



TP Pipe, Fittings and Hand
Operated Valves
Product Guide
Issue 10

TP has been producing quality patented products since 1982. The constant research for improvement and efficiency of our company has enabled us to obtain the Quality System Certificate (SQP ISO 9002).

Flexibility and dynamism are the two main characteristics of the company that allow us to satisfy any kind of specific request.

ABBREVIATIONS

ABS	Acrylonitrile Butadiene Styrene
ASA	American Standards Association
BSP	British Standard Pipe (thread)
DIN	Deutsche Industrie Normen (German Industry Standards)
EPDM	Ethylene Propylene Rubber
FPM	Fluorine Rubber
GR	Weight in Grammes
ISO	International Standards Organisation
KG	Weight in Kilogrammes
NBR	Nitrile Rubber
NP	Nominal Pressue
PE	Polyethylene
PP	Polypropylene
PFTE	Polytetrafluoroethylene
PVC-U	Unplasticised Polyvinyl Chloride
SP	Standard Pack
PN	Pressure Rating

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The technical data given in this catalogue is for preliminary purposes only and is published without guarantee. All line 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.

General properties of PVC-U Fittings BS range

USE

Rigid PVC fittings are suitable for connecting PVC pressure pipes in the following fields: irrigation, water distribution, chemical plants, water treatment, swimming pools, food processing plants, etc.

RANGE

Complete dimensional item ranges as per the following series: (L), (R) and (T).

L series: solvent welding BS series (BS 4346/1).

R series: form BS solvent welding to BS 21 parallel threaded (BSP).

T series: from BS solvent welding to metric solvent welding.

MATERIAL

Fittings supplied in rigid PVC (polyvinylchloride) unplasticised and stabilized suitable for conveying potable water and food stuff. Material Chemical resistances according to ISO/TR 10358.

SANITARY REGULATIONS

Our PVC compound is not toxic and it is suitable for conveying potable water and food stuff in accordance with the prescriptions of National Authorities in Italy, (C.M.102 d.t.d. 02.12.78) and in other countries.

GASKETS

Standard gaskets for unions and flanges are in EPDM (ethylene-polypropylene rubber). Other materials are available upon request.

NOTES FOR INSTALLATION

For chemical resistance see our "Chemical Resistance Table"

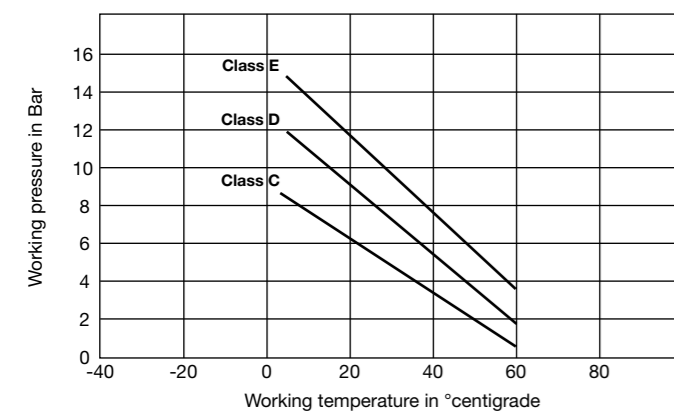
Max working pressure in Bar

SERIES	DIMENSIONS	CLASS	NP
Solvent welding (L)	from 3/8" to 8"	E	15
BS plain-ISO plain (T)	from 3/8" to 6"	E	15
Adaptor (R)	from 3/8" to 2" from 3/8" to 2"	E D	15 12

Safety factors at 20° C

CLASS	NP NOMINAL PRESSURE	1 Hour	50 YEARS
E	15 Bar	3,6	2,1
D	12 Bar	4,5	2,6
C	9 Bar	6,0	3,5

Working pressure range relating to temperature



TP can not assume liability about characteristics not directly involved in international standards.

Standards



1991			1990			1993		
iip UNI			NF			liwa		
Identification No. N. iscrizione: 237			Identification No. N. iscrizione: 37-1			Identification No. N. iscrizione: K5113 ND10		
Article Articolo	D mm	NP PN	Article Articolo	D mm	NP PN	Article Articolo	D mm	NP PN
BOI	16 + 63	16	TII	16 + 110	16	TII	16 + 90	10
TII	16 + 200	16	GYI	16 + 110	16	GYI	16 + 90	10
GYI	16 + 200	16	GOI	16 + 110	16	GOI	16 + 90	10
GOI	16 + 200	16	MAI	16 + 110	16	MAI	16 + 90	10
MAI	16 + 200	16	CAI	16 + 63	16	CAI	16 + 90	10
CAI	16 + 200	16	RCI	20 x 16 + 110 x 90	16	RCI	20 x 16 + 90 x 75	10
RCI	20 x 16 + 160 x 140	16	D 110 are required PN 10 according to NFT 54016 La norma NFT 54016 prevede per D 110 il PN 10					
FLI	20 + 160	16						
QRI	20 + 160	16						
FFI	20 + 110	16						
FLI	200	10						
QRI	200	10						

PED (Pressure Equipment Directive 97/27 EC)

Industrial valves range is suitable for use with a wide variety of fluids belonging either to Group 1 or Group 2 in liquid state only. They are manufactured under SEP, therefore need not be CE marked. Instructions for installation and maintenance are supplied with every valve.

PVC-U Fittings & Valves Installation Notes

Solvent Cement Fittings

Solvent Cement Fittings in rigid PVC can be cement jointed to PVC pipes provided that the pipe dimensions comply with ISO 727, UNI 7442/75, DIN 8063, NF T54-027 for metric range and BS 3505-3506 for BS inch.

A strong dense-type solvent cement is recommended, especially for coupling large diameters, where the ovalisation effect may cause a considerable gap. For a perfect sealing this gap should never exceed 0.6mm with a dense type cement and 0.3mm with a fluid type cement. For a perfect sealing strictly follow the cement manufacturer's instructions:

- Cut the pipe squarely, remove burrs and roughen mating surfaces with a glass paper. Then, using a clean cloth wipe over with cleaning fluid.
- Apply an even coating of solvent cement to both socket and spigot.
- Push spigot into socket immediately (1-2 minutes)
- Wipe off excess cement.

Leave joint undisturbed for the time required by the cement manufacturer and in any case allow 24 hours at normal room temperature (20°C) before applying pressure.

Verify the correct alignment of pipe and fitting.

Threaded Fittings

TP threaded fittings in PVC can be screwed to any kind of threaded items provided that they comply with standard specifications as per ISO R7, DIN 2999, UNI 338, BS 21 (cylindric gas range). For a perfect sealing follow these instructions:

- Wind up the the threaded male end completely with a good quality PTFE tape.
- Press PTFE tape on the threads to ensure a good contact.

- Add an extra coat of PTFE if required.
- Screw the female socket by hand making sure that the PTFE is not removed.
- Finally, tighten the jointing with wrenches.

Warning: excessive tightening could damage the threads. PVC female threaded fittings should never be connected with metal pipes or fittings or with cone shaped male threads as it could break the female socket. The use of hemp or similar material should be avoided as - contrary to PTFE tape - they are not rejected by the coupling even when used in excess. Consequently the socket end will expand and possibly break during jointing or running procedures. Threaded fittings should not be used with aggressive fluids at high pressure (10-16 bar). For such applications solvent cement fittings are advised.

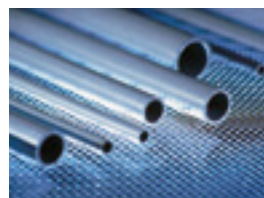
PVC-U Ball Valves

Read and follow the instructions as per the fittings instructions.

When connecting the valve, take out the central body in order to prevent the cement from coming into contact with the valve seats and ball. While assembling the valve, tighten the union nuts handtight only. If there is leakage from the union nuts, please check the correct line-up of the installation and the pipe length. An excessive tightening of the union nuts could break them.

Before the valve is operated, all dirt, sand and other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closing/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.

RV0.CLC



PVC-U Pipe Class C

D	Code	L (m)
2"	RV0.CLC.630	6
*2 1/2"/75mm	RV0.CMC.750	6
3"	RV0.CLC.900	6
4"	RV0.CLC.910	6
*5"/140mm	RV0.CMC.930	5
6"	RV0.CLC.940	6
8"	RV0.CLC.970	6

RV0.CLD



PVC-U Pipe Class D

D	Code	L (m)
1 1/4"	RV0.CLD.400	
1 1/2"	RV0.CLD.500	6
2"	RV0.CLD.630	6
3"	RV0.CLD.900	6
4"	RV0.CLD.910	6

RV0.CLE



PVC-U Pipe Class E

D	Code	L (m)
3/8"	RV0.CLE.160	6
1/2"	RV0.CLE.200	6
3/4"	RV0.CLE.250	6
1"	RV0.CLE.320	6
1 1/4"	RV0.CLE.400	6
1 1/2"	RV0.CLE.500	6
2"	RV0.CLE.630	6
3"	RV0.CLE.900	6
4"	RV0.CLE.910	6

RV0.CLT



PVC-U Pipe Class T

D	Code	L (m)
3/8"	RV0.CLT.160	6
1/2"	RV0.CLT.200	6
3/4"	RV0.CLT.250	6
1"	RV0.CLT.320	6
1 1/4"	RV0.CLT.400	6
1 1/2"	RV0.CLT.500	6
2"	RV0.CLT.630	6

* PLEASE NOTE:
2 1/2"/75mm

Dimension : DIN 8062
Pipe length : 6m with plain end
Nominal pressure PN 10 (at 20°C)

*5"/140mm

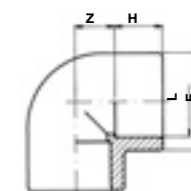
Dimension : DIN 804L
Pipe length : 5m
Nominal pressure PN 10 (at 20°C)

