage | Code | kg | |
|---|---|---|---|
| 250 V ~ 6 A | **199 190 093** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Limit switch kit with inductive switches PNP

| Voltage | Code | kg | |
|---|---|---|---|
| 5-30 V= 0,1 A | **199 190 095** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Limit switch kit with inductive switches NPN

| Voltage | Code | kg | |
|---|---|---|---|
| 5-30 V= 0,1 A | **199 190 096** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Assembly kit for 4 limit switches

| Voltage | Code | kg | |
|---|---|---|---|
| 5-30 V= 0,1 A | **199 190 097** | 0.200 | |

## For electric actuators
## Type EA 21/ EA 31/ EA 42
## Limit switch kit with mechanical limit switches
## Middle position

| Voltage | Code | kg | |
|---|---|---|---|
| 4-30 V= 1-100 mA | **199 190 094** | 0.200 | |

# Pneumatic rotary actuators PA

## Pneumatic actuator type PA 11 / PA 21
## Fail safe to close (FC)

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 FC | 10 - 25 | **198 150 127** | 0.743 |
| PA 21 FC | 32 - 50 | **198 150 130** | 1.419 |

## Pneumatic actuator type PA 11 / PA 21
## Fail safe to open (FO)

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 FO | 10 - 25 | **198 150 128** | 0.743 |
| PA 21 FO | 32 - 50 | **198 150 131** | 1.419 |

## Pneumatic actuator type PA 11 / PA 21
## Double action (DA)

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 DA | 10 - 25 | **198 150 129** | 0.553 |
| PA 21 DA | 32 - 50 | **198 150 132** | 0.995 |

## Pneumatic actuator type PA 11 / PA 21
## Fail safe to close (FC) with stroke limiter

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 FC | 10 - 25 | **198 150 144** | 0.837 |
| PA 21 FC | 32 - 50 | **198 150 147** | 1.609 |

## Pneumatic actuator type PA 11 / PA 21
## Fail safe to open (FO) with stroke limiter

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 FO | 10 - 25 | **198 150 145** | 0.837 |
| PA 21 FO | 32 - 50 | **198 150 148** | 1.609 |

## Pneumatic actuator type PA 11 / PA 21
## Double action (DA) with stroke limiter

| Type | DN-DN [mm] | Code | kg |
|---|---|---|---|
| PA 11 DA | 10 - 25 | **198 150 146** | 0.647 |
| PA 21 DA | 32 - 50 | **198 150 149** | 1.185 |

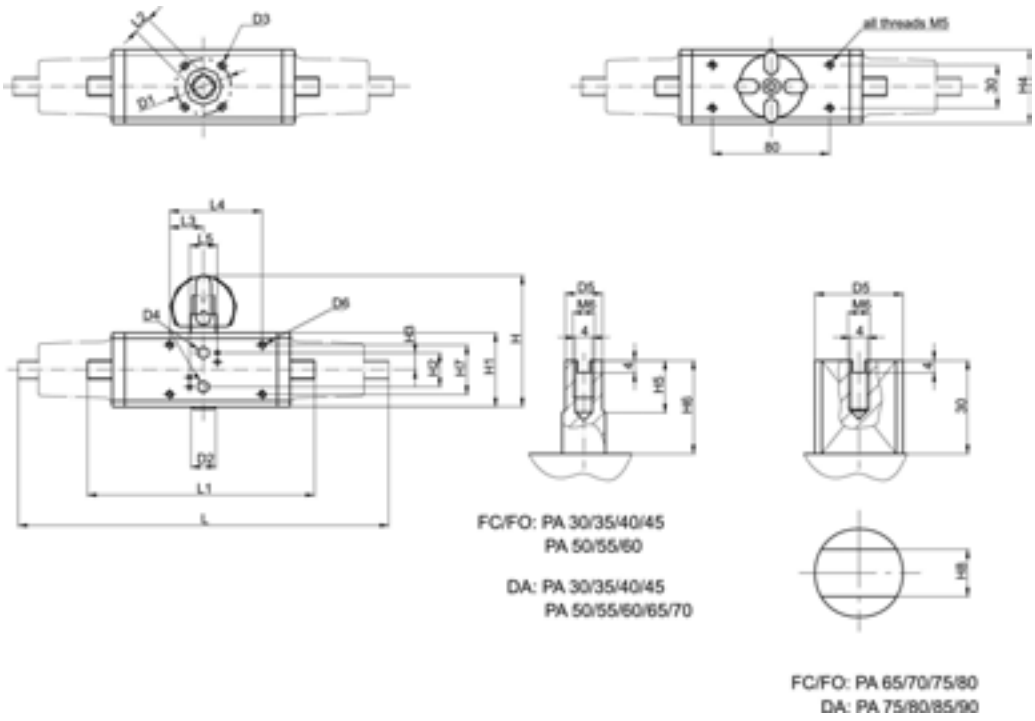
# Pneumatic actuator type PA 30 PA 90
# Fail safe to close / Fail safe to open (FC/FO)

Other versions on request

| Type | hard anodized Code | nickel plated Code | hard anodized with stroke limiter Code | Only for Butterfly valve type 240 Code |
|---|---|---|---|---|
| PA 30 FC/FO | **198 800 757** | **198 800 034** | **-** | **-** |
| PA 30 FO | **-** | **-** | **-** | **198 811 025** |
| PA 35 FC/FO | **198 800 037** | **198 800 052** | **-** | **-** |
| PA 35 FO | **-** | **-** | **-** | **198 811 026** |
| PA 40 FC/FO | **198 800 728** | **198 800 004** | **198 800 017** | **-** |
| PA 40 FO | **-** | **-** | **-** | **198 811 027** |
| PA 45 FC/FO | **198 800 039** | **198 800 054** | **-** | **-** |
| PA 45 FO | **-** | **-** | **-** | **198 811 028** |
| PA 50 FC/FO | **198 800 729** | **198 800 005** | **198 800 018** | **-** |
| PA 50 FO | **-** | **-** | **-** | **198 811 029** |
| PA 55 FC/FO | **198 800 041** | **198 800 056** | **-** | **-** |
| PA 55 FO | **-** | **-** | **-** | **198 811 030** |
| PA 60 FC/FO | **198 800 730** | **198 800 006** | **198 800 019** | **-** |
| PA 65 FC/FO | **198 800 043** | **198 800 058** | **-** | **-** |
| PA 70 FC/FO | **198 800 731** | **198 800 007** | **198 800 020** | **-** |
| PA 75 FC/FO | **198 800 045** | **198 800 060** | **-** | **-** |
| PA 80 FC/FO | **198 800 047** | **198 800 062** | **-** | **-** |

| Type | | D1 [mm] | D2 [mm] | D3[M] [mm] | D4 [inch] | D5 [mm] | L [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PA 30 FC/FO | F04 | 42 | 30 | M5x9 | ⅛ | 10 | 276 | 11 | 35 | 70 | 32 | 102 | 70 |
| PA 30 FO | F04 | 42 | 30 | M5x9 | ⅛ | 10 | 276 | 11 | 35 | 70 | 32 | 102 | 70 |
| PA 35 FC/FO | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 326 | 14 | 35 | 70 | 32 | 111 | 78 |
| PA 35 FO | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 326 | 14 | 35 | 70 | 32 | 111 | 78 |
| PA 40 FC/FO | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 370 | 14 | 35 | 70 | 32 | 129 | 86 |
| PA 40 FO | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 370 | 14 | 35 | 70 | 32 | 129 | 86 |
| PA 45 FC/FO | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 411 | 17 | 35 | 70 | 32 | 139 | 96 |
| PA 45 FO | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 411 | 17 | 35 | 70 | 32 | 139 | 96 |
| PA 50 FC/FO | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 423 | 17 | 35 | 70 | 32 | 149 | 106 |
| PA 50 FO | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 423 | 17 | 35 | 70 | 32 | 149 | 106 |
| PA 55 FC/FO | F10 | 102 | 70 | M10x17 | ⅛ | 19 | 452 | 22 | 35 | 70 | 32 | 161 | 118 |
| PA 55 FO | F10 | 102 | 70 | M10x17 | ⅛ | 19 | 452 | 22 | 35 | 70 | 32 | 161 | 118 |
| PA 60 FC/FO | F10 | 102 | 70 | M10x17 | ⅛ | 19 | 503 | 22 | 35 | 70 | 32 | 173 | 130 |
| PA 65 FC/FO | F12 | 125 | 85 | M12x21 | ¼ | | 648 | 27 | | | 32 | 191 | 148 |
| PA 70 FC/FO | F12 | 125 | 85 | M12x21 | ¼ | | 663 | 27 | | | 32 | 196 | 153 |
| PA 75 FC/FO | F14 | 140 | 100 | M16x25 | ¼ | | 824 | 36 | | | 32 | 229 | 186 |
| PA 80 FC/FO | F14 | 140 | 100 | M16x25 | ¼ | | 918 | 36 | | | 32 | 241 | 198 |

| Type | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H8 [mm] |
|---|---|---|---|---|---|---|---|
| PA 30 FC/FO | 21 | 18 | 65 | 13 | 20 | 36 | |
| PA 30 FO | 21 | 18 | 65 | 13 | 20 | 36 | |
| PA 35 FC/FO | 21 | 18 | 72 | 13 | 20 | 36 | |
| PA 35 FO | 21 | 18 | 72 | 13 | 20 | 36 | |
| PA 40 FC/FO | 25 | 21 | 80 | 13 | 30 | 36 | |
| PA 40 FO | 25 | 21 | 80 | 13 | 30 | 36 | |
| PA 45 FC/FO | 25 | 21 | 90 | 16 | 30 | 36 | |
| PA 45 FO | 25 | 21 | 90 | 16 | 30 | 36 | |
| PA 50 FC/FO | 25 | 26 | 100 | 17 | 30 | 36 | |
| PA 50 FO | 25 | 26 | 100 | 17 | 30 | 36 | |
| PA 55 FC/FO | 25 | 25 | 112 | 19 | 30 | 36 | |
| PA 55 FO | 25 | 25 | 112 | 19 | 30 | 36 | |
| PA 60 FC/FO | 25 | 32 | 124 | 19 | 30 | 36 | |
| PA 65 FC/FO | 24 | 34 | 137 | | | | 22 |
| PA 70 FC/FO | 24 | 38 | 145 | | | | 24 |
| PA 75 FC/FO | 24 | 43 | 166 | | | | 27 |
| PA 80 FC/FO | 24 | 44 | 180 | | | | 32 |



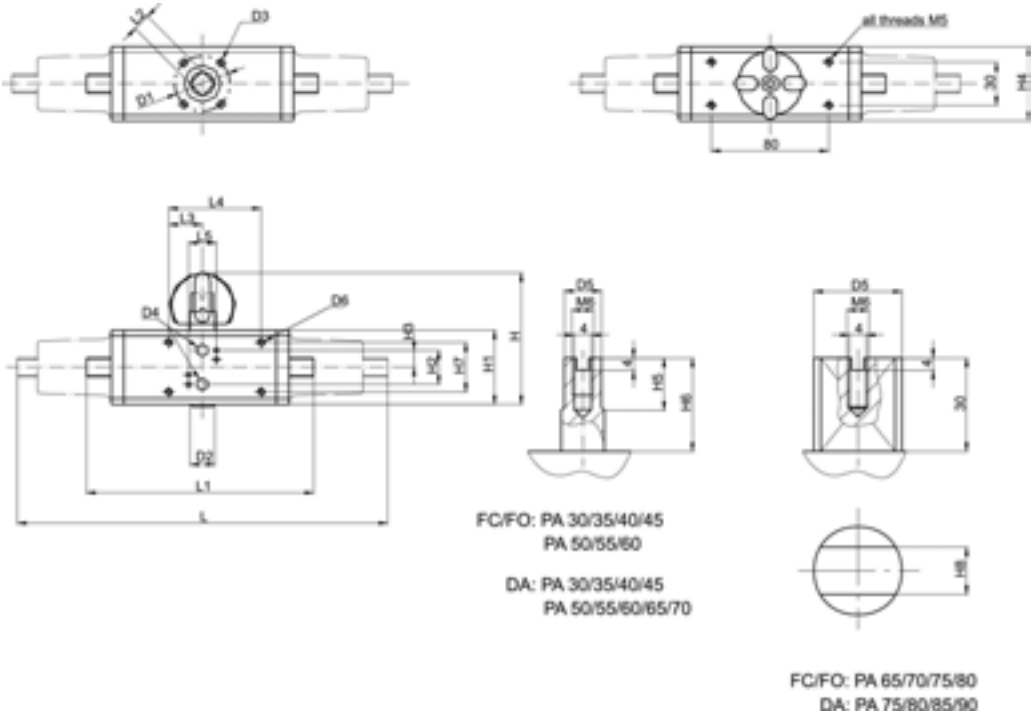
# Pneumatic actuator type PA 30 PA 90
# Double acting (DA)

Other versions on request

| Type | hard anodized Code | kg |
|---|---|---|
| PA 30 DA | **198 800 737** | 2.400 |
| PA 35 DA | **198 800 758** | 1.250 |
| PA 40 DA | **198 800 732** | 1.731 |
| PA 45 DA | **198 800 040** | 1.850 |
| PA 50 DA | **198 800 733** | 2.984 |
| PA 55 DA | **198 800 042** | 3.400 |
| PA 60 DA | **198 800 734** | 6.040 |
| PA 65 DA | **198 800 044** | 7.200 |
| PA 70 DA | **198 800 735** | 10.300 |
| PA 75 DA | **198 800 046** | 12.000 |
| PA 80 DA | **198 800 048** | 14.000 |
| PA 85 DA | **198 800 050** | 19.700 |
| PA 90 DA | **198 800 051** | 25.400 |

| Type | | D1 [mm] | D2 [mm] | D3[M] [mm] | D4 [inch] | D5 [mm] | L1 [mm] | L2 [mm] | L3 [mm] | L4 [mm] | L5 [mm] | H [mm] | H1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PA 30 DA | F03 | 36 | 25 | M5x9 | ⅛ | 9 | 177 | 9 | 35 | 70 | | 92 | 60 |
| PA 35 DA | F04 | 42 | 30 | M5x9 | ⅛ | 10 | 190 | 11 | 35 | 70 | | 98 | 66 |
| PA 40 DA | F04 | 42 | 30 | M5x9 | ⅛ | 10 | 198 | 11 | 35 | 70 | | 102 | 70 |
| PA 45 DA | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 235 | 14 | 35 | 70 | | 111 | 78 |
| PA 50 DA | F05 | 50 | 35 | M6x11 | ⅛ | 12 | 250 | 14 | 35 | 70 | | 129 | 86 |
| PA 55 DA | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 279 | 17 | 35 | 70 | | 139 | 96 |
| PA 60 DA | F07 | 70 | 55 | M8x15 | ⅛ | 15 | 341 | 17 | 35 | 70 | | 149 | 106 |
| PA 65 DA | F10 | 102 | 70 | M10x17 | ⅛ | 19 | 350 | 22 | 35 | 70 | | 161 | 118 |
| PA 70 DA | F10 | 102 | 70 | M10x17 | ⅛ | 19 | 381 | 22 | 35 | 70 | | 173 | 130 |
| PA 75 DA | F12 | 125 | 85 | M12x21 | ¼ | | 416 | 27 | | | 32 | 191 | 148 |
| PA 80 DA | F12 | 125 | 85 | M12x21 | ¼ | | 466 | 27 | | | 32 | 197 | 153 |
| PA 85 DA | F14 | 140 | 100 | M16x25 | ¼ | | 555 | 36 | | | 32 | 229 | 186 |
| PA 90 DA | F14 | 140 | 100 | M16x25 | ¼ | | 581 | 36 | | | 32 | 241 | 198 |

| Type | H2 [mm] | H3 [mm] | H4 [mm] | H5 [mm] | H6 [mm] | H7 [mm] | H8 [mm] |
|---|---|---|---|---|---|---|---|
| PA 30 DA | 25 | 12 | 55 | 10 | 20 | 36 | |
| PA 35 DA | 25 | 13 | 60 | 13 | 20 | 36 | |
| PA 40 DA | 21 | 18 | 65 | 13 | 20 | 36 | |
| PA 45 DA | 21 | 18 | 72 | 13 | 20 | 36 | |
| PA 50 DA | 25 | 21 | 80 | 13 | 30 | 36 | |
| PA 55 DA | 25 | 21 | 90 | 16 | 30 | 36 | |
| PA 60 DA | 25 | 26 | 100 | 17 | 30 | 36 | |
| PA 65 DA | 25 | 25 | 112 | 19 | 30 | 36 | |
| PA 70 DA | 25 | 32 | 124 | 19 | 30 | 36 | |
| PA 75 DA | 24 | 34 | 137 | | | | 22 |
| PA 80 DA | 24 | 38 | 145 | | | | 24 |
| PA 85 DA | 24 | 43 | 166 | | | | 27 |
| PA 90 DA | 24 | 44 | 180 | | | | 32 |



## Position Indicator for PA11 - PA90
## Namur mounting flange

| No | Code | kg | |
|---|---|---|---|
| 3 | **199 190 281** | 0.312 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 auxiliary switches

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 250 V ~/10 A | **199 190 282** | 0.530 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 inductive auxiliary switches NPN with luminous diode

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 10...30 V/ 0.1 A | **199 190 283** | 0.530 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 inductive auxiliary switches PNP With luminous diode

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 10...30 V/ 0.1 A | **199 190 284** | 0.530 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 inductive auxiliary switches Namur Eexi (intrinsically safe)

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 5-15 V | **199 190 285** | 0.530 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 auxiliary switches Eexd

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 250 V ~/5 A | **199 190 286** | 0.600 | |

## Position Indicator for PA11 - PA90
## Limit switch box with 2 auxiliary switches With gold contact

- Including namur mounting flange

| Voltage | Code | kg | |
|---|---|---|---|
| 30 V =/ 1-100 mA | **199 190 287** | 0.530 | |

# Accessories for pneumatic rotary actuators

## For pneumatic actuators type PA 11 - PA 90
## Namur connecting plate

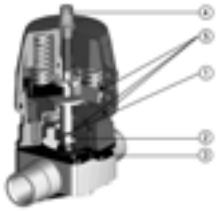
- PA30 - PA55

| Code | kg | |
|---|---|---|
| **199 190 275** | 0.100 | |

## For pneumatic actuators type PA 11 - PA 90
## Namur mounting flange

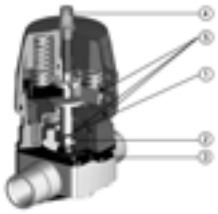
| No | Code | kg | |
|---|---|---|---|
| 3 | **199 190 281** | 0.312 | |

# Pneumatic stroke actuators



## Accesories and spare parts for DIASTAR
## Compression set complete
## Consisting of compressor and diaphragm holder

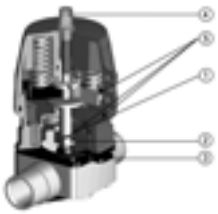
| d [mm] | DN [mm] | EPDM Code | PTFE/EPDM Code | kg |
|---|---|---|---|---|
| 20 | 15 | **198 000 320** | **198 000 326** | 0.045 |
| 25 | 20 | **198 000 321** | **198 000 327** | 0.048 |
| 32 | 25 | **198 000 322** | **198 000 328** | 0.047 |
| 40 | 32 | **198 000 323** | **198 000 329** | 0.055 |
| 50 | 40 | **198 000 324** | **198 000 330** | 0.072 |
| 63 | 50 | **198 000 325** | **198 000 331** | 0.064 |
| 75 | 65 | **198 000 268** | **198 000 269** | 0.135 |
| 90 | 80 | **198 000 270** | **198 000 271** | 0.350 |
| 110 | 100 | **198 000 272** | **198 000 273** | 0.500 |
| 160 | 150 | **198 000 274** | **198 000 275** | 1.466 |



## Accesories and spare parts for DIASTAR
## Diaphragms for DIASTAR

| d [mm] | DN [mm] | EPDM Code | FPM Code | NBR Code | CSM Code | PTFE/EPDM Code |
|---|---|---|---|---|---|---|
| 20 | 15 | **161 481 022** | **161 484 152** | **161 311 710** | **161 311 728** | **161 311 698** |
| 25 | 20 | **161 481 023** | **161 484 153** | **161 311 711** | **161 311 729** | **161 311 699** |
| 32 | 25 | **161 481 024** | **161 484 154** | **161 311 712** | **161 311 730** | **161 311 700** |
| 40 | 32 | **161 481 025** | **161 484 155** | **161 311 713** | **161 311 731** | **161 311 701** |
| 50 | 40 | **161 481 026** | **161 484 156** | **161 311 714** | **161 311 732** | **161 311 702** |
| 63 | 50 | **161 481 027** | **161 484 157** | **161 311 715** | **161 311 733** | **161 311 703** |
| 75 | 65 | **161 481 028** | **161 484 158** | **161 480 231** | **161 480 237** | **161 480 240** |
| 90 | 80 | **161 481 029** | **161 484 159** | **161 480 232** | **161 480 238** | **161 480 241** |
| 110 | 100 | **161 481 030** | **161 484 160** | **161 480 233** | **161 480 239** | **161 480 242** |
| 160 | 150 | **161 482 754** | **161 484 226** | **161 482 751** | **161 482 757** | **161 482 760** |
| 160 | 150 | **-** | **-** | **-** | **-** | **-** |

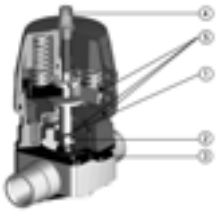
| d [mm] | DN [mm] | PTFE/FPM Code | PTFE/EPDM HP Code | kg |
|---|---|---|---|---|
| 20 | 15 | **161 481 926** | **161 484 452** | 0.025 |
| 25 | 20 | **161 481 927** | **161 484 453** | 0.035 |
| 32 | 25 | **161 481 928** | **161 484 454** | 0.060 |
| 40 | 32 | **161 481 929** | **161 484 455** | 0.083 |
| 50 | 40 | **161 481 930** | **161 484 456** | 0.106 |
| 63 | 50 | **161 481 931** | **161 484 457** | 0.150 |
| 75 | 65 | **161 481 932** | **161 484 458** | 0.252 |
| 90 | 80 | **-** | **161 484 459** | 0.390 |
| 110 | 100 | **-** | **161 484 460** | 0.630 |
| 160 | 150 | **-** | **-** | 1.421 |
| 160 | 150 | **-** | **161 482 760** | 1.421 |