90° Elbow

RV0.GOL

L	Code	H	Z	E	Gr.
3/8"	RV0.GOL.160	14.5	8.5	23	13
1/2"	RV0.GOL.200	16.5	10.5	28	21
3/4"	RV0.GOL.250	19.5	13.5	34	35
1"	RV0.GOL.320	22.5	16.5	42	58
1 1/4"	RV0.GOL.400	27.0	20.0	51	90
1 1/2"	RV0.GOL.500	30.0	27.0	61	140
2"	RV0.GOL.630	36.0	35.0	75	222
2 1/2"	RV0.GOI.750	44.0	39.0	89	375
3"	RV0.GOL.900	50.5	47.5	106	600
4"	RV0.GOL.910	63.0	55.0	129	1060
5"	RV0.GOI.930	76.0	72.0	163	2050
6"	RV0.GOL.940	90.0	78.0	195	3450
*8"	RV0.GOL.970	113.0	116.0	258	6567

* maximum working pressure: 9 bar at 20°C

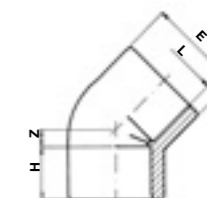
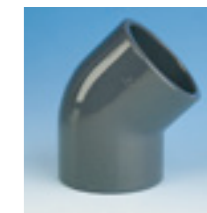


45° Elbow

RV0.GYL

L	Code	H	Z	E	Gr.
3/8"	RV0.GYL.160	14.5	4.5	23	10
1/2"	RV0.GYL.200	16.5	4.5	28	17
3/4"	RV0.GYL.250	19.5	5.5	34	29
1"	RV0.GYL.320	22.5	7.5	42	47
1 1/4"	RV0.GYL.400	27.0	9.0	51	77
1 1/2"	RV0.GYL.500	30.0	13.0	61	113
2"	RV0.GYL.630	36.0	16.0	75	190
2 1/2"	RV0.GYL.750	44.0	17.0	89	310
3"	RV0.GYL.900	50.5	20.5	106	486
4"	RV0.GYL.910	63.0	22.0	129	836
5"	RV0.GYL.930	76.0	31.0	163	1525
6"	RV0.GYL.940	90.0	36.0	198	2965
*8"	RV0.GYL.970	116.0	46	249	4900

* maximum working pressure: 9 bar at 20°C

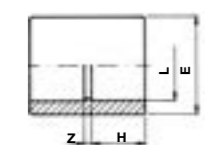
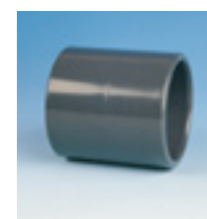


Socket

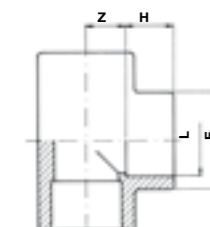
RV0.MAL

L	Code	H	Z	E	Gr.
3/8"	RV0.MAL.160	14.5	2	23	9
1/2"	RV0.MAL.200	16.5	2	28	15
3/4"	RV0.MAL.250	19.5	2	34	23
1"	RV0.MAL.320	22.5	2	42	36
1 1/4"	RV0.MAL.400	27.0	1	51	57
1 1/2"	RV0.MAL.500	30.0	5	61	84
2"	RV0.MAL.630	36.0	7	75	142
2 1/2"	RV0.MAL.750	44.0	4	89	222
3"	RV0.MAL.900	50.5	6	106	353
4"	RV0.MAL.910	63.0	2	129	605
5"	RV0.MAL.930	76.0	8	162	1100
6"	RV0.MAL.940	90.0	8	184	1540
*8"	RV0.MAL.970	118.0	10	255	3550

* maximum working pressure: 9 bar at 20°C



RV0.TIL

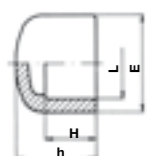
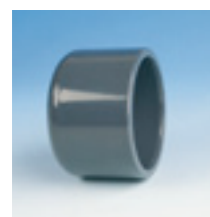


90° Tee

L	Code	H	Z	E	Gr.
3/8"	RV0.TIL.160	14.5	8.5	23	12
1/2"	RV0.TIL.200	16.5	10.5	28	20
3/4"	RV0.TIL.250	19.5	13.5	34	34
1"	RV0.TIL.320	22.5	16.5	42	54
1 1/4"	RV0.TIL.400	27.0	20.0	51	127
1 1/2"	RV0.TIL.500	30.0	27.0	61	184
2"	RV0.TIL.630	36.0	35.0	75	315
2 1/2"	RV0.TIL.750	44.0	39.0	89	494
3"	RV0.TIL.900	50.5	47.5	106	734
4"	RV0.TIL.910	63.0	55.0	129	1330
5"	RV0.TIL.930	76.0	72.0	163	2730
6"	RV0.TIL.940	90.0	78.0	195	3755
*8"	RV0.TIL.970	116.0	116.0	258	5453

* maximum working pressure: 9 bar at 20°C

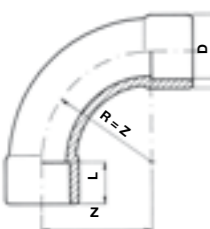
RV0.CAL



Cap

L	Code	H	h	E	Gr.
3/8"	RV0.CAL.160	14.5	22	23	7
1/2"	RV0.CAL.200	16.5	26	28	11
3/4"	RV0.CAL.250	19.5	30	34	18
1"	RV0.CAL.320	22.5	33	42	30
1 1/4"	RV0.CAL.400	27.0	41	51	44
1 1/2"	RV0.CAL.500	30.0	46	61	66
2"	RV0.CAL.630	36.0	55	75	112
2 1/2"	RV0.CAL.750	44.0	64	89	208
3"	RV0.CAL.900	50.5	73	106	325
4"	RV0.CAL.910	63.0	87	129	520
5"	RV0.CAL.930	76.0	108	162	880
6"	RV0.CAL.940	90.0	123	192	1120

RV0.CUL



90° Bend

D	Code	L	Z	E	Gr.
1/2"	RV0.CUL.200	16	40	30	41
3/4"	RV0.CUL.250	19	50	36	70
1"	RV0.CUL.320	22	64	44	116
1 1/4"	RV0.CUL.400	27	80	54	200
1 1/2"	RV0.CUL.500	32	100	63	333
2"	RV0.CUL.630	39	126	78	584
2 1/2"	RV0.CUL.750	44	150	94	1016
3"	RV0.CUL.900	51	180	113	1808
4"	RV0.CUL.910	61	220	136	2739

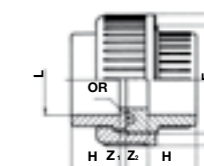
Union with O ring

RV0.BOL

L	Code	H	Z ₁	Z ₂	F	E	O-Ring	Gr.
3/8"	RV0.BOL.160	14.5	2.5	9.5	3/4"	34	3062	25
1/2"	RV0.BOL.200	16.5	2.5	9.5	1"	42	4081	42
3/4"	RV0.BOL.250	19.5	2.5	9.5	1 1/4"	52	4112	66
1"	RV0.BOL.320	22.5	2.5	9.5	1 1/2"	59	4131	92
1 1/4"	RV0.BOL.400	27.0	2.0	11.0	2"	73	6162	160
1 1/2"	RV0.BOL.500	30.0	4.0	15.0	2 1/4"	82	6187	200
2"	RV0.BOL.630	36.0	5.0	20.0	2 3/4"	100	6237	350
*2 1/2"	RV0.BOL.750	44.0	3.0	18.0	3 1/2"	119	6312	575
*3"	RV0.BOL.900	50.5	5.5	16.5	4"	134	6362	765
*4"	RV0.BOL.910	63.0	3.0	16.0	5"	16	6450	1285

* maximum working pressure: 10 bar at 20°C

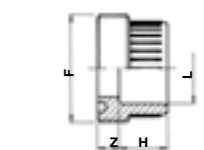
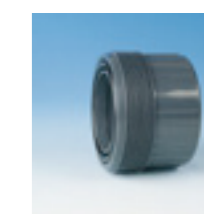
FPM O-Ring available: see accessories.



Union Bush

RV0.BFL

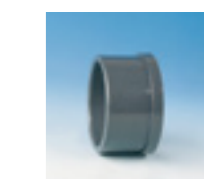
L	Code	H	Z	F	Gr.
3/8"	RV0.BFL.160	14.5	9.5	3/4"	10
1/2"	RV0.BFL.200	16.5	9.5	1"	15
3/4"	RV0.BFL.250	19.5	9.5	1 1/4"	25
1"	RV0.BFL.320	22.5	9.5	1 1/2"	34
1 1/4"	RV0.BFL.400	27.0	11.0	2"	57
1 1/2"	RV0.BFL.500	30.0	15.0	2 1/4"	78
2"	RV0.BFL.630	36.0	20.0	2 3/4"	134
2 1/2"	RV0.BFL.750	44.0	18.0	3 1/2"	205
3"	RV0.BFL.900	50.5	18.5	4"	270
4"	RV0.BFL.910	63.0	16.0	5"	465