## Accesories and spare parts for DIASTAR
## Indicator cap for DIASTAR

| d | DN | Serie 028 FC | Serie 025 FC | Serie 025 FO | Serie 025 DA |
|---|---|---|---|---|---|
| 20 | 15 | 198 806 639 | 198 806 639 | 198 806 639 | 198 806 639 |
| 25 | 20 | 198 806 639 | 198 806 639 | 198 806 639 | 198 806 639 |
| 32 | 25 | 198 806 639 | 198 806 640 | 198 806 639 | 198 806 639 |
| 40 | 32 | 198 806 640 | 198 806 640 | 198 806 640 | 198 806 640 |
| 50 | 40 | 198 806 640 | 198 806 640 | 198 806 640 | 198 806 640 |
| 63 | 50 | 198 806 640 | 198 806 640 | 198 806 640 | 198 806 640 |
| 75 | 65 | - | 198 806 376 | 198 806 376 | 198 806 376 |
| 90 | 80 | - | 198 806 376 | 198 806 376 | 198 806 376 |
| 110 | 100 | - | 198 806 376 | 198 806 376 | 198 806 376 |
| 160 | 150 | - | 198 806 376 | 198 806 376 | 198 806 376 |

| Pos | Code | Code | Code | kg | |
|---|---|---|---|---|---|
| 4 | **198 806 639** | **198 806 640** | **198 806 376** | 0.020 | |



## Accesories and spare parts for DIASTAR
## Seal set complete

| Pos | DN | Serie 028 FC 025 FO/DA | Serie 025-FC |
|---|---|---|---|
| 5 | 15 | 198 000 332 | 198 000 333 |
| 5 | 20 | 198 000 333 | 198 000 333 |
| 5 | 25 | 198 000 333 | 198 000 334 |
| 5 | 32 | 198 000 334 | 198 000 335 |
| 5 | 40 | 198 000 335 | 198 000 336 |
| 5 | 50 | 198 000 335 | 198 000 336 |

| Pos | Code | kg | |
|---|---|---|---|
| 5 | **198 000 332** | 0.005 | |
| 5 | **198 000 333** | 0.006 | |
| 5 | **198 000 334** | 0.005 | |
| 5 | **198 000 335** | 0.004 | |
| 5 | **198 000 336** | 0.005 | |

## Pneumatic actuator DIASTAR
## Series 028-FC

| d [mm] | DN [mm] | Inch | Size | for EPDM Code | for PTFE/EPDM Code | kg | |
|---|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 1 | **198 150 091** | **198 150 097** | 0.252 | |
| 25 | 20 | ¾ | 2 | **198 150 126** | **-** | 1.000 | |
| 25 | 20 | ¾ | 2 | **-** | **198 150 126** | 1.000 | |
| 32 | 25 | 1 | 2 | **198 150 093** | **198 150 098** | 1.000 | |
| 40 | 32 | 1 ¼ | 3 | **198 150 094** | **198 150 124** | 1.380 | |
| 50 | 40 | 1 ½ | 4 | **198 150 095** | **198 150 099** | 2.100 | |
| 63 | 50 | 2 | 4 | **198 150 125** | **-** | 3.000 | |
| 63 | 50 | 2 | 4 | **-** | **198 150 125** | 3.000 | |

# Pneumatic actuator DIASTAR Series 025-FC

| d [mm] | DN [mm] | Inch | Size | for EPDM Code | for PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | ½ | 2 | **198 150 087** | **198 150 962** | 1.298 |
| 25 | 20 | ¾ | 2 | **198 150 963** | **-** | 0.676 |
| 25 | 20 | ¾ | 2 | **-** | **198 150 963** | 0.676 |
| 32 | 25 | 1 | 3 | **198 150 088** | **198 150 964** | 1.995 |
| 40 | 32 | 1 ¼ | 4 | **198 150 965** | **-** | 2.100 |
| 40 | 32 | 1 ¼ | 4 | **-** | **198 150 965** | 2.100 |
| 50 | 40 | 1 ½ | 5 | **198 150 089** | **198 150 966** | 3.790 |
| 63 | 50 | 2 | 5 | **198 150 090** | **198 150 967** | 4.040 |
| 75 | 65 | 2 ½ | | **198 150 736** | **-** | 3.700 |
| 75 | 65 | 2 ½ | | **-** | **198 150 736** | 3.700 |
| 90 | 80 | 3 | | **198 150 737** | **-** | 3.700 |
| 90 | 80 | 3 | | **-** | **198 150 737** | 3.700 |
| 110 | 100 | 4 | | **198 150 738** | **-** | 3.700 |
| 110 | 100 | 4 | | **-** | **198 150 738** | 3.700 |
| 160 | 150 | 6 | | **198 150 739** | **-** | 21.500 |

# Pneumatic actuator DIASTAR Series 025-FO

| d [mm] | DN [mm] | Inch | Size | for PTFE/EPDM and EPDM Code | kg |
|---|---|---|---|---|---|
| 20 | 15 | ½ | 1 | **198 150 105** | 0.900 |
| 25 | 20 | ¾ | 2 | **198 150 969** | 0.492 |
| 32 | 25 | 1 | 2 | **198 150 106** | 0.652 |
| 40 | 32 | 1 ¼ | 3 | **198 150 107** | 1.380 |
| 50 | 40 | 1 ½ | 4 | **198 150 108** | 2.300 |
| 63 | 50 | 2 | 4 | **198 150 109** | 2.100 |
| 75 | 65 | 2 ½ | | **198 150 746** | 3.700 |
| 90 | 80 | 3 | | **198 150 747** | 3.700 |
| 110 | 100 | 4 | | **198 150 748** | 3.700 |
| 160 | 150 | 6 | | **198 150 749** | 3.700 |

# Pneumatic actuator DIASTAR Series 025-DA

| d [mm] | DN [mm] | Inch | Size | for EPDM Code | for PTFE/EPDM Code | kg |
|---|---|---|---|---|---|---|
| 20 | 15 | 1/2 | 1 | **198 150 100** | **198 150 100** | 0.252 |
| 25 | 20 | 3/4 | 2 | **198 150 975** | **198 150 975** | 0.406 |
| 32 | 25 | 1 | 2 | **198 150 101** | **198 150 101** | 0.652 |
| 40 | 32 | 11/4 | 3 | **198 150 102** | **198 150 102** | 1.380 |
| 50 | 40 | 11/2 | 4 | **198 150 103** | **198 150 103** | 2.000 |
| 63 | 50 | 2 | 4 | **198 150 104** | **198 150 104** | 2.100 |
| 75 | 65 | 21/2 | | **198 150 756** | **198 150 756** | 10.000 |
| 90 | 80 | 3 | | **198 150 757** | **198 150 757** | 3.700 |
| 110 | 100 | 4 | | **198 150 758** | **198 150 758** | 3.700 |
| 160 | 150 | 6 | | **198 150 759** | **198 150 759** | 3.700 |

## Diaseptic DIASTAR
## Type 025 full plastic actuator PPS GF 40

| DN [mm] | FC Code | FO Code | DA Code | kg |
|---|---|---|---|---|
| 15 | **198 151 126** | **198 151 136** | **198 151 142** | 0.286 |
| 20 | **198 151 127** | **198 151 137** | **198 151 143** | 0.590 |
| 25 | **198 151 128** | **198 151 138** | **-** | 0.680 |
| 32 | **198 151 129** | **198 151 139** | **198 151 145** | 1.160 |
| 40 | **198 151 130** | **198 151 140** | **198 151 146** | 2.103 |
| 50 | **198 151 131** | **198 151 141** | **198 151 147** | 2.119 |

## Diaseptic DIASTAR
## Type 025 with stainless steel intemediate part

| DN [mm] | FC size 1 Code | FC size 2 Code | FO Code | DA Code | kg |
|---|---|---|---|---|---|
| 8 | **198 151 148** | **-** | **198 151 156** | **198 151 163** | 0.484 |
| 15 | **198 151 149** | **198 151 150** | **198 151 157** | **198 151 164** | 0.545 |
| 20 | **198 151 151** | **-** | **198 151 158** | **198 151 165** | 1.148 |
| 25 | **198 151 152** | **-** | **198 151 159** | **198 151 166** | 2.138 |
| 40 | **198 151 154** | **-** | **198 151 161** | **198 151 168** | 5.560 |
| 50 | **198 151 155** | **-** | **198 151 162** | **198 151 169** | 6.353 |

## Diaseptic DIASTAR
## Diaseptic type 028 plastic acuator PPS GF 40

| DN [mm] | FC Code | kg |
|---|---|---|
| 15 | **198 151 120** | 0.352 |
| 20 | **198 151 121** | 0.730 |
| 25 | **198 151 122** | 0.837 |
| 32 | **198 151 123** | 1.580 |
| 40 | **198 151 124** | 2.663 |
| 50 | **198 151 125** | 2.959 |

# Accessories for pneumatic stroke actuators

## Position Indicator for DIASTAR
## Electric position indicator with 2 auxiliary switches
## AG Ni

| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-1 | 250 V~ 10 A | **199 190 305** | 0.300 |
| 65 - 150 | ER 53-1 | 250 V~ 10 A | **199 190 293** | 0.650 |

## Position Indicator for DIASTAR
## Electric position indicator with 2 auxiliary switches
## With gold contact

- Connection: Plug

| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-2 | 4-30 V= 1-100 mA | **199 190 306** | 0.300 |
| 65 - 150 | ER 53-2 | 4-30 V= 1-100 mA | **199 190 297** | 0.650 |

## Position Indicator for DIASTAR
## Electric position indicator with 2 inductive switches
## NPN

- Connection: Plug

| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-3 | 5-30 V= 100 mA | **199 190 307** | 0.396 |
| 65 - 150 | ER 53-3 | 10-30 V= 100 mA | **199 190 294** | 0.650 |

## Position Indicator for DIASTAR
## Electric position indicator with 2 inductive switches PNP

- Connection: Plug

| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-4 | 5-30 V= 100 mA | **199 190 308** | 0.396 |
| 65 - 150 | ER 53-4 | 10-30 V= 100 mA | **199 190 295** | 0.650 |

## Position Indicator for DIASTAR
## Electric position indicator with 2 inductive switches
## Namur Eexi (intrinsically safe)

- Connection: Plug

| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-5 | 8 V= | **199 190 309** | 0.496 |
| 65 - 150 | ER 53-5 | 8 V= | **199 190 296** | 0.650 |

## Position Indicator for DIASTAR
## Electric position indicator with 2 auxiliary switches Eexd

- Connection: Cable, 2 m

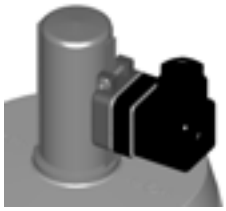
| DN-DN [mm] | Type | Voltage | Code | kg |
|---|---|---|---|---|
| 15 - 50 | ER 52-6 | 250 V ~ 5 A | **199 190 405** | 0.650 |
| 65 - 150 | ER 53-6 | 250 V ~ 5 A | **199 190 298** | 0.650 |

## Position Indicator for DIASTAR
## Adapter complete

for combination electric position indicator / stroke limiter / manual override

| DN | type | Series 028-FC | Series 025-FC | Series 025-FO/DA |
|---|---|---|---|---|
| 15 | ER 52 | 199 190 387 | 199 190 387 | 199 190 387 |
| 20 | ER 52 | 199 190 387 | 199 190 387 | 199 190 387 |
| 25 | ER 52 | 199 190 387 | 199 190 388 | 199 190 387 |
| 32 | ER 52 | 199 190 388 | 199 190 389 | 199 190 388 |
| 40 | ER 52 | 199 190 389 | 199 190 389 | 199 190 389 |
| 50 | ER 52 | 199 190 389 | 199 190 389 | 199 190 389 |
| 65-150 | ER 53 | - | 199 190 310 | 199 190 310 |

| Adapter Code | kg |
|---|---|
| **199 190 387** | 0.062 |
| **199 190 388** | 0.061 |
| **199 190 389** | 0.068 |
| **199 190 310** | 0.160 |



## Position Indicator for DIASTAR
## Electric position indicator with reed contact
## Type ER-55 for Diastar DN 15-150

for one position open or closed
furder position indicator with limit contact (198 804 875)
Connection: Plug
Voltage: 250V ~ 200 mA

| DN | type | series 028-FC | series 025-FC / FO / DA |
|---|---|---|---|
| 15 | ER 55-1 | 199 190 462 | 199 190 462 |
| 20 | ER 55-1 | 199 190 462 | 199 190 462 |
| 25 | ER 55-1 | 199 190 462 | 199 190 462 |
| 32 | ER 55-1 | 199 190 462 | 199 190 462 |
| 40 | ER 55-1 | 199 190 462 | 199 190 462 |
| 50 | ER 55-1 | 199 190 462 | 199 190 462 |
| 65 | ER 55-2 | - | 199 190 464 |
| 80 | ER 55-2 | - | 199 190 464 |
| 100 | ER 55-2 | - | 199 190 464 |
| 150 | ER 55-2 | - | 199 190 464 |

| DN-DN [mm] | Diastar 025 / 028 Code | type Code | kg | |
|---|---|---|---|---|
| 15 - 50 | **199 190 462** | **ER 55-1** | 0.124 | |
| 65 - 150 | **199 190 464** | **ER 55-2** | 0.130 | |

## Position Indicator for DIASTAR
## Limit contact to ER55

| Code | kg | |
|---|---|---|
| **198 804 875** | 0.046 | |

## Digital electro-pneumatic positioner
## Type DSR 100 / 101 / 201

- Other versions and accessories on request
- For actuators function FC
- For actuators function FO only possible by assembly in the factory

| No | Type Diastar DN 15-50 FC DSR 100 Code | Type Diastar DN 65-150 FC DSR 101 Code | pneumatic rotary actuator DSR 201 Code | kg | |
|---|---|---|---|---|---|
| 1 | **199 190 410** | **199 190 411** | **199 190 412** | 0.850 | |

## Accessories for digital electro-pneumatic positioner
## Attachment kit to type DSR 100
## With optical position indicator for Diastar DN 15-50

| Pos | DN | Series 028 - FC | Series 025 - FC | Series 025 - FO |
|---|---|---|---|---|
| 2 | 15 | - | 199 190 417 | - |
| 2 | 20 | 199 190 417 | 199 190 417 | 199 190 417 |
| 2 | 25 | 199 190 417 | 199 190 418 | 199 190 417 |
| 2 | 32 | 199 190 418 | 199 190 418 | 199 190 418 |
| 2 | 40 | 199 190 418 | 199 190 418 | 199 190 418 |
| 2 | 50 | 199 190 418 | 199 190 418 | 199 190 418 |

| Part No. | Attachment kit Code | kg | |
|---|---|---|---|
| 2 | **199 190 417** | 0.200 | |
| 2 / 3 | **199 190 418** | 0.210 | |

## Accessories for digital electro-pneumatic positioner
## Attachment kit to type DSR 100
## Without optical position indicator for Diastar DN 15-50

| Pos | DN | Series 028 - FC | Series 025 - FC | Series 025 - FO |
|---|---|---|---|---|
| 3 | 15 | - | 199 190 414 | - |
| 3 | 20 | 199 190 414 | 199 190 414 | 199 190 414 |
| 3 | 25 | 199 190 414 | 199 190 415 | 199 190 414 |
| 3 | 32 | 199 190 415 | 199 190 415 | 199 190 415 |
| 3 | 40 | 199 190 415 | 199 190 415 | 199 190 415 |
| 3 | 50 | 199 190 415 | 199 190 415 | 199 190 415 |

| No | Attachment kit Code | kg | |
|---|---|---|---|
| 3 | **199 190 414** | 0.120 | |
| 3 | **199 190 415** | 0.127 | |

## Accessories for digital electro-pneumatic positioner
## Attachment kit to type DSR 101
## For Diastar DN 65-150

| Part No. | with optical position indicator Code | without optical position indicator Code | kg | |
|---|---|---|---|---|
| 2 | **199 190 419** | - | 0.225 | |
| 2 / 3 | - | **199 190 418** | 0.210 | |

# Stroke Limiter for DIASTAR
# Min./ max. stroke limiter / manual override

| DN | Series 028-FC | Series 025-FC | Series 025-FO/DA |
|---|---|---|---|
| 15 | 199 190 381 | 199 190 382 | 199 190 381 |
| 20 | 199 190 382 | 199 190 382 | 199 190 382 |
| 25 | 199 190 382 | 199 190 383 | 199 190 382 |
| 32 | 199 190 383 | 199 190 384 | 199 190 383 |
| 40 | 199 190 384 | 199 190 385 | 199 190 384 |
| 50 | 199 190 384 | 199 190 385 | 199 190 384 |
| 65-80 | | 199 190 318 | 199 190 318 |
| *100-150 | | 199 190 319 | 199 190 319 |

| Stroke limiter Code | kg |
|---|---|
| **199 190 381** | 0.053 |
| **199 190 382** | 0.068 |
| **199 190 383** | 0.120 |
| **199 190 384** | 0.150 |
| **199 190 385** | 0.170 |
| **199 190 318** | 0.500 |
| **199 190 319** | 0.500 |

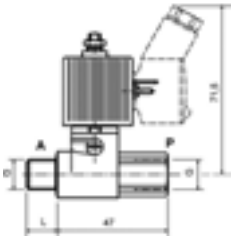
# Pilot valves

## Solenoid pilot valve type PV 94
## Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



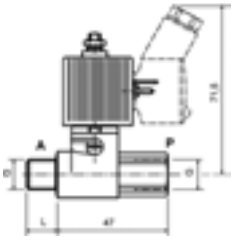
| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | G 1/8 | G 1/8 | 10 | 48 | **199 190 498** | 0.135 | |
| 24 V, 50-60 Hz | 1.2 | G 1/8 | G 1/8 | 10 | 48 | **199 190 499** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | G 1/8 | G 1/8 | 10 | 48 | **199 190 500** | 0.135 | |
| 230 V, 50-60 Hz | 1.2 | G 1/8 | G 1/8 | 10 | 48 | **199 190 501** | 0.135 | |

## Solenoid pilot valve type PV 94
## Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



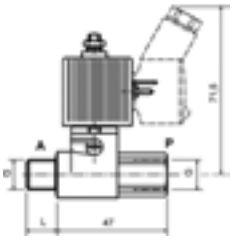
| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | G 1/4 | G 1/8 | 10 | 48 | **199 190 502** | 0.135 | |
| 24 V, 50-60 Hz | 1.2 | G 1/4 | G 1/8 | 10 | 48 | **199 190 503** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | G 1/4 | G 1/8 | 10 | 48 | **199 190 504** | 0.135 | |
| 230 V, 50-60 Hz | 1.2 | G 1/4 | G 1/8 | 10 | 48 | **199 190 505** | 0.135 | |

# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

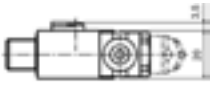


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg |
|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | G 1/4 | G 1/4 | 10 | 48 | **199 190 506** | 0.135 |
| 24 V, 50-60 Hz | 1.2 | G 1/4 | G 1/4 | 10 | 48 | **199 190 507** | 0.135 |
| 110 V, 50-60 Hz | 1.2 | G 1/4 | G 1/4 | 10 | 48 | **199 190 508** | 0.135 |
| 230 V, 50-60 Hz | 1.2 | G 1/4 | G 1/4 | 10 | 48 | **199 190 509** | 0.135 |

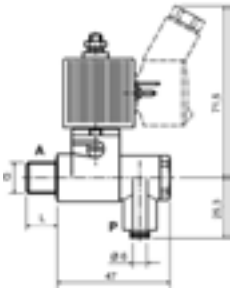
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

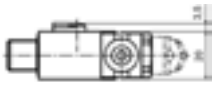


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg |
|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | push-in | G 1/8 | 10 | 48 | **199 190 510** | 0.135 |
| 24 V, 50-60 Hz | 1.2 | push-in | G 1/8 | 10 | 48 | **199 190 511** | 0.135 |
| 110 V, 50-60 Hz | 1.2 | push-in | G 1/8 | 10 | 48 | **199 190 512** | 0.135 |
| 230 V, 50-60 Hz | 1.2 | push-in | G 1/8 | 10 | 48 | **199 190 513** | 0.135 |

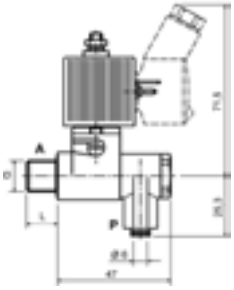
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/4
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

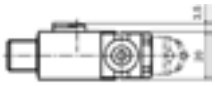


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | push-in | G 1/4 | 10 | 48 | **199 190 514** | 0.135 | |
| 24 V, 50-60 Hz | 1.2 | push-in | G 1/4 | 10 | 48 | **199 190 515** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | push-in | G 1/4 | 10 | 48 | **199 190 516** | 0.135 | |
| 230 V, 50-60 Hz | 1.2 | push-in | G 1/4 | 10 | 48 | **199 190 517** | 0.135 | |

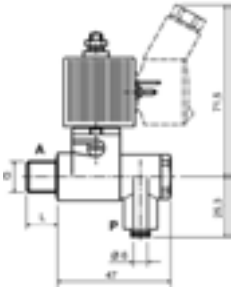
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/8
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

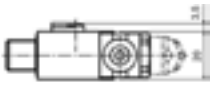


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | NPT 1/8 | G 1/8 | 10 | 48 | **199 190 546** | 0.135 | |
| 24 V AC | 1.2 | NPT 1/8 | G 1/8 | 10 | 48 | **199 190 561** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | NPT 1/8 | G 1/8 | 10 | 48 | **199 190 547** | 0.135 | |

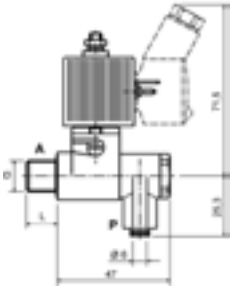
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/4
- Port A actuator connection G 1/8
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

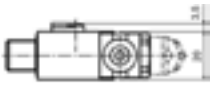


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | NPT 1/4 | G 1/8 | 10 | 48 | **199 190 548** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | NPT 1/4 | G 1/8 | 10 | 48 | **199 190 549** | 0.135 | |

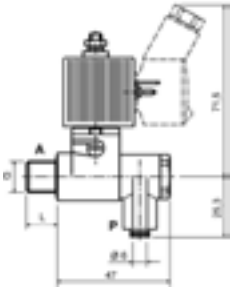
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/4
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

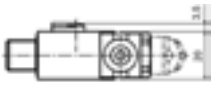


| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | NPT 1/8 | G 1/4 | 10 | 48 | **199 190 550** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | NPT 1/8 | G 1/4 | 10 | 48 | **199 190 551** | 0.135 | |