Union End

RV0.BLL

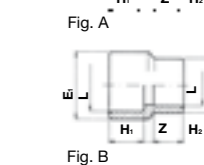
L	Code	H	Z	d	d ₁	Gr.
3/8"	RV0.BLL.160	14.5	2.5	22.0	24.0	6
1/2"	RV0.BLL.200	16.5	2.5	27.5	30.1	9
3/4"	RV0.BLL.250	19.5	2.5	36.0	38.8	16
1"	RV0.BLL.320	22.5	2.5	41.5	44.7	22
1 1/4"	RV0.BLL.400	27.0	2.0	53.0	56.5	40
1 1/2"	RV0.BLL.500	30.0	4.0	59.0	62.6	43
2"	RV0.BLL.630	36.0	5.0	74.0	78.4	80
2 1/2"	RV0.BLL.750	44.0	3.0	92.5	97.2	150
3"	RV0.BLL.900	50.5	5.5	105.0	110.0	195
4"	RV0.BLL.910	63.0	3.0	129.0	135.4	350



Reducing Socket

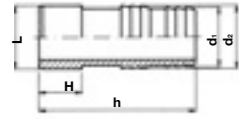
RV0.MRL

L x L	Code	H ₁	H ₂	Z	E ₁	E ₂	Fig	Gr.
1/2" x 3/8"	RV0.MRL.20A	16.5	14.5	5.0	28	23	B	14
1 1/4" x 1"	RV0.MRL.40D	27.0	22.5	4.5	51	42	B	53
2 1/2" x 2"	RV0.MRL.75G	44.0	36.0	6.0	89	75	B	211
3" x 2 1/2"	RV0.MRL.90H	50.5	44.0	5.5	106	89	B	345



RV0.PGL

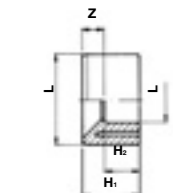
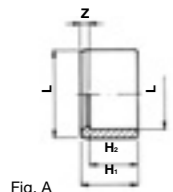
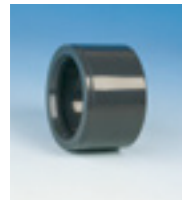
Hose Adaptor spigot



L x d ₂ x d ₁	Code	L	H	h	d ₁	d ₂	Gr.
1/2" x 22 x 20	RV0.PGL.200	1/2"	16.5	67	20	22	14
3/4" x 27 x 25	RV0.PGL.250	3/4"	19.5	74	25	25	20
1" x 32 x 30	RV0.PGL.320	1"	22.5	80	30	32	30
1 1/4" x 42 x 40	RV0.PGL.400	1 1/4"	27.0	92	40	42	55
1 1/2" x 52 x 50	RV0.PGL.500	1 1/2"	30.0	101	50	52	78
2" x 64 x 60	RV0.PGL.630	2"	36.0	111	60	64	142

RV0.RCL

Reducing Bush

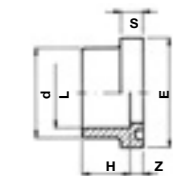
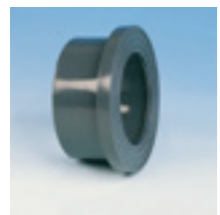


L X L	Code	H ₁	H ₂	Z	Fig	Gr.
1/2" x 3/8"	RV0.RCL.20A	16.5	14.5	2.0	A	14
3/4" x 1/2"	RV0.RCL.25B	19.5	16.5	3.0	A	22
1" x 1/2"	RV0.RCL.32B	22.5	16.5	6.0	B	17
1" x 3/4"	RV0.RCL.32C	22.5	19.5	3.0	A	35
1 1/4" x 1"	RV0.RCL.40D	27.0	22.5	4.5	A	53
1 1/2" x 1"	RV0.RCL.50D	30.0	22.5	7.5	B	35
1 1/2" x 1 1/4"	RV0.RCL.50E	30.0	27.0	3.0	A	81
2" x 1"	RV0.RCL.63D	36.0	22.5	13.5	B	67
2" x 1 1/2"	RV0.RCL.63F	36.0	30.0	6.0	A	120
2 1/2" x 1 1/2"	RV0.RCL.75F	44.0	30.0	14.0	B	122
2 1/2" x 2"	RV0.RCL.75G	44.0	36.0	8.0	A	211
3" x 1 1/2"	RV0.RCL.90F	50.5	30.0	20.5	B	200
3" x 2"	RV0.RCL.90G	50.5	36.0	14.5	B	195
3" x 2 1/2"	RV0.RCL.90H	50.5	44.0	6.5	A	345
4" x 2"	RV0.RCL.91G	63.0	36.0	27.0	B	450
4" x 2 1/2"	RV0.RCL.91H	63.0	44.0	19.0	B	370
4" x 3"	RV0.RCL.91I	63.0	50.5	12.5	A	550
5" x 3"	RV0.RCL.93I	76.0	50.5	25.5	B	550
6" x 4"	RV0.RCL.94L	90.0	63.0	27.0	B	1120
*8" x 6"	RV0.RCL.97O	115.5	90.0	25.5	B	1860

* maximum working pressure: 9 bar at 20°C

RV0.QRL

Stub Flange serrated face



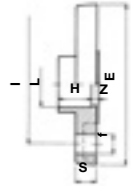
L	Code	H	Z	d	S	E	Gr.
1/2"	RV0.QRL.200	16.5	2.5	27	6	34	10
3/4"	RV0.QRL.250	19.5	2.5	33	7	41	16
1"	RV0.QRL.320	22.5	2.5	41	7	50	25
1 1/4"	RV0.QRL.400	27.0	2.5	50	8	61	40
1 1/2"	RV0.QRL.500	30.0	2.0	61	8	73	60
2"	RV0.QRL.630	36.0	4.0	76	9	90	105
2 1/2"	RV0.QRL.750	44.0	5.0	90	10	106	160
3"	RV0.QRL.900	50.5	3.0	108	11	125	277
4"	RV0.QRL.910	63.0	5.5	131	12	150	380
5"	RV0.QRL.930	76.0	3.0	165	14	188	750
6"	RV0.QRL.940	90.0	5.0	188	16	213	875
*8"	RV0.QRL.970	115.5	6.0	248	19	274	1700

* maximum working pressure: 9 bar at 20°C

Fixed Flange drilled to BS 4504

RV0.FFL

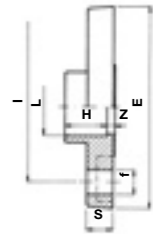
L	Code	H	Z	E	I	f	Holes	Bolts	Gr.
1/2"	RV0.FFL.200	16.5	4.0	95	65	14	4	M12 x 45	70
3/4"	RV0.FFL.250	19.5	4.0	105	75	14	4	M12 x 50	105
1"	RV0.FFL.320	22.5	4.0	115	85	14	4	M12 x 50	145
1 1/4"	RV0.FFL.400	27.0	3.5	140	100	18	4	M16 x 55	220
1 1/2"	RV0.FFL.500	30.0	5.5	150	110	18	4	M16 x 60	270
2"	RV0.FFL.630	36.0	6.5	165	125	18	4	M16 x 65	380
2 1/2"	RV0.FFL.750	44.0	6.0	185	145	18	4	M16 x 70	505
3"	RV0.FFL.900	50.5	7.5	200	160	18	8	M16 x 70	685
4"	RV0.FFL.910	63.0	6.0	220	180	18	8	M16 x 80	870
6"	RV0.FFL.940	86.0	7.0	285	240	22	8	M20 x 100	1640



Fixed Flange threaded

RV0.FFF

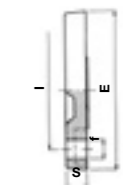
L	Code	H	Z	E	I	f	Holes	Bolts	Gr.
1/2"	RV0.FFF.200	16.5	4.0	95	65	14	4	M12 x 45	70
3/4"	RV0.FFF.250	19.5	4.0	105	75	14	4	M12 x 50	105
1"	RV0.FFF.320	22.5	4.0	115	85	14	4	M12 x 50	145
1 1/4"	RV0.FFF.400	27.0	3.5	140	100	18	4	M16 x 55	220
1 1/2"	RV0.FFF.500	30.0	5.5	150	110	18	4	M16 x 60	270
2"	RV0.FFF.630	36.0	6.5	165	125	18	4	M16 x 65	380
2 1/2"	RV0.FFF.750	44.0	6.0	185	145	18	4	M16 x 70	505
3"	RV0.FFF.900	50.5	7.5	200	160	18	8	M16 x 70	685
4"	RV0.FFF.910	63.0	6.0	220	180	18	8	M16 x 80	870



Blank Flange NP10 / NP16

RV0.FCI

D	Code	L	E	S	I	f	Holes	Bolts	Gr.
1/2"	RV0.FCI.200	65	95	11	65	14	4	M12 x 55	73
3/4"	RV0.FCI.250	75	105	12	75	14	4	M12 x 60	95
1"	RV0.FCI.320	85	115	14	85	14	4	M12 x 60	135
1 1/4"	RV0.FCI.400	100	140	15	100	18	4	M12 x 70	220
1 1/2"	RV0.FCI.500	110	150	16	110	18	4	M16 x 75	270
2"	RV0.FCI.630	125	165	18	125	18	4	M16 x 80	370
2 1/2"	RV0.FCI.750	145	185	19	145	18	4	M16 x 90	495
3"	RV0.FCI.900	160	200	20	160	18	8	M16 x 90	630
4"	RV0.FCI.910	180	220	22	180	18	8	M16 x 100	800
5"	RV0.FCI.930	210	250	26	210	18	8	M16 x 110	1000
6"	RV0.FCI.940	240	285	28	240	22	8	M20 x 120	1300
*8"	RV0.FCI.970	295	340	30	295	22	8	M20 x 120	1550

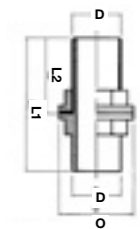


* maximum working pressure: 9 bar at 20°C

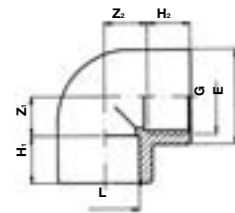
Tank Connector

RV0.TAC

D	Code	L ₁	L ₂	O	Gr.
1/2"	RV0.TAC.200	77	42	28	41
3/4"	RV0.TAC.250	77	42	33	52
1"	RV0.TAC.320	103	55	46	108
1 1/4"	RV0.TAC.400	121	70	50	153
1 1/2"	RV0.TAC.500	128	73	60	216
2"	RV0.TAC.630	154	82	80	370

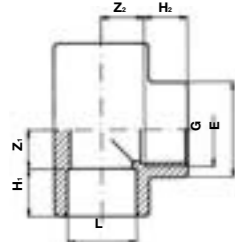


RV0.GOR 90° Elbow plain/threaded



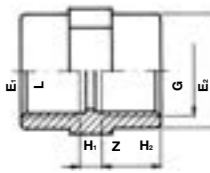
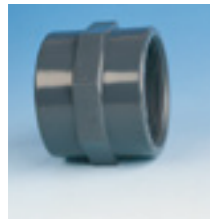
D x G	Code	H ₁	H ₂	Z ₁	Z ₂	E	Gr.
3/8" x 3/8"	RV0.GOR.16A	14.5	11.4	8.5	11.6	23	13
1/2" x 1/2"	RV0.GOR.20B	16.5	15.0	10.5	12.0	28	21
3/4" x 3/4"	RV0.GOR.25C	19.5	16.3	13.5	16.7	34	35
1" x 1"	RV0.GOR.32D	22.5	19.1	16.5	19.9	42	60
1 1/4" x 1 1/4"	RV0.GOR.40E	27.0	21.4	20.0	25.6	51	91
1 1/2" x 1 1/2"	RV0.GOR.50F	30.0	21.4	27.0	35.6	61	155
2" x 2"	RV0.GOR.63G	36.0	25.7	35.0	45.3	75	265
2 1/2" x 2 1/2"	RV0.GOR.75H	44.0	30.2	39.0	52.8	89	400
3" x 3"	RV0.GOR.90I	50.5	33.3	47.5	64.7	106	670
4" x 4"	RV0.GOR.91L	63.0	39.3	55.0	78.7	129	1055

RV0.TIR 90° Tee threaded centre off-take



D x G	Code	H ₁	H ₂	Z ₁	Z ₂	E	Gr.
3/8" x 3/8"	RV0.TIR.16A	14.5	11.4	8.5	11.6	23	17
1" x 1"	RV0.TIR.32D	22.5	19.1	16.5	19.9	42	74
1 1/4" x 1 1/4"	RV0.TIR.40E	27.0	21.4	20.0	25.6	51	120
2" x 2"	RV0.TIR.63G	36.0	25.7	35.0	45.3	75	335
2 1/2" x 2 1/2"	RV0.TIR.75H	44.0	30.2	39.0	52.8	89	505
3" x 3"	RV0.TIR.90I	50.5	33.3	47.5	64.7	106	790
4" x 4"	RV0.TIR.91L	63.0	39.3	55.0	78.7	129	1325

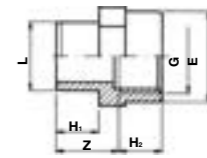
RV0.MAR Socket plain/threaded



D x G	Code	H ₁	H ₂	Z	E ₁	E ₂	Gr.
3/8" x 3/8"	RV0.MAR.16A	11.4	11.4	5.5	23	23	9
1/2" x 1/2"	RV0.MAR.20B	15.0	15.0	3.5	28	28	17
3/4" x 3/4"	RV0.MAR.25C	16.3	16.3	5.5	34	34	24
1" x 1"	RV0.MAR.32D	19.1	19.1	5.5	42	42	42
1 1/4" x 1 1/4"	RV0.MAR.40E	21.4	21.4	7.0	51	51	60
1 1/2" x 1 1/2"	RV0.MAR.50F	21.4	21.4	9.0	61	58	87
2" x 2"	RV0.MAR.63G	25.7	25.7	10.0	75	72	134
2 1/2" x 2 1/2"	RV0.MAR.75H	30.2	30.2	8.0	89	89	215
3" x 3"	RV0.MAR.90I	33.3	33.3	9.5	106	103	340
4" x 4"	RV0.MAR.91L	39.3	39.3	8.0	129	130	550

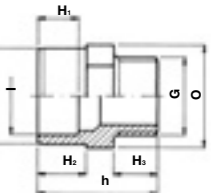
RV0.AFR Adaptor female thread

D x G	Code	H ₁	H ₂	E	Z	Gr.
3/8" x 3/8"	RV0.AFR.16A	14	11.4	23	22	16
1/2" x 1/2"	RV0.AFR.20B	16	15.0	28	24	19
3/4" x 3/4"	RV0.AFR.25C	19	16.3	32	27	26
1" x 1"	RV0.AFR.32D	22	19.1	42	30	43
1 1/4" x 1 1/4"	RV0.AFR.40E	26	21.4	51	36	65
1 1/2" x 1 1/2"	RV0.AFR.50F	31	21.4	58	41	73
2" x 2"	RV0.AFR.63G	38	25.7	72	48	135
2 1/2" x 2 1/2"	RV0.AFR.75H	44	30.2	89	58	225
3" x 3"	RV0.AFR.90I	51	33.3	103	65	310
4" x 4"	RV0.AFR.91L	61	39.3	130	76	480



RV0.AMR Adaptor double dia. BSP male thread

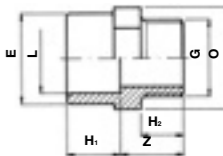
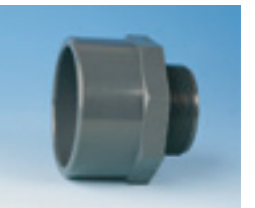
I x L x G	Code	H ₁	H ₂	H ₃	h	O	Gr.
3/8" x 1/2" x 3/8"	RV0.AMR.16A	14.5	16	11.4	40	24	10
3/8" x 1/2" x 1/2"	RV0.AMR.16B	14.5	16	15.0	43	24	11
1/2" x 3/4" x 1/2"	RV0.AMR.20B	16.5	19	15.0	46	30	14
1/2" x 3/4" x 3/4"	RV0.AMR.20C	16.5	19	16.3	47	30	18
3/4" x 1" x 3/4"	RV0.AMR.25C	19.5	22	16.3	50	36	26
3/4" x 1" x 1"	RV0.AMR.25D	19.5	22	19.1	53	36	29
1" x 1 1/4" x 1"	RV0.AMR.32D	22.5	26	19.1	57	46	40
1" x 1 1/4" x 1 1/4"	RV0.AMR.32E	22.5	26	21.4	60	46	45
1 1/4" x 1 1/2" x 1 1/4"	RV0.AMR.40E	27.0	31	21.4	67	55	73
1 1/4" x 1 1/2" x 1 1/2"	RV0.AMR.40F	27.0	31	21.4	67	55	76
1 1/2" x 2" x 1 1/2"	RV0.AMR.50F	30.0	38	21.4	74	65	113
1 1/2" x 2" x 2"	RV0.AMR.50G	30.0	38	25.7	78	65	120
2" x 2 1/2" x 2"	RV0.AMR.63G	36.0	44	25.7	84	80	150
2" x 2 1/2" x 2 1/2"	RV0.AMR.63H	36.0	44	30.2	91	80	170
2 1/2" x 3" x 2 1/2"	RV0.AMR.75H	44.0	51	30.2	99	95	268
2 1/2" x 3" x 3"	RV0.AMR.75I	44.0	51	33.3	102	95	280
3" x 4" x 3"	RV0.AMR.90I	50.5	61	33.3	113	115	476
3" x 4" x 4"	RV0.AMR.90L	50.5	61	39.3	118	115	485



I - Socket (F)
L - Spigot (M)
G - Male Thread

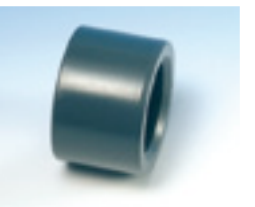
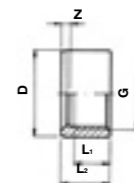
RV0.ADR Adaptor plain/BSP male thread

D x G	Code	H ₁	H ₂	E	Z	O	Gr.
2 1/2" x 2"	RV0.ADR.75G	44.0	25.7	89	37.0	90	210
2 1/2" x 2 1/2"	RV0.ADR.75H	44.0	30.2	89	42.0	90	215
4" x 3"	RV0.ADR.91I	63.0	33.3	129	45.0	130	450
4" x 4"	RV0.ADR.91L	63.0	39.3	129	49.0	130	460



RV0.RCR Reducing Bush plain/BSP female thread

D x G	Code	L ₁	L ₂	Z ₁	Gr.
1/2" x 3/8"	RV0.RCR.20A	16.5	11.4	5.1	4
3/4" x 1/2"	RV0.RCR.25B	19.5	15.0	4.5	7
1" x 3/4"	RV0.RCR.32C	22.5	16.3	6.2	12



RV0.BPF

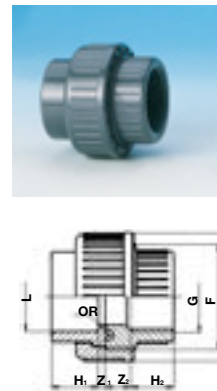
Barrel Nipple plain/threaded



D	Code	L ₁	L ₂	Gr.
1/2"	RV0.BPF.200	50	17	14
3/4"	RV0.BPF.250	56	16	25
1"	RV0.BPF.320	63	20	38
1 1/4"	RV0.BPF.400	75	24	52
1 1/2"	RV0.BPF.500	88	30	80
2"	RV0.BPF.630	88	32	115
2 1/2"	RV0.BPF.750	106	35	197
3"	RV0.BPF.900	128	39	300
4"	RV0.BPF.910	153	43	560