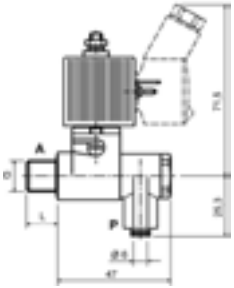
# Solenoid pilot valve type PV 94
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/4
- Port A actuator connection G 1/4
- With connector plug



- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



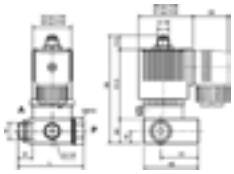
| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.2 | NPT 1/4 | G 1/4 | 10 | 48 | **199 190 552** | 0.135 | |
| 110 V, 50-60 Hz | 1.2 | NPT 1/4 | G 1/4 | 10 | 48 | **199 190 553** | 0.135 | |

# Solenoid pilot valve type PV 94
# Accessory

**Model:**

- Cable plug to DIN EN 175301-803 (DIN 43 650) form C

| Voltage | Version | NBR Code | kg | |
|---|---|---|---|---|
| 0-250 V | no circuitry | **199 190 518** | 0.020 | |
| 0-24 V | with LED | **199 190 519** | 0.020 | |
| 0-24 V | with LED and varistor | **199 190 520** | 0.020 | |
| 0-24 V | with rectifier LED and varistor | **199 190 521** | 0.020 | |
| 200-240 V | with LED | **199 190 522** | 0.020 | |
| 200-240 V | with LED and varistor | **199 190 523** | 0.020 | |



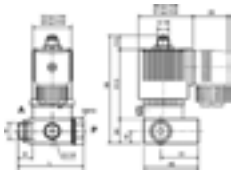
# Solenoid pilot valve type PV 95
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: polyamid
- Power consumption: 11VA at AC inrush; 6VA/2W at AC hold; 2W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.5 | G 1/4 | G 1/8 | 6 | 75 | **199 190 524** | 0.420 | |
| 24 V, 50-60 Hz | 1.5 | G 1/4 | G 1/8 | 6 | 75 | **199 190 525** | 0.420 | |
| 110 V, 50-60 Hz | 1.5 | G 1/4 | G 1/8 | 6 | 75 | **199 190 526** | 0.420 | |
| 230 V, 50-60 Hz | 1.5 | G 1/4 | G 1/8 | 6 | 75 | **199 190 527** | 0.420 | |



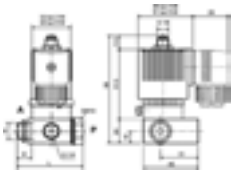
# Solenoid pilot valve type PV 95
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: polyamid
- Power consumption: 11VA at AC inrush; 6VA/2W at AC hold; 2W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 1.5 | G 1/4 | G 1/4 | 6 | 75 | **199 190 528** | 0.420 | |
| 24 V, 50-60 Hz | 1.5 | G 1/4 | G 1/4 | 6 | 75 | **199 190 529** | 0.420 | |
| 110 V, 50-60 Hz | 1.5 | G 1/4 | G 1/4 | 6 | 75 | **199 190 530** | 0.420 | |
| 230 V, 50-60 Hz | 1.5 | G 1/4 | G 1/4 | 6 | 75 | **199 190 531** | 0.420 | |



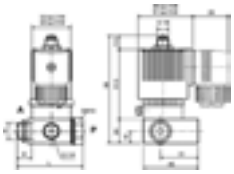
# Solenoid pilot valve type PV 95
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 2.0 | G 1/4 | G 1/8 | 10 | 120 | **199 190 532** | 0.420 | |
| 24 V, 50-60 Hz | 2.0 | G 1/4 | G 1/8 | 10 | 120 | **199 190 533** | 0.420 | |
| 110 V, 50-60 Hz | 2.0 | G 1/4 | G 1/8 | 10 | 120 | **199 190 534** | 0.420 | |
| 230 V, 50-60 Hz | 2.0 | G 1/4 | G 1/8 | 10 | 120 | **199 190 535** | 0.420 | |



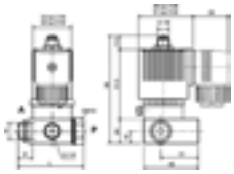
# Solenoid pilot valve type PV 95
# Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg | |
|---|---|---|---|---|---|---|---|---|
| 24 V= | 2.0 | G 1/4 | G 1/4 | 10 | 120 | **199 190 536** | 0.420 | |
| 24 V, 50-60 Hz | 2.0 | G 1/4 | G 1/4 | 10 | 120 | **199 190 537** | 0.420 | |
| 110 V, 50-60 Hz | 2.0 | G 1/4 | G 1/4 | 10 | 120 | **199 190 538** | 0.420 | |
| 230 V, 50-60 Hz | 2.0 | G 1/4 | G 1/4 | 10 | 120 | **199 190 539** | 0.420 | |



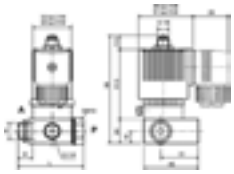
## Solenoid pilot valve type PV 95
## Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/4
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg |
|---|---|---|---|---|---|---|---|
| 24 V= | 1.5 | NPT 1/8 | G 1/4 | 10 | 120 | **199 190 554** | 0.420 |
| 110 V, 50-60 Hz | 1.5 | NPT 1/8 | G 1/4 | 10 | 120 | **199 190 555** | 0.420 |



## Solenoid pilot valve type PV 95
## Pilot valve 3/2 ways

**Model:**

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/4
- Port A actuator connection G 1/4
- With connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

| Voltage | DN [mm] | Compressed air connection P | Actuator connection | PN | kv-value (Δp=1 bar) [l/min] | NBR Code | kg |
|---|---|---|---|---|---|---|---|
| 24 V= | 1.5 | NPT 1/4 | G 1/4 | 10 | 120 | **199 190 556** | 0.420 |
| 110 V, 50-60 Hz | 1.5 | NPT 1/4 | G 1/4 | 10 | 120 | **199 190 557** | 0.420 |

## Solenoid pilot valve type PV 95
## Accessory

**Model:**

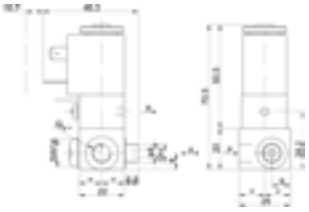
- Cable plug to DIN EN 175301-803 (DIN 43 650) form A

| Voltage | Version | NBR Code | kg |
|---|---|---|---|
| 0-250 V | no circuitry | **199 190 540** | 0.020 |
| 0-24 V | with LED | **199 190 541** | 0.020 |
| 0-24 V | with LED and varistor | **199 190 542** | 0.020 |
| 0-24 V | with rectifier LED and varistor | **199 190 543** | 0.020 |
| 200-240 V | with LED | **199 190 544** | 0.020 |
| 200-240 V | with LED and varistor | **199 190 545** | 0.020 |

# Pilot valve type PV 93 (Direct mounting) Pilot valve 3/2 ways

**Model:**

- Available until approx. October 2006
- Replacement by PV94 / PV95
- For direct installation (incl. base plate and hollow screw)



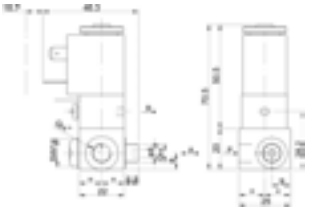
- **to pneumatic actuators FC/FO (Single acting)**
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electric connection with cable plug

| Voltage | DN [mm] | NBR Code | kg | |
|---|---|---|---|---|
| 200/230 V, 50-60 Hz | 2 | **199 190 263** | 0.200 | |
| 100/115 V, 50-60 Hz | 2 | **199 190 264** | 0.200 | |
| 24 V= | 2 | **199 190 265** | 0.200 | |
| 24 V, 50-60 Hz | 2 | **199 190 266** | 0.200 | |
| 48 V = | 2 | **199 190 330** | 0.200 | |
| 48 V, 50-60 Hz | 2 | **199 190 322** | 0.200 | |

# Pilot valve type PV 93 (Direct mounting) Pilot valve 3/2 ways for AS-Interface

**Model:**

- Available until approx. October 2006
- Replacement by PV94 / PV95



- **to pneumatic actuators FC/FO (Single acting)**
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electric connection with cable plug

| Voltage | PN [bar] | DN [mm] | NBR Code | kg | |
|---|---|---|---|---|---|
| 24 V=, 2 Watt | 3.5 - 6.0 | 2 | **199 190 478** | 0.200 | |

# Pilot valve type PV 93
# (For mounting on multiple manifold)
# Pilot valve 3/2 ways

**Model:**

- Available until approx. October 2006
- Replacement by PV94 / PV95
- For mounting onto multiple manifolds

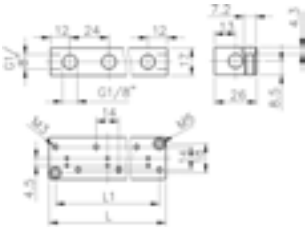
- **to pneumatic actuators FC/FO (Single acting)**
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electrical connection: cable plug

| Voltage | DN [mm] | NBR Code | kg |
|---|---|---|---|
| 200/230 V, 50-60 Hz | 2 | **199 190 267** | 0.085 |
| 100/115 V, 50-60 Hz | 2 | **199 190 268** | 0.085 |
| 24 V= | 2 | **199 190 269** | 0.135 |
| 24 V, 50-60 Hz | 2 | **199 190 270** | 0.085 |
| 48 V= | 2 | **199 190 331** | 0.085 |
| 48 V, 50-60 Hz | 2 | **199 190 323** | 0.085 |

# Accessories to type PV 93
# Multiple manifold for 2 valves

**Model:**

- Available until approx. October 2006

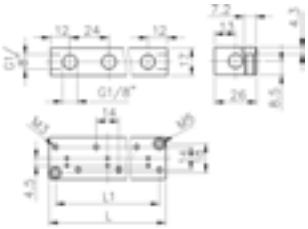


| Code | kg | L [mm] | L1 [mm] |
|---|---|---|---|
| **199 190 487** | 0.100 | 48 | 39 |

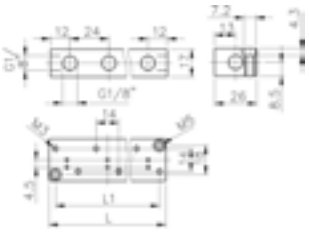
# Accessories to type PV 93
# Multiple manifold for 4 valves

**Model:**

- Available until approx. October 2006



| Code | kg | L [mm] | L1 [mm] |
|---|---|---|---|
| **199 190 271** | 0.100 | 96 | 87 |

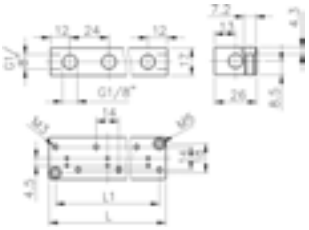


## Accessories to type PV 93
## Multiple manifold for 6 valves

**Model:**

- Available until approx. October 2006

| Code | kg | L [mm] | L1 [mm] | |
|---|---|---|---|---|
| **199 190 272** | 0.150 | 144 | 135 | |



## Accessories to type PV 93
## Multiple manifold for 8 valves

**Model:**

- Available until approx. October 2006

| Code | kg | L [mm] | L1 [mm] | |
|---|---|---|---|---|
| **199 190 273** | 0.200 | 192 | 183 | |

## Accessories to type PV 93
## Blank plate for multiple manifold

**Model:**

- Available until approx. October 2006

- With one O-Ring and two screws

| Code | kg | |
|---|---|---|
| **199 190 274** | 0.020 | |

## Accessories to type PV 93
## Cable plug with LED and VDR

**Model:**

- Available until approx. October 2006

| Voltage | Code | kg | |
|---|---|---|---|
| 220 V AC/DC | **198 806 122** | 0.050 | |
| 110 V AC/DC | **198 806 121** | 0.050 | |
| 24 V AC/DC | **198 806 123** | 0.050 | |

## Pilot valve type 5470
## Pilot valve 4/2 ways

- **to pneumatic actuators DA (Double acting)**
- Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- Valve material: polyamid
- Electrical connection: cable plug
- For AC 50-60 Hz and DC

| Voltage | DN [mm] | NBR Code | kg |
|---|---|---|---|
| 230 V, AC/DC | 4 | **199 190 302** | 0.270 |
| 115 V, AC/DC | 4 | **199 190 303** | 0.270 |
| 24 V, AC/DC | 4 | **199 190 304** | 0.140 |

## Pilot valve type MNL532
## Pilot valve 3/2-5/2-ways

**Model:**

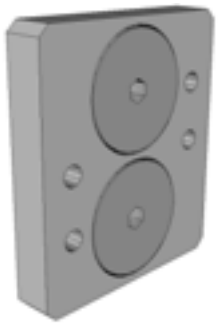
- With NAMUR connection and two silencers/throttle screws

**mode of action:**

- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- Material of body: Aluminum

- **to pneumatic actuators**
- Electrical connection: cable plug

| Voltage | DN [mm] | NBR Code | kg |
|---|---|---|---|
| 230 V, AC | 5 | **199 190 360** | 0.270 |
| 110 V, AC | 5 | **199 190 359** | 0.270 |
| 48 V, AC | 5 | **199 190 361** | 0.270 |
| 24 V, AC | 5 | **199 190 358** | 0.270 |
| 24 V, DC | 5 | **199 190 357** | 0.270 |



## Accessories to type 5470 and type MNL532
## NAMUR connector plate for type DIASTAR DN 15-50 and PA11/21

| Pos | DN | Series PA11/21 | Series 028-FC | Series 025-FC | Series 025-FO/DA |
|---|---|---|---|---|---|
| 2 | 15 | 199 190 378 | 199 190 378 | 199 190 378 | 199 190 378 |
| 2 | 20 | 199 190 378 | 199 190 378 | 199 190 378 | 199 190 378 |
| 2 | 25 | 199 190 378 | 199 190 378 | 199 190 378 | 199 190 378 |
| 2 | 32 | 199 190 378 | 199 190 378 | 199 190 379 | 199 190 378 |
| 2 | 40 | 199 190 378 | 199 190 379 | 199 190 379 | 199 190 379 |
| 2 | 50 | 199 190 378 | 199 190 379 | 199 190 379 | 199 190 379 |

| Series 025 / 028 Code | kg |
|---|---|
| **199 190 378** | 0.111 |
| **199 190 379** | 0.354 |

## Accessories to type 5470 and type MNL532
## NAMUR connector plate for type PA 10 / PA 20

| DN-DN [mm] | Code | kg | |
|---|---|---|---|
| 10 - 50 | **700 646 818** | 0.100 | |

## Solenoid pilot valve type PV 2000
## 2 x 3/2-way valve

**Model:**

- lockable manual override

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Voltage | Code | kg | |
|---|---|---|---|---|
| 1 | 24V/DC 100% | **199 190 435** | 0.110 | |

## Solenoid pilot valve type PV 2000
## 1 x 5/2-way valve

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Voltage | Code | kg | |
|---|---|---|---|---|
| 2 | 24 V/DC 100% | **199 190 423** | 0.105 | |

## Solenoid pilot valve type PV 2000
## Connection module with D-sub connector

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Code | kg | |
|---|---|---|---|
| 3 | **199 190 424** | 0.156 | |

## Solenoid pilot valve type PV 2000
## End module

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Code | kg | |
|---|---|---|---|
| 4 | **199 190 426** | 0.102 | |

## Solenoid pilot valve type PV 2000
## Connection module AS-interface

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Code | kg | |
|---|---|---|---|
| 1 | **199 190 430** | 0.200 | |

## Solenoid pilot valve type PV 2000
## Connection module profibus

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Code | kg | |
|---|---|---|---|
| 1 | **199 190 431** | 0.200 | |

## Solenoid pilot valve type PV 2000
## Connection module with bus interface

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

| No | Code | kg | |
|---|---|---|---|
| 2 | **199 190 425** | 0.156 | |

## Accessories to type PV 2000
## Silencer 8mm

| Code | kg | |
|---|---|---|
| **199 190 427** | 0.020 | |

## Accessories to type PV 2000
## Plug (white)

| d [mm] | Code | kg | |
|---|---|---|---|
| 8 | **199 190 428** | 0.010 | |
| 6 | **199 190 429** | 0.010 | |

# Accessories to type PV 2000
# D-Sub connector 25 poles
# With connection cable

| Cable length [m] | Code | kg | |
|---|---|---|---|
| 1.50 | **199 190 432** | 0.500 | |
| 3.00 | **199 190 433** | 0.500 | |
| 5.00 | **199 190 434** | 0.500 | |

# ASI bus

## AS-Interface set type ASVC 2300-11
## For pneumatic rotary drive

New

| Code | kg | |
|---|---|---|
| **199 190 560** | 0.300 | |

## AS-Interface set type topmatic
## For Diastar
## Series 028-FC (Fail safe to close)

- Without accessories

| DN-DN [mm] | Code | kg | |
|---|---|---|---|
| 15 - 20 | **199 190 456** | 0.400 | |
| 32 - 50 | **199 190 457** | 0.400 | |

## AS-Interface set type topmatic
## For Diastar
## Series 025-FC/FO

- Without accessories

| DN-DN [mm] | Code | kg | |
|---|---|---|---|
| 15 - 20 | **199 190 456** | 0.400 | |
| 25 - 32 | **199 190 467** | 0.400 | |
| 40 - 50 | **199 190 468** | 0.400 | |

## AS-Interface set type topmatic
## For Diastar
## Series 025-FC/FO

- Without accessories

| DN-DN [mm] | Code | kg | |
|---|---|---|---|
| 65 - 150 | **199 190 458** | 0.400 | |

## AS-Interface valve plug type MSR

| DN-DN [mm] | Plug 19x19mm Code | Plug 19x16mm Code | kg | |
|---|---|---|---|---|
| 15 - 150 | **199 190 455** | **199 190 459** | 0.100 | |

## AS-Interface set type FL31 for PA 11 - PA 21 / PA 30 - PA 90

| With cable, without pilot valve Code | kg | |
|---|---|---|
| **199 190 451** | 0.530 | |

## AS-Interface connection by means of slave for EA 11 - EA 21 / EA 20 - EA 41

| Code | kg | |
|---|---|---|
| **199 190 463** | 0.530 | |

# Assembly parts for ball valves

## Retrofit ball valve bracket
## For EA11/21 PA11/21 to ball valve 346

| Type of actuator | d [mm] | d-d [mm] | DN [mm] | DN-DN [mm] | Master gauge | Code | kg |
|---|---|---|---|---|---|---|---|
| PA11 | 20 | - | 15 | - | F04 | **198 000 608** | 0.398 |
| PA11 / EA11/21 | | 16 - 20 | | 10 - 15 | F05 | **198 000 580** | 0.398 |
| PA11 | 25 | - | 20 | - | F04 | **198 000 609** | 0.418 |
| EA11/21 | 25 | - | 20 | - | F05 | **198 000 604** | 0.418 |
| PA11 | 32 | - | 25 | - | F04 | **198 000 610** | 0.430 |
| PA11 / EA11/21 | 32 | - | 25 | - | F05 | **198 000 582** | 0.430 |
| PA21 EA11/21 | 40 | - | 32 | - | F05 | **198 000 605** | 0.455 |
| PA21 EA11/21 | 50 | - | 40 | - | F05 | **198 000 606** | 0.295 |
| PA21 EA11/21 | 63 | - | 50 | - | F05 | **198 000 607** | 0.346 |

## Ball valve bracket type 175-7/275-7

**Model:**

- For EA21 and PA11/21 to ball valve 343

| Type of actuator | d [mm] | d-d [mm] | DN [mm] | DN-DN [mm] | Master gauge | EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| EA21 / PA11 | | 16 - 20 | | 10 - 15 | F04 / F05 | **198 000 570** | 0.169 |
| EA21 / PA11 | 25 | - | 20 | - | F04 / F05 | **198 000 571** | 0.178 |
| EA21 / PA11 | 32 | - | 25 | - | F04 / F05 | **198 000 572** | 0.212 |
| EA21 / PA21 | 40 | - | 32 | - | F05 | **198 000 573** | 0.217 |
| EA21 / PA21 | 50 | - | 40 | - | F05 | **198 000 574** | 0.238 |
| EA21 / PA21 | 63 | - | 50 | - | F05 | **198 000 575** | 0.342 |

## Ball valve bracket type 178 / 278

**Model:**

- For EA21 and PA11/21 to ball valve 343 vertical
- 3-way ball valve only with EA21

| Type of actuator | d [mm] | d-d [mm] | DN [mm] | DN-DN [mm] | Master gauge | EPDM Code | kg |
|---|---|---|---|---|---|---|---|
| PA11 / EA11/21 | | 16 - 20 | | 10 - 15 | F05 | **198 000 580** | 0.398 |
| PA11 / EA21 | 25 | - | 20 | - | F05 | **198 000 581** | 0.418 |
| PA11 / EA11/21 | 32 | - | 25 | - | F05 | **198 000 582** | 0.430 |
| PA21 / EA21 | 40 | - | 32 | - | F05 | **198 000 583** | 0.455 |
| PA21 / EA21 | 50 | - | 40 | - | F05 | **198 000 584** | 0.295 |
| PA21 / EA21 | 63 | - | 50 | - | F05 | **198 000 585** | 0.346 |

## Adapter plate incl. coupling
## For actuator units electric type EA 11/ EA 21
## Pneumatic type PA 11 / PA 21
## To type 546

| d-d [mm] | DN-DN [mm] | Code | kg |
|---|---|---|---|
| 16 - 20 | 10 - 15 | **198 150 556** | 0.098 |
| 25 - 32 | 20 - 25 | **198 150 557** | 0.114 |
| 40 - 50 | 32 - 40 | **198 150 558** | 0.154 |
| - 63 | - 50 | **198 150 559** | 0.184 |

## Intermediate element to type 107 - 130 / 230 with manual override

| DN-DN [mm] | Code | kg |
|---|---|---|
| 10 - 25 | **198 000 500** | 0.240 |
| 32 - 50 | **198 000 501** | 0.260 |

## Intermediate element to type 108 With manual override

| d [mm] | d-d [mm] | DN [mm] | DN-DN [mm] | Inch | Type | Code | kg |
|---|---|---|---|---|---|---|---|
| 75 | - | 65 | - | 2 1/2 | EA 30 | **198 000 132** | 2.395 |
| 90 | - | 80 | - | 3 | EA 30 | **198 000 133** | 2.870 |
| | 110 - 160 | | 100 - 150 | 4 / 6 | EA 30 / EA 41 | **198 000 134** | 2.870 |