RV0.BOR

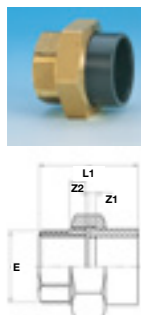
Union with O ring plain/threaded



L x G	Code	H ₁	H ₂	Z ₁	Z ₂	F	E	O Ring	Gr.
3/8" x 3/8"	RV0.BOR.16A	14.5	11.4	2.5	13.6	3/4"	34	3062	31
1/2" x 1/2"	RV0.BOR.20B	16.5	15.0	2.5	11.0	1"	42	4081	42
3/4" x 3/4"	RV0.BOR.25C	19.5	16.3	2.5	12.7	1 1/4"	52	4112	70
1" x 1"	RV0.BOR.32D	22.5	19.1	2.5	12.9	1 1/2"	59	4131	96
1 1/4" x 1 1/4"	RV0.BOR.40E	27.0	21.4	2.0	16.6	2"	72	6162	155
1 1/2" x 1 1/2"	RV0.BOR.50F	30.0	21.4	4.0	23.6	2 1/4"	79	6187	237
2" x 2"	RV0.BOR.63G	36.0	25.7	5.0	30.3	2 3/4"	96	6237	405
2 1/2" x 2 1/2"	RV0.BOP.75H	44.0	30.2	3.0	31.8	3 1/4"	119	6312	625
3" x 3"	RV0.BOR.90I	50.5	33.3	5.5	35.7	4"	134	6362	865
4" x 4"	RV0.BOR.91L	63.0	39.3	3.0	39.7	5"	163	6450	1340

RV0.BFC

Composite Union brass female BSP



D	Code	E	L ₁	Z ₁	Z ₂	Gr.
1/2"	RV0.BFC.200	43	43	3	9	165
3/4"	RV0.BFC.250	48	52	3	10	290
1"	RV0.BFC.320	55	53	9	11	310
1 1/4"	RV0.BFC.400	65	61	10	11	450
1 1/2"	RV0.BFC.500	78	76	12	12	490
2"	RV0.BFC.630	88	90	11	14	950

RV0.BMC

Composite Union brass male BSP



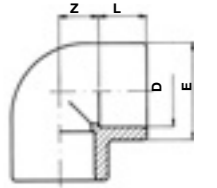
D	Code	E	L ₁	Z ₁	Gr.
1/2"	RV0.BMC.200	43	54	3	175
3/4"	RV0.BMC.250	48	74	3	238
1"	RV0.BMC.320	55	86	9	324
1 1/4"	RV0.BMC.400	65	94	10	469
1 1/2"	RV0.BMC.500	78	109	12	595
2"	RV0.BMC.630	88	125	14	982

90° Elbow threaded female

RV0.GOF



G	Code	L	Z	E	Gr.
3/8"	RV0.GOF.160	11.4	11.6	23	14
1/2"	RV0.GOF.200	15.0	12.0	28	22
3/4"	RV0.GOF.250	16.3	16.7	34	37
1"	RV0.GOF.320	19.1	19.9	42	62
1 1/4"	RV0.GOF.400	21.4	25.6	51	93
1 1/2"	RV0.GOF.500	21.4	35.6	61	180
2"	RV0.GOF.630	25.7	45.3	75	310
2 1/2"	RV0.GOF.750	30.2	52.8	89	425
3"	RV0.GOF.900	33.3	64.7	106	740
4"	RV0.GOF.910	39.3	78.7	129	1050

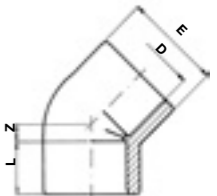


45° Elbow threaded female

RV0.GYF



G	Code	L	Z	E	Gr.
3/8"	RV0.GYF.160	11.4	7.6	23	10
1/2"	RV0.GYF.200	15.0	6.0	28	18
3/4"	RV0.GYF.250	16.3	8.7	34	31
1"	RV0.GYF.320	19.1	10.9	42	51
1 1/4"	RV0.GYF.400	21.4	14.6	51	80
1 1/2"	RV0.GYF.500	21.4	21.6	61	155
2"	RV0.GYF.630	25.7	26.3	75	275
2 1/2"	RV0.GYF.750	30.2	30.8	89	360
3"	RV0.GYF.900	33.3	37.7	106	620
4"	RV0.GYF.910	39.3	45.7	129	830

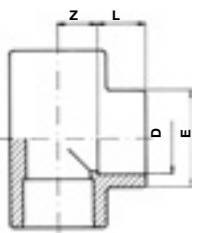


90° Tee threaded female

RV0.TIF



G	Code	L	Z	E	Gr.
3/8"	RV0.TIF.160	11.4	11.6	23	18
1/2"	RV0.TIF.200	15.0	12.0	28	29
3/4"	RV0.TIF.250	16.3	16.7	34	50
1"	RV0.TIF.320	19.1	19.9	42	76
1 1/4"	RV0.TIF.400	21.4	25.6	51	122
1 1/2"	RV0.TIF.500	21.4	35.6	61	240
2"	RV0.TIF.630	25.7	45.3	75	411
2 1/2"	RV0.TIF.750	30.2	52.8	89	540
3"	RV0.TIF.900	33.3	64.7	106	915
4"	RV0.TIF.910	39.3	78.7	129	1310



RV0.MAF

Socket threaded female

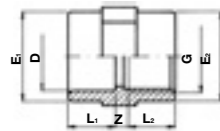
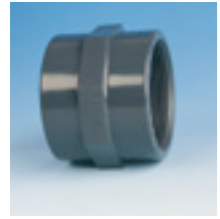


Fig. A

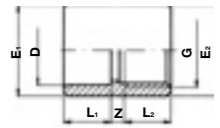
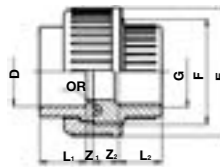


Fig. B

G	Code	L ₁	L ₂	Z ₁	E ₁	E ₂	Fig	Gr.
3/8"	RV0.MAF.160	14	11.4	6	23	23	A	9
1/2"	RV0.MAF.200	16	15.0	6	28	28	A	17
3/4"	RV0.MAF.250	19	16.3	6	34	34	A	24
1"	RV0.MAF.320	22	19.1	6	42	42	A	42
1 1/4"	RV0.MAF.400	26	21.4	4	51	51	A	60
1 1/2"	RV0.MAF.500	31	21.4	7	61	58	A	87
2"	RV0.MAF.630	38	25.7	7	75	72	A	134
2 1/2"	RV0.MAF.750	44	30.2	8	89	89	A	215
3"	RV0.MAF.900	51	33.3	9	106	103	A	340
4"	RV0.MAF.910	61	39.3	10	129	130	A	550
6"	RV0.MAF.940	69	43.6	51	160	-	B	1060

RV0.BOF

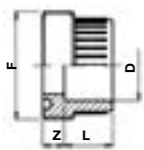
Union with O ring threaded female



G	Code	L ₁	L ₂	Z ₁	Z ₂	F	E	O Ring	Gr.
3/8"	RV0.BOF.160	14	11.4	3	13.6	3/4"	34	3062	31
1/2"	RV0.BOF.200	16	15.0	3	11.0	1"	42	4081	42
3/4"	RV0.BOF.250	19	16.3	3	12.7	1 1/4"	52	4112	70
1"	RV0.BOF.320	22	19.1	3	12.9	1 1/2"	59	4131	96
1 1/4"	RV0.BOF.400	26	21.4	3	16.6	2"	72	6162	155
1 1/2"	RV0.BOF.500	31	21.4	3	23.6	2 1/4"	79	6187	237
2"	RV0.BOF.630	38	25.7	3	30.3	2 3/4"	96	6237	405
2 1/2"	RV0.BOF.750	44	30.2	3	31.8	3 1/2"	119	6312	625
3"	RV0.BOF.900	51	33.3	5	35.7	4"	134	6362	865
4"	RV0.BOF.910	61	39.3	5	39.7	5"	163	6450	1340

RV0.BFF

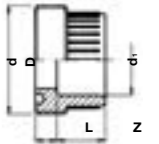
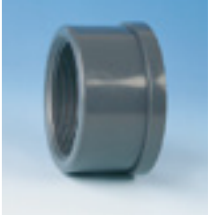
Union Bush threaded



D	Code	L	Z	F	Gr.
3/8"	RV0.BFF.160	14	10	3/4"	10
1/2"	RV0.BFF.200	16	10	1"	15
3/4"	RV0.BFF.250	19	10	1 1/4"	25
1"	RV0.BFF.320	22	10	1 1/2"	34
1 1/4"	RV0.BFF.400	16	12	2"	57
1 1/2"	RV0.BFF.500	31	14	2 1/4"	78
2"	RV0.BFF.630	38	18	2 3/4"	134
2 1/2"	RV0.BFF.750	44	18	3 1/2"	205
3"	RV0.BFF.900	51	18	4"	270
4"	RV0.BFF.910	61	18	5"	465

Union End threaded

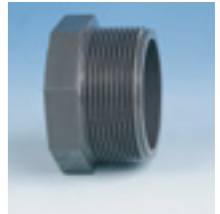
RV0.BLF



G	Code	L	Z	d	d ₁	Gr.
3/8"	RV0.BLF.160	14	3	22.0	24.0	6
1/2"	RV0.BLF.200	16	3	27.5	30.1	9
3/4"	RV0.BLF.250	19	3	36.0	38.8	16
1"	RV0.BLF.320	22	3	41.5	44.7	22
1 1/4"	RV0.BLF.400	27	3	53.0	56.5	40
1 1/2"	RV0.BLF.500	31	3	59.0	62.6	43
2"	RV0.BLF.630	38	3	74.0	78.4	80
2 1/2"	RV0.BLF.750	44	3	92.5	97.2	150
3"	RV0.BLF.900	51	5	105.0	110.0	195
4"	RV0.BLF.910	61	5	129.0	135.4	350

Plug threaded

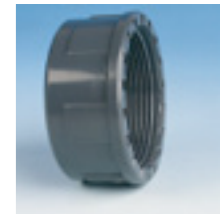
RV0.TAF



G	Code	L	H	E	Gr.
3/8"	RV0.TAF.160	11.4	22	22	4
1/2"	RV0.TAF.200	15.0	26	26	7
3/4"	RV0.TAF.250	16.3	30	32	13
1"	RV0.TAF.320	19.1	33	40	22
1 1/4"	RV0.TAF.400	21.4	41	51	44
1 1/2"	RV0.TAF.500	21.4	46	61	66
2"	RV0.TAF.630	25.7	55	75	112
2 1/2"	RV0.TAF.750	30.2	64	89	208
3"	RV0.TAF.900	33.3	73	106	325
4"	RV0.TAF.910	39.3	87	129	520

Cap threaded

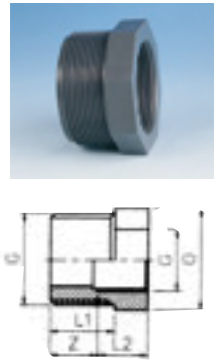
RV0.CAF



G	Code	L	H	E	Gr.
3/8"	RV0.CAF.160	11.4	22	22	4
1/2"	RV0.CAF.200	15.0	26	26	7
3/4"	RV0.CAF.250	16.3	30	32	13
1"	RV0.CAF.320	19.1	33	40	22
1 1/4"	RV0.CAF.400	21.4	41	51	44
1 1/2"	RV0.CAF.500	21.4	46	61	66
2"	RV0.CAF.630	25.7	55	75	112
2 1/2"	RV0.CAF.750	30.2	64	89	208
3"	RV0.CAF.900	33.3	73	106	325
4"	RV0.CAF.910	39.3	87	129	520

RV0.RCF

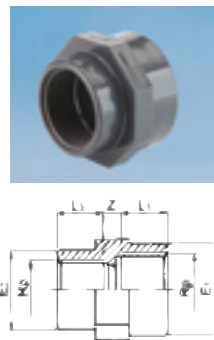
Reducing Bush



G	Code	L ₁	L ₂	Z	O	Gr.
3/4" x 1/2"	RV0.RCF.25B	16.3	15.0	13.3	30	13
1" x 3/4"	RV0.RCF.32C	19.1	16.3	14.8	36	20
1 1/4" x 1"	RV0.RCF.40D	21.4	19.1	16.3	46	35
1 1/2" x 1 1/4"	RV0.RCF.50E	21.4	21.4	14.0	55	37
2" x 1 1/2"	RV0.RCF.63F	25.7	21.4	18.3	65	67
2 1/2" x 2"	RV0.RCF.75G	30.2	25.7	20.5	80	135
3" x 2 1/2"	RV0.RCF.90H	33.3	30.2	20.1	95	160
4" x 3"	RV0.RCF.91I	39.3	33.3	24.0	120	380

RV0.MRF

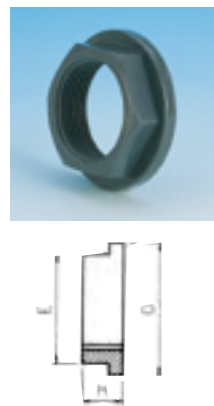
Threaded Reducing Socket Rp



G	Code	L ₁	L ₂	Z	E1	Gr.
1/2"	RV0.MRF.20A	15.0	11.4	6	28.0	23.0
3/4"	RV0.MRF.25B	16.3	15.0	7	34.0	28.0
1"	RV0.MRF.32C	19.1	16.3	7	42.0	34.0
1 1/4"	RV0.MRF.40D	21.4	19.1	8	51.0	42.0
1 1/2"	RV0.MRF.50E	21.4	21.4	8	58.0	51.0
2"	RV0.MRF.63F	25.7	21.4	8	72.0	58.0
2 1/2"	RV0.MRF.75G	30.2	25.7	8	89.0	72.0
3"	RV0.MRF.90H	33.3	30.2	9	103.0	89.0
4"	RV0.MRF.91I	39.3	33.3	10	130.0	103.0

RV0.DAF

Nut



G	Code	E	H	O	Gr.
1/2"	RV0.DAF.200	28	13	38	10
3/4"	RV0.DAF.250	33	14	43	12
1"	RV0.DAF.320	46	16	56	25
1 1/4"	RV0.DAF.400	50	18	65	30
1 1/2"	RV0.DAF.500	60	20	72	44
2"	RV0.DAF.630	80	21	93	88
2 1/2"	RV0.DAF.750	95	24	106	110
3"	RV0.DAF.900	110	28	125	171
4"	RV0.DAF.910	140	31	154	287

RV0.BNF

Barrel Nipple threaded



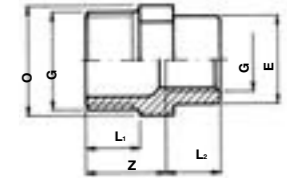
G	Code	L	H	Gr.
3/8"	RV0.BNF.160	14	44	11
1/2"	RV0.BNF.200	16	50	13
3/4"	RV0.BNF.250	19	56	20
1"	RV0.BNF.320	21	62	30
1 1/4"	RV0.BNF.400	24	75	51
1 1/2"	RV0.BNF.500	32	87	83
2"	RV0.BNF.630	29	87	119
2 1/2"	RV0.BNF.750	30	105	169
3"	RV0.BNF.900	37	128	243
4"	RV0.BNF.910	42	156	485

Reducing Bush threaded

RV0.RIF



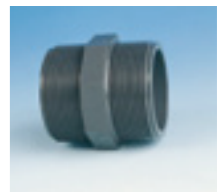
G x G	Code	L ₁	L ₂	Z	E	O	Gr.
1/2" x 3/8"	RV0.RIF.20A	15	11	24	23	24	12
3/4" x 3/8"	RV0.RIF.25A	16	11	25	23	30	16
3/4" x 1/2"	RV0.RIF.25B	16	15	26	28	30	20
1" x 3/8"	RV0.RIF.32A	19	15	25	25	36	24
1" x 1/2"	RV0.RIF.32B	19	15	29	28	36	26
1" x 3/4"	RV0.RIF.32C	19	16	30	34	36	26
1 1/4" x 1/2"	RV0.RIF.40B	21	15	33	28	46	42
1 1/4" x 3/4"	RV0.RIF.40C	21	16	33	34	46	43
1 1/4" x 1"	RV0.RIF.40D	21	19	33	42	46	46
1 1/2" x 3/4"	RV0.RIF.50C	21	16	34	34	50	46
1 1/2" x 1"	RV0.RIF.50D	21	19	34	42	50	50
1 1/2" x 1 1/4"	RV0.RIF.50E	21	21	34	51	55	60
2" x 1"	RV0.RIF.63D	25	19	37	42	65	85
2" x 1 1/4"	RV0.RIF.63E	25	21	37	51	65	85
2" x 1 1/2"	RV0.RIF.63F	25	21	37	58	65	87
2 1/2" x 1 1/4"	RV0.RIF.75E	30	21	43	51	80	140
2 1/2" x 1 1/2"	RV0.RIF.75F	30	21	43	58	80	138
2 1/2" x 2"	RV0.RIF.75G	30	25	43	72	80	142
3" x 1 1/2"	RV0.RIF.90F	33	21	47	58	95	200
3" x 2"	RV0.RIF.90G	33	25	47	72	95	205
3" x 2 1/2"	RV0.RIF.90H	33	30	47	89	95	215
4" x 2"	RV0.RIF.91G	39	25	53	72	120	325
4" x 2 1/2"	RV0.RIF.91H	39	30	53	89	120	330
4" x 3"	RV0.RIF.91I	39	33	53	103	120	350



Hexagonal Nipple

RV0.NIF

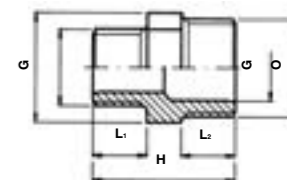
G	Code	L	H	O	Gr.
3/8"	RV0.NIF.160	11	32	19	9
1/2"	RV0.NIF.200	11	42	24	9
3/4"	RV0.NIF.250	15	42	30	11
1"	RV0.NIF.320	16	50	36	18
1 1/4"	RV0.NIF.400	19	58	47	28
1 1/2"	RV0.NIF.500	21	58	50	46
2"	RV0.NIF.630	21	66	65	105
2 1/2"	RV0.NIF.750	25	80	80	148
3"	RV0.NIF.900	30	85	95	225
4"	RV0.NIF.910	33	97	120	350



Reducing Nipple

RV0.NRF

G x G	Code	L ₁	L ₂	H	O	Gr.
1/2" x 3/8"	RV0.NRF.20A	15.0	11.4	38	24	11
3/4" x 1/2"	RV0.NRF.25B	16.3	15.0	43	30	17
1" x 3/4"	RV0.NRF.32C	19.1	16.3	47	36	26
1 1/4" x 1"	RV0.NRF.40D	21.4	19.1	56	46	42
1 1/2" x 1 1/4"	RV0.NRF.50E	21.4	21.4	58	50	48
2" x 1 1/2"	RV0.NRF.63F	25.7	21.4	62	65	81
2 1/2" x 2"	RV0.NRF.75G	30.2	25.7	73	80	138
3" x 2 1/2"	RV0.NRF.90H	33.3	30.2	82	95	208
4" x 3"	RV0.NRF.91I	39.3	33.3	90	120	339