## Intermediate element to type 208 Without manual override (with flanges)

| d [mm] | DN [mm] | Inch | Type | Code | kg |
|---|---|---|---|---|---|
| 75 | 65 | 2 ½ | PA 40 FC/FO | **198 000 236** | 1.000 |
| 75 | 65 | 2 ½ | PA 40 DA | **198 000 237** | 1.000 |
| 90 | 80 | 3 | PA 50 FC/FO | **198 000 238** | 1.600 |
| 90 | 80 | 3 | PA 50 DA | **198 000 239** | 1.600 |
| 110 - 160 | 100 - 150 | 4 - 6 | PA 50 FC/FO | **198 000 240** | 2.300 |
| 110 - 160 | 100 - 150 | 4 - 6 | PA 50 DA | **198 000 241** | 2.300 |

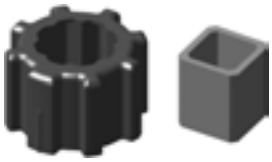
## Intermediate element to type 208 Without manual override (with unions)

| d [mm] | DN [mm] | Inch | Type | Code | kg |
|---|---|---|---|---|---|
| 75 | 65 | 2 1/2 | PA 40 FC/FO | **198 000 276** | 1.000 |
| 75 | 65 | 2 1/2 | PA 40 DA | **198 000 277** | 1.000 |
| 90 | 80 | 3 | PA 50 FC/FO | **198 000 278** | 1.000 |
| 90 | 80 | 3 | PA 50 DA | **198 000 279** | 1.000 |
| 110 | 100 | 4 | PA 50 FC/FO | **198 000 280** | 1.000 |
| 110 | 100 | 4 | PA 50 DA | **198 000 281** | 1.000 |

# Assembly parts for actuators

## Adapter set for PA11
## F04 (WS11) per EN ISO 5211

| Code |
|---|
| 198 000 586 |



## Adapter set for PA21 EA11 EA21
## F05 (WS11/14) per EN ISO 5211

| Code |
|---|
| 198 000 587 |

# Assembly parts for butterfly valves

## Intermediate element
## To type 567 / 568 / 140 / 240
## Pneumatic type 240
## Without manual override

| d | DN | Type | Code |
|---|---|---|---|
| 63 | 50 | PA30 FC/FO | 198000595 |
| 63 | 50 | PA35 DA | 198000595 |
| 75 | 65 | PA30 FC/FO | 198000595 |
| 75 | 65 | PA35 DA | 198000595 |
| 90 | 80 | PA40 DA | 198000595 |
| 90 | 80 | PA35 FC/FO | 198000596 |
| 110 | 100 | PA40 FC/FO | 198000600 |
| 110 | 100 | PA45 DA | 198000600 |
| 140 | 125 | PA45 DA | 198000600 |
| 140 | 125 | PA45 FC/FO | 198000597 |
| 160 | 150 | PA55 DA | 198000600 |
| 160 | 150 | PA50 FC | 198000599 |
| 225 | 200 | PA55 FC/FO | 198000598 |
| 225 | 200 | PA55 DA | 198000600 |

| Code | kg |
|---|---|
| **198 000 595** | 0.300 |
| **198 000 596** | 0.300 |
| **198 000 600** | 0.100 |
| **198 000 597** | 0.150 |
| **198 000 598** | 0.150 |
| **198 000 599** | 0.100 |

## Intermediate element
## To type 567 / 568 / 140 / 240
## Electric type 140
## Without manual override

| d | DN | Type | Code |
|---|---|---|---|
| 63 | 50 | EA31 | 198000601 |
| 75 | 65 | EA31 | 198000601 |
| 90 | 80 | EA31 | 198000601 |
| 110 | 100 | EA31 | 198000602 |
| 140 | 125 | EA31 | 198000602 |
| 160 | 150 | EA31 | 198000599 |
| 225 | 200 | EA42 | 198000603 |

| Code | kg |
|---|---|
| **198 000 601** | 0.150 |
| **198 000 602** | 0.150 |
| **198 000 603** | 0.150 |

# Intermediate element
# To type 567 / 568 / 140 / 240
# Electric type 140
# With manual override

| d-d [mm] | DN-DN [mm] | Type of actuator | Code | kg | |
|---|---|---|---|---|---|
| 63 - 90 | 50 - 80 | EA31 | **198 000 623** | 1.700 | |
| 110 - 140 | 100 - 125 | EA31 | **198 000 624** | 1.700 | |
| 160 - 225 | 150 - 200 | EA31/42 | **198 000 625** | 1.700 | |

# Intermediate element
# To type 567 / 568 / 140 / 240
# Gear operated with handwheel type 567 / 5(

| d [mm] | DN [mm] | Code | kg | |
|---|---|---|---|---|
| 63 | 50 | **198 000 621** | 0.150 | |
| 75 | 65 | **-** | | |
| 90 | 80 | **-** | | |
| 110 | 100 | **198 000 622** | 0.150 | |
| 140 | 125 | **-** | | |
| | | **198 000 599** | 0.100 | |
| 225 | 200 | **-** | | |

# Configurator +GF+ ball valve type 546 PVC-U

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we have created a selection menu for you.

**We supply what you put together.**

**Ball valve**
A01 Ball valve 546

**Material**
B01 PVC-U

**Nominal width**
C05 DN 10 3/8"
C06 DN 15 1/2"
C07 DN 20 3/4"
C08 DN 25 1"
C09 DN 32 1 1/4"
C10 DN 40 1 1/2"
C11 DN 50 2"

**Version**
D01 standard, PTFE ball seal
D02 oil-free, PTFE ball seal (only with specific connecting parts)
D03 silicone-free PTFE ball seal (only with specific connecting parts)
D04 silicone-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded insert**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G01 PVC-U Cement socket metric
G02 PVC-U Cement socket JIS
G03 PVC-U Cement socket inch ANSI
G04 PVC-U Cement socket inch BS
G05 PVC-U Cement spigot metric
G06 PVC-U Threaded socket Rp
G07 PVC-U Threaded socket Rp reinforced
G08 PVC-U Threaded socket Rc
G09 PVC-U Threaded socket NPT
G30 PP-H Fusion socket metric
G32 PP-H Socket fusion spigot metric
G33 PP-H Threaded socket Rp
G34 PP-H Threaded socket NPT reinforced
G35 PP-H Butt fusion spigot SDR 11 metric IR-PLUS
G36 PP-H Butt fusion spigot SDR 17.6 metric
G37 PP-H Butt fusion spigot long SDR11 metric
G40 PE-100 Fusion socket metric
G41 PE-100 Butt fusion spigot SDR11 metric
G42 PE-100 Butt fusion spigot SDR17.6 metric
G43 PE-100 Butt fusion spigot lang SDR11 metric
G60 Fixed flange PVC-U serrated metric
G61 Fixed flange PVC-U flat metric
G62 Fixed flange PVC-U JIS
G70 Backing flange PVC-U metric
G71 Backing flange PVC-U inch ANSI
G72 Backing flange PP-steel metric

**Multi-functional module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

| A01 | B01 | C | D | E | F | G | G | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | left | right | | | |

# Configurator +GF+ ball valve type 546 PVC-C

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we have created a selection menu for you.

**We supply what you put together.**

**Ball valve**
A01 Ball valve 546

**Material**
B02 PVC-C

**Nominal width**
C05 DN 10 3/8“
C06 DN 15 1/2“
C07 DN 20 3/4“
C08 DN 25 1“
C09 DN 32 1 1/4“
C10 DN 40 1 1/2“
C11 DN 50 2“

**Version**
D01 standard, PTFE ball seal
D04 silicone-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded inserts**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G11 PVC-C cement socket metric
G12 PVC-C cement socket JIS
G13 PVC-C cement socket inch ANSI
G14 PVC-C cement spigot metric
G15 PVC-C threaded socket Rp
G16 PVC-C threaded socket Rp reinforced
G17 PVC-C threaded socket NPT
G40 PE-100 fusion socket metric
G41 PE-100 butt fusion spigot SDR11 metric
G42 PE-100 butt fusion spigot SDR17.6 metric
G43 PE-100 butt fusion spigot long SDR11 metric
G72 Backing flange PP-steel metric

**Multi-functional Module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

| A01 | B02 | C | D | E | F | G | G | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | left | right | | | |

# Configurator +GF+ ball valve type 546 ABS

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we have created a selection menu for you.

**We supply what you put together.**

**Ball valve**
A01 Ball valve 546

**Material**
B03 ABS

**Nominal width**
C05 DN 10 3/8"
C06 DN 15 1/2"
C07 DN 20 3/4"
C08 DN 25 1"
C09 DN 32 1 1/4"
C10 DN 40 1 1/2"
C11 DN 50 2"

**Version**
D01 standard, PTFE ball seal
D04 silicone-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded inserts**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G20 ABS cement socket metric
G21 ABS cement socket inch BS
G22 ABS threaded socket Rp
G23 ABS threaded socket Rp reinforced
G40 PE-100 fusion socket metric
G41 PE-100 butt fusion spigot SDR11 metric
G42 PE-100 butt fusion spigot SDR17.6 metric (limited dimension range)
G43 PE-100 butt fusion spigot long SDR11 metric
G80 PVC-U Blank connecting part

**Multi-functional Module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

| A01 | B03 | C | D | E | F | G | G | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | left | right | | | |

# Configurator +GF+ ball valve type 546 PP-H

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we have created a selection menu for you.

**We supply what you put together.**

**Ball valve**
A01 Ball valve 546

**Material**
B05 PP-H

**Dimension**
C05 d 16 DN 10 3/8"
C06 d 20 DN 15 1/2"
C07 d 25 DN 20 3/4"
C08 d 32 DN 25 1"
C09 d 40 DN 32 1 1/4"
C10 d 50 DN 40 1 1/2"
C11 d 63 DN 50 2"

**Version**
D01 Standard, PTFE ball seal
D04 silicone-free, PVDF ball seal for metric (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded insert**
F01 without threaded insert
F02 with threaded insert

**Connecting parts**
G30 PP-H fusion socket metric
G32 PP-H Socket fusion spigot metric
G33 PP-H Threaded socket Rp reinforced
G34 PP-H Threaded socket NPT reinforced
G35 PP-H Butt fusion spigot SDR 11 metric IR Plus®
G36 PP-H Butt fusion spigot SDR 17.6 metric
(limited dimension range), selecting this connection
reduces the maximum allowable operating pressure to PN 6
G37 PP-H Butt fusion spigot long SDR11 metric
G63 Fixed flange PP-H serrated metric
G73 Backing flange PP-steel inch ANSI
G40 PE-100 Fusion socket metric
G41 PE-100 Butt fusion spigot SDR11 metric
G42 PE-100 Butt fusion spigot SDR17.6 metric
(limited dimension range)
G43 PE-100 Butt fusion spigot long SDR11 metric
G11 PVC-C Cement socket metric
G13 PVC-C Cement socket inch ASTM
G14 PVC-C Cement spigot metric
G15 PVC-C Threaded socket Rp
G16 PVC-C Threaded socket Rp reinforced
G17 PVC-C Threaded socket NPT

**Multi-functional Module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

| A01 | B05 | C | D | E | F | G | G | I | K | L |
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# Configurator +GF+ ball valve type 546 PVDF

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we have created a selection menu for you.