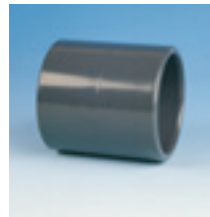
RV0.PGF



Hose Adaptor threaded

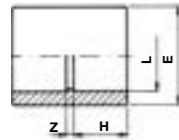
D	Code	L	H	d ₁	d ₂	Gr.
3/8" x 18 x 16	RV0.PGF.160	11.5	64	16	18	13
1/2" x 22 x 20	RV0.PGF.200	15.3	70	20	22	18
3/4" x 27 x 25	RV0.PGF.250	16.8	77	25	27	30
1" x 32 x 30	RV0.PGF.320	19.9	80	32	34	47
1 1/4" x 42 x 40	RV0.PGF.400	21.8	91	40	42	68
1 1/2" x 52 x 50	RV0.PGF.500	22.9	98	50	52	116
2" x 64 x 60	RV0.PGF.630	25.8	117	60	63	189

RV0.MAT

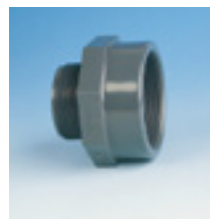


Adaptor Socket BS/ISO

Inch/Metric	Code	H	Z	E	Gr.
3/8" x 16	RV0.MAT.16A	14.5	2	23	9
1/2" x 20	RV0.MAT.20B	16.5	2	28	15
3/4" x 25	RV0.MAT.25C	19.5	2	34	23
1" x 32	RV0.MAT.32D	22.5	2	42	36
1 1/4" x 40	RV0.MAT.40E	27.0	1	51	57
1 1/2" x 50	RV0.MAT.50F	30.0	5	61	84
2" x 63	RV0.MAT.63G	36.0	7	75	142
2 1/2" x 75	RV0.MAT.750	44.0	4	89	222
3" x 90	RV0.MAT.90I	50.5	6	106	353
4" x 110	RV0.MAT.91L	63.0	2	129	605

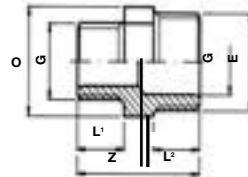


RV0.MGF



Reducer Female-Male Threaded

G x G	Code	L ₁	L ₂	Z	O	G
3/8" x 1/2"	RV0.MGF.16B	11,4	15,0	22	30	16
1/2" x 3/4"	RV0.MGF.20C	15,0	16,3	24	36	22
3/4" x 1"	RV0.MGF.25D	16,3	19,1	26	46	37
1" x 1 1/4"	RV0.MGF.32E	19,1	21,4	30	55	59
1 1/4" x 1 1/2"	RV0.MGF.40F	21,4	21,4	33	60	74
1 1/2" x 2"	RV0.MGF.50G	21,4	25,7	34	75	110
2" x 2 1/2"	RV0.MGF.63H	25,7	30,2	38	90	187
2 1/2" x 3"	RV0.MGF.75I	30,2	33,3	44	105	262
3" x 4"	RV0.MGF.90L	33,3	39,3	48	130	350



PVC-U METRIC

PVC-U Fittings

Applications

TP (formerly known as Tecno Plastic) is a dedicated brand of PVC fittings and valves for water piping systems. Each TP product is designed to meet the demands of the customers in specific application areas such as distribution, treatment and sewage water, public and private swimming pools, thermal pools and spas, aquariums and aquaculture, irrigation and fountains.

Range

TP full range of fittings is available in following ranges: metric for solvent cement from 16 mm to 225 mm, BSP threaded from 3/8" to 6", adaptor set from 16x3/8" to 160x6".

MECHANICAL PROPERTIES

Max working pressure in Bar

Series	Dimensions	PN
Solvent jointing	from d 16 to d 200	16
	from d 225 to d 315	10
Threaded	from 3/8" to 6"	16
Adaptor range	from D 16 to D 160	16

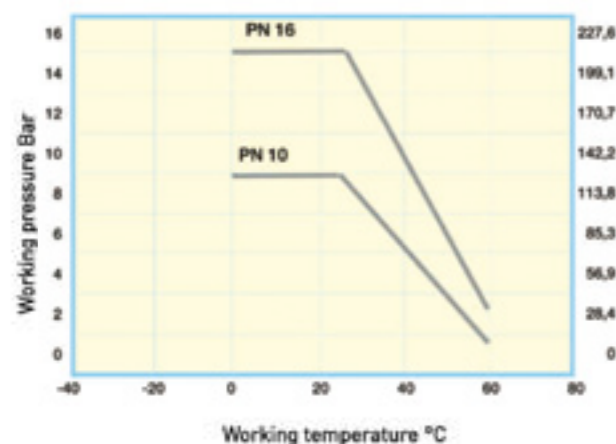
Sanitary regulations

Our fittings, as well as applied raw material, are suitable for drinkable water and foodstuffs fluids in accordance either to the Italian National Authorities laws (D.M.174, 6th april 2004), or other international organizations.

Materials

The PVC-U compound used by TP is stabilised unplasticized polyvinyl chloride. Material chemical resistances according to ISO/TR 10358.

PRESSURE-TEMPERATURE RELATIONSHIP ACCORDING TO DIN 3441 BLATT 1 AND EN 1452/3/5



Standards

The raw material applied for TP products is in compliance with international standards mentioned in the table "PHYSICAL PROPERTIES OF PVC-U".

TP fittings are in compliance with the main international standards too, like ISO EN 1452-3, NF & KIWA, so that they can be combined with pipes according to the main international standards.

SAFETY FACTORS AT 20°C FOR PN 16 FITTINGS

Working pressure	Hours		Corresponding to 50 years life
	1	1000	
10 Bar	6,7	5,1	4,0
16 Bar DN≤160	4,2	3,2	2,5
16 Bar DN>160	3,36	2,56	2

Gaskets

Standard Gaskets for unions and stubs are in EPDM (ethylene - polypropylene rubber).

PHYSICAL PROPERTIES OF PVC-U

Characteristics	Standard	Units	PVC
Density	ISO 1183	kg/dm ³	1,40
Elongation	ISO R527	%	154
Modulus of elasticity	ISO R527	MPa	2.600
Resistance to traction	ISO R527	MPa	40
Tensile strength	ISO R527	MPa	44
Vicat softening point with 5 Kgs	ISO 306	°C	→ 76
Thermal conductivity 23°C	ASTM C177	$\frac{w}{mk}$	0,13+0,19
Coefficient of linear expansion	ASTM D696 UNI 6061	$\frac{mm}{mm \cdot ^\circ C}$	5-8x10 ⁻⁵
Water absorption	UNI 7449-75	mg/cm ²	← 0,1
Meets fire regulations	UL94		V-0
Ash content	UNI 7449-75	%	← 3
Colour			9735

PVC-U Fittings

PIPE-FITTINGS TOLLERANCES FOR SOLVENT JOINTING ACCORDING TO:

Fittings: ISO 727 - EN 1452/2/3 - DIN 8063 - KIWA 54 NF T54-028

Pipes: ISO 161 - EN 1452/2 - DIN 8062 - KIWA 49 NF T54-016

Nominal DN	D	male fittings outside diam.		female fittings inside diam.	
		Min.	Max.	Min.	Max.
10	16	16	16,20	16,10	16,30
15	20	20	20,20	20,10	20,30
20	25	25	25,20	25,10	25,30
25	32	32	32,20	32,10	32,30
32	40	40	40,20	40,10	40,30
40	50	50	50,20	50,10	50,30
50	63	63	63,20	63,10	63,30
65	75	75	75,30	75,10	75,30
80	90	90	90,30	90,10	90,30
100	110	110	110,30	110,10	110,40
110	125	125	125,30	125,10	125,40
125	140	140	140,40	140,20	140,50
150	160	160	160,40	160,20	160,50
200	200	200	200,50	200,30	200,60
200	225	225	225,50	225,30	225,60

DIMENSIONS OF THREAD ACCORDING TO:

UNI ISO 7-1 - BS 21 - DIN 2999 (parallel threaded sockets)

Nominal diameter G	Outside thread diameter	Pitch n° of threads/1"	Thread depth mm	Thread assembling length	
					3/8"
1/2"	20,95	14	1,814	1,162	15,0
3/4"	26,44	14	1,814	1,162	16,3
1"	33,25	11	2,309	1,479	19,1
1 1/4"	41,91	11	2,309	1,479	21,4
1 1/2"	47,80	11	2,309	1,479	21,4
2"	59,61	11	2,309	1,479	25,7
2 1/4"	65,71	11	2,309	1,479	-
2 1/2"	75,18	11	2,309	1,479	30,2
2 3/4"	81,53	11	2,309	1,479	-
3"	87,88	11	2,309	1,479	33,3
4"	113,03	11	2,309	1,479	39,3
5"	138,43	11	2,309	1,479	43,6
6"	163,83	11	2,309	1,479	43,6

Assembly instructions

METRIC SET FOR SOLVENT CEMENT JOINTING

TP fittings in rigid PVC-UH of metric range can be glued to each other and with pipes of same material provided that the pipe dimension and tolerances are in accordance with the mentioned standard. A strong dense-type glue is recommended, especially for glueing large diameters, where the clearance may be high due to the ovalization effect; such clearance, anyhow, in order to guarantee a perfect seal, should never exceed 0,6 mm with a dense type glue and 0,3 mm with a fluid-type glue.