**We supply what you put together.**

**Ball valve**
A01 Ball valve 546

**Material**
B15 PVDF

**Dimension**
C05 d 16 DN 10 3/8“
C06 d 20 DN 15 1/2“
C07 d 25 DN 20 3/4“
C08 d 32 DN 25 1“
C09 d 40 DN 32 1 1/4“
C10 d 50 DN 40 1 1/2“
C11 d 63 DN 50 2“

**Version**
D01 Standard, PTFE ball seal
D04 silicone-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded inserts**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G50 PVDF Fusion socket metric
G51 PVDF Socket fusion spigot metric
G52 PVDF Butt fusion spigot SDR 11 metric IR Plus®
G53 PVDF Threaded socket NPT
G64 Fixed flange PVDF serrated metric

**Multi-functional Module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

| A01 | B15 | C | D | E | F | G | G | I | K | L |
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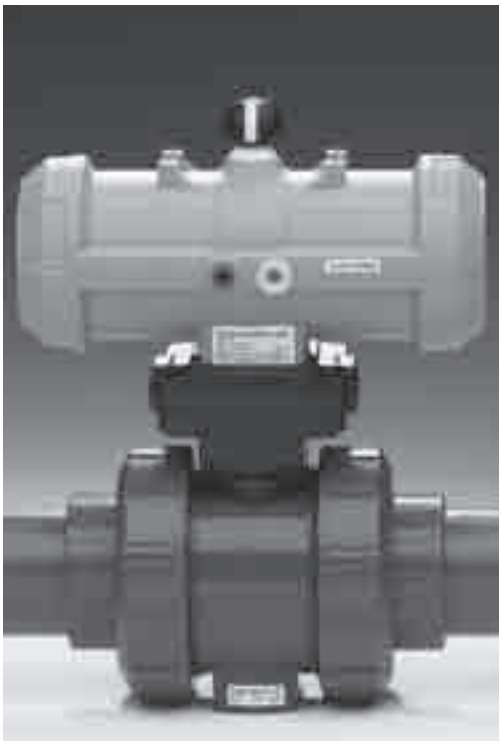
# Configurator
# +GF+ ball valve type 546 with pneumatic actuator

**It's so easy to configurate the type 546:**
With the configurator, you have a choice of new pneumatic actuators PA11 and PA21 in 2 optimized sizes including a large range of accessories.

**We supply what you put together.**



**Pneumatic actuators PA11/PA21**
P01 Fail safe to close PA11/PA21
P02 Fail safe to open PA11/21
P03 Double acting PA11/21

**Manual override**
Q01 without manual override
Q02 with manual override

**Stroke limiter**
R01 without stroke limiter
R02 with stroke limiter

| P | Q | R |
|---|---|---|

# Find the fitting solution with the Configurator

**Example:**
Type 546 PVC-U, nominal width DN 32,
PTFE ball seal, EPDM seals,
with threaded inserts,
Connecting part left, PVC-U cement socket metric,
Connecting part right, PE-100 butt fusion spigot metric.
Multi-functional module with inductive Namur switch,
Pneumatic actuator PA 11/21, fail safe to open,
without emergency manual override, without mounting plate

**That's all it takes to configure your ball valve.**

**Ball Valve**
A01 Ball valve 546

**Material**
B01 PVC-U

**Nominal width**
C05 DN 10 3/8" "
C06 DN 15 1/2" "
C07 DN 20 3/4" "
C08 DN 25 1" "
C09 DN 32 1 1/4" "
C10 DN 40 1 1/2" "
C11 DN 50 2" "

**Version**
D01 standard, PTFE ball seal
D02 oil-free, PTFE ball seal (only with specific connecting parts)
D03 silicon-free, PTFE ball seal (only with specific connecting parts)
D04 silicon-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded inserts**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G01 PVC-U Cement socket metric
G02 PVC-U Cement socket JIS
G03 PVC-U Cement socket inch ANSI
G04 PVC-U Cement socket inch BS
G05 PVC-U Cement spigot metric
G06 PVC-U Threaded socket Rp
G07 PVC-U Threaded socket Rp reinforced
G08 PVC-U Threaded socket Rc
G09 PVC-U Threaded socket NPT
G30 PP-H Fusion socket metric
G32 PP-H Socket fusion spigots metric
G33 PP-H Threaded socket Rp
G34 PP-H Threaded socket NPT reinforced
G35 PP-H Butt fusion spigot SDR 11 metric IR-PLUS
G36 PP-H Butt fusion spigot SDR 17.6 metric
G37 PP-H Butt fusion spigot lang SDR11 metric
G40 PE-100 Fusion socket metric
G41 PE-100 Butt fusion spigot SDR11 metric
G42 PE-100 Butt fusion spigot SDR17.6 metric
G43 PE-100 Butt fusion spigot lang SDR11 metric
G60 Fixed flange PVC-U serrated metric
G61 Fixed flange PVC-U flat metric
G62 Fixed flange PVC-U JIS
G70 Backing flange PVC-U metric
G71 Backing flange PVC-U inch ANSI
G72 Backing flange PP-steel metric

**Multi-functional module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

**Pneumatic actuators PA11/PA21**
P01 Fail safe to close PA11/PA21
P02 Fail safe to open PA11/21
P03 Double acting PA11/21

**Manual override**
Q01 without manual override
Q02 with manual override

| A01 | B01 | C09 | D01 | E01 | F02 | G01 | G41 | I05 | K | L01 | P02 | Q01 | = |
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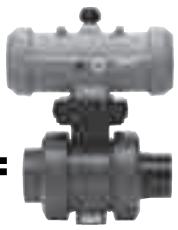
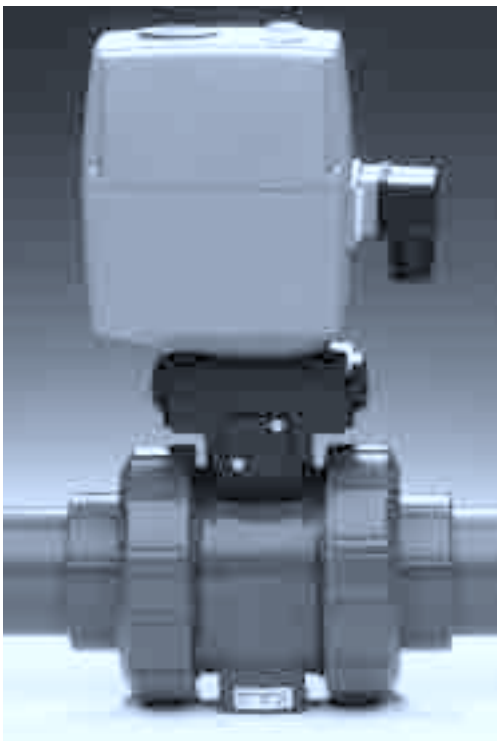


# Configurator
# +GF+ ball valve type 546 with electric actuator

**It's easy to actuate the type 546:**

With the Configurator, you have a choice between the new electric actuators EA11 for standard applications and EA21 with modular design and accessories for practically any type of operation.

**We supply what you put together.**



**Electric actuator EA11**
T01 EA11 24 V
T02 EA11 100–230 V

**Accessories for EA11**
U01 No accessories
U02 2 limit switches Ag, Ni, normally closed
U03 Heating element
U04 Fail-safe return incl. battery
U05 2 limit switches Ag, Ni, normally open

**Electric actuator EA21**
T03 EA21 24 V
T04 EA21 100–230 V

**Accessories for EA21**
W01 No accessories
W02 Heating element
W03 Fail-safe return incl. battery
W04 Monitoring print
W05 Cycle time module
W06 Cycle time monitoring
W07 Cycles monitoring
W08 Motor current monitoring
W09 2 limit switches Ag, Ni
W10 2 limit switches Au
W11 2 limit switches NPN
W12 2 limit switches PNP
W13 Positioner PE25
W14 Electric position signalization
W15 Switch for middle positioning
W16 Bus module (not realized at this time)

| | | | | | | | | |
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| T | U | T | W | W | W | W | W | W |

# Find the fitting solution with the Configurator

**Example:**

Type 546 PVC-U, nominal width DN 32,
PTFE ball seal, EPDM seals,
with threaded insert,
Connecting part left and right PVC-U cement socket metric,
Multi-functional module empty,
Electric actuator EA 21 100–230 V
with heating element, running time monitoring, motor current monitoring, electric position indicator,
without mounting plate

**That's all it takes to configure your ball valve.**

**Ball Valve**
A01 Ball valve 546

**Material**
B01 PVC-U

**Nominal width**
C05 DN 10 3/8"
C06 DN 15 1/2"
C07 DN 20 3/4"
C08 DN 25 1"
C09 DN 32 1 1/4"
C10 DN 40 1 1/2"
C11 DN 50 2"

**Version**
D01 standard, PTFE ball seal
D02 oil-free, PTFE ball seal (only with specific connecting parts)
D03 silicon-free, PTFE ball seal (only with specific connecting parts)
D04 silicon-free, PVDF ball seal (only with specific connecting parts)

**Seals**
E01 EPDM seals
E02 FPM seals

**Threaded inserts**
F01 without threaded inserts
F02 with threaded inserts

**Connecting parts**
G01 PVC-U Cement socket metric
G02 PVC-U Cement socket JIS
G03 PVC-U Cement socket inch ANSI
G04 PVC-U Cement socket inch BS
G05 PVC-U Cement spigot metric
G06 PVC-U Threaded socket Rp
G07 PVC-U Threaded socket Rp reinforced
G08 PVC-U Threaded socket Rc
G09 PVC-U Threaded socket NPT
G30 PP-H Fusion socket metric
G32 PP-H Socket fusion spigots metric
G33 PP-H Threaded socket Rp
G34 PP-H Threaded socket NPT reinforced
G35 PP-H Butt fusion spigot SDR 11 metric IR-PLUS
G36 PP-H Butt fusion spigot SDR 17.6 metric
G37 PP-H Butt fusion spigot lang SDR11 metric
G40 PE-100 Fusion socket metric
G41 PE-100 Butt fusion spigot SDR11 metric
G42 PE-100 Butt fusion spigot SDR17.6 metric
G43 PE-100 Butt fusion spigot lang SDR11 metric
G60 Fixed flange PVC-U serrated metric
G61 Fixed flange PVC-U flat metric
G62 Fixed flange PVC-U JIS
G70 Backing flange PVC-U metric
G71 Backing flange PVC-U inch ANSI
G72 Backing flange PP-steel metric

**Multi-functional module**
I01 No multi-functional module
I02 Empty module
I03 Module with 2 limit switches Ag, Ni
I04 Module with 2 limit switches Au
I05 Module with 2 inductive switches Namur
I06 Module with 2 inductive switches PNP
I07 Module with 2 inductive switches NPN

**Lever**
K01 Standard lever red
K02 Standard lever black
K11 Multi-functional lever red

**Mounting plate**
L01 without mounting plate
L02 with mounting plate

**Electric Actuator EA11**
T01 EA11 24 V
T02 EA11 100–230 V

**Accessories for EA11**
U01 no accessories
U02 2 limit switch Ag, Ni
U03 Heating element
U04 Fail-safe return
U05 Heating element plus Fail-safe return

**Electric Actuator EA21**
T03 EA21 24 V
T04 EA21 100–230 V

**Accessories for EA21**
W01 no accessories
W02 Heating element
W03 Control time module
W04 Running time monitoring
W05 Control cycle monitoring
W06 Motor current monitoring
W07 2 Limit switches Standard
W08 2 Limit switches Gold
W09 2 Limit switches NPN
W10 2 Limit switches PNP
W11 Positioner
W12 Electric position indicator
W13 Bus module
W14 Fail-safe return

| A01 | B01 | C01 | D01 | E01 | F02 | G01 | G01 | I02 | K | L01 | T | U | T04 | W02 | W04 | W06 | W12 | W | W |
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