In order to obtain a perfect gluing it is recommended that the glue manufacturer's instructions be strictly followed. These instructions can be summarized as follows:

- remove all traces of grease, oil or simply dust from both the pipe (properly cut at 90° and bevelled at the top) and the fitting by means of a clean cloth soaked in cleaner.
- apply, by a suitable brush, a uniform layer of glue, both to the fitting and to the pipe, and cover the entire surface to be glued;
- immediately (in 1 to 2 minutes) insert the part to be glued in the female fitting;
- it is recommended that all glue in excess, which flows out of the coupling, to be quickly removed.

It is also recommended that freshly glued parts should not be submitted to mechanical stresses.

The glue manufacturer's instructions concerning how long to wait before handling, sticking and pressure testing the system should be carefully followed.

Generally speaking, none of these operations should take place in the 24 hours following the glueing.

THREADED SERIES

TP fittings in rigid PVC-UH of the threaded series or of the adaptor series can be screwed to each other or to pipe and other threaded parts in other materials in accordance with the rules given.

In order to obtain easy screwing and perfect sealing, the use of high quality PTFE tape is recommended in quantity sufficient to avoid clearance without causing too tight shutting.

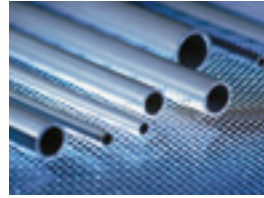
The use of hemp, tow and lint, usually employed for metal fittings, should be avoided.

Such materials, contrary to what happens with PTFE, are not rejected by the coupling even when used in excess, making the female fitting expand in such a way as to cause breakages both during the assembly stage and later, during operation.

The information set forth are purely indicative, we therefore recommend to comply to laws and regulations relating to the various countries (ex: UNI 11242 Jointing by cementing pipes, fittings and valves PVC-U).

RV0.CMC

PVC-U Pipe 10 bar



D	Code	L (m)
32	RV0.CMC.320	5
40	RV0.CMC.400	5
50	RV0.CMC.500	5
63	RV0.CMC.630	5
75	RV0.CMC.750	6
90	RV0.CMC.900	5
110	RV0.CMC.910	5
125	RV0.CMC.920	5
140	RV0.CMC.930	5
160	RV0.CMC.940	5
200	RV0.CMC.960	5
225	RV0.CMC.970	5
250	RV0.CMC.980	5
315	RV0.CMC.991	5

PLEASE NOTE:
75mm PN10 pipe is supplied in 6m lengths

RV0.CME

PVC-U Pipe 16 bar



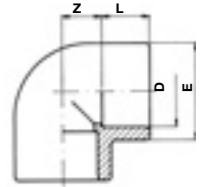
D	Code	L (m)
16	RV0.CME.160	5
20	RV0.CME.200	5
25	RV0.CME.250	5
32	RV0.CME.320	5
40	RV0.CME.400	5
50	RV0.CME.500	5
63	RV0.CME.630	5
75	RV0.CME.750	5
90	RV0.CME.900	5
110	RV0.CME.910	5
125	RV0.CME.920	5

90° Elbow

RV0.GOI

D	Code	L	Z	E	Gr.
16	RV0.GOI.160	14	9	22	9
20	RV0.GOI.200	16	11	26	15
25	RV0.GOI.250	19	14	32	25
32	RV0.GOI.320	22	17	40	41
40	RV0.GOI.400	26	21	51	90
50	RV0.GOI.500	31	26	61	140
63	RV0.GOI.630	38	33	75	222
75	RV0.GOI.750	44	39	89	375
90	RV0.GOI.900	51	47	106	600
110	RV0.GOI.910	61	57	129	1060
125	RV0.GOI.920	69	66	145	1415
140	RV0.GOI.930	76	72	163	2050
160	RV0.GOI.940	86	82	190	3450
*200	RV0.GOI.960	106	102	228	4700
*225	RV0.GOI.970	119	115	255	5900
*250	RV0.GOI.980	131	188	286	12150
*315	RV0.GOI.991	164	239	358	23500

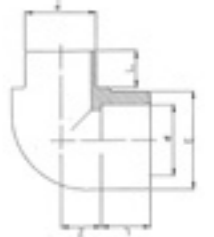
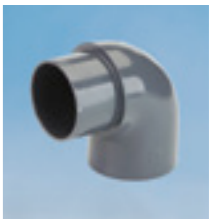
* maximum working pressure: 9 bar at 20°C



90° Elbow M/F

RV0.GPI

D	Code	L	L ₁	Z	E
50	RV0.GPI.500	31	31	26	61
63	RV0.GPI.630	38	38	33	75

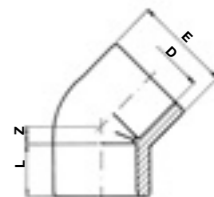
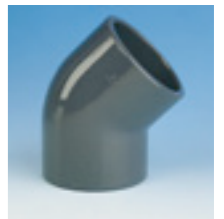


45° Elbow

RV0.GYI

D	Code	L	Z	E	Gr.
16	RV0.GYI.160	14	5	23	10
20	RV0.GYI.200	16	5	28	17
25	RV0.GYI.250	19	6	34	29
32	RV0.GYI.320	22	8	42	47
40	RV0.GYI.400	26	10	51	77
50	RV0.GYI.500	31	12	61	113
63	RV0.GYI.630	38	14	75	190
75	RV0.GYI.750	44	17	89	310
90	RV0.GYI.900	51	20	106	486
110	RV0.GYI.910	61	24	129	836
125	RV0.GYI.920	69	27	145	1080
140	RV0.GYI.930	76	31	163	1525
160	RV0.GYI.940	86	35	185	2250
*200	RV0.GYI.960	106	43	228	3500
*225	RV0.GYI.970	119	49	255	5755
*250	RV0.GYI.980	131	58	287	7680
*315	RV0.GYI.991	164	66	360	14480

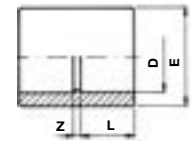
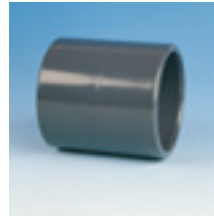
* maximum working pressure: 9 bar at 20°C



PVC-U

RV0.MAI

Socket

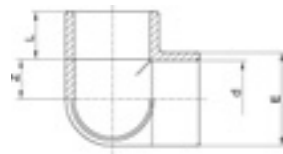
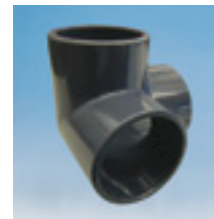


D	Code	L	Z	E	Gr.
16	RV0.MAI.160	14	3	22	6
20	RV0.MAI.200	16	3	26	10
25	RV0.MAI.250	19	3	32	16
32	RV0.MAI.320	22	3	40	27
40	RV0.MAI.400	26	3	48	43
50	RV0.MAI.500	31	3	60	78
63	RV0.MAI.630	38	3	74	120
75	RV0.MAI.750	44	4	89	222
90	RV0.MAI.900	51	5	106	353
110	RV0.MAI.910	61	6	129	605
125	RV0.MAI.920	69	7	145	840
140	RV0.MAI.930	76	8	162	1100
160	RV0.MAI.940	86	8	184	1540
*200	RV0.MAI.960	106	10	227	2600
*225	RV0.MAI.970	119	10	225	3520
*250	RV0.MAI.980	131	10	287	5800
*315	RV0.MAI.991	164	12	355	9820

* maximum working pressure: 9 bar at 20°C

RV0.GTI

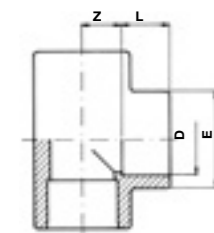
Three Way Elbow



D	Code	E	L	Z
50	RV0.GTI.500	61	31	26
63	RV0.GTI.630	75	38	33

RV0.TII

90° Tee



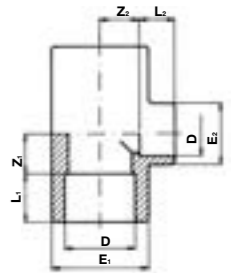
D	Code	L	Z	E	Gr.
16	RV0.TII.160	14	9	22	12
20	RV0.TII.200	16	11	26	20
25	RV0.TII.250	19	14	32	34
32	RV0.TII.320	22	17	40	54
40	RV0.TII.400	26	21	51	127
50	RV0.TII.500	31	26	61	184
63	RV0.TII.630	38	33	75	315
75	RV0.TII.750	44	39	89	494
90	RV0.TII.900	51	47	106	734
110	RV0.TII.910	61	57	129	1330
125	RV0.TII.920	69	66	148	2100
140	RV0.TII.930	76	72	163	2730
160	RV0.TII.940	86	82	190	4350
*200	RV0.TII.960	106	102	228	6540
*225	RV0.TII.970	119	115	255	8100
*250	RV0.TII.980	131	128	286	13250
*315	RV0.TII.991	161	162	360	24350

* maximum working pressure: 9 bar at 20°C

90° Reducing Tee

RV0.TRI

D x D	Code	L ₁	L ₂	Z ₁	Z ₂	E ₁	E ₂	Gr.
20 x 16	RV0.TRI.20A	16	14	11	11	28	23	16
25 x 16	RV0.TRI.25A	19	14	14	14	34	23	41
25 x 20	RV0.TRI.25B	19	16	14	14	34	28	42
32 x 16	RV0.TRI.32A	22	14	17	17	42	23	68
32 x 20	RV0.TRI.32B	22	16	17	17	42	28	69
32 x 25	RV0.TRI.32C	22	19	17	17	42	34	70
40 x 20	RV0.TRI.40B	26	16	21	21	51	28	105
40 x 25	RV0.TRI.40C	26	19	21	21	51	34	107
40 x 32	RV0.TRI.40D	26	22	21	21	51	42	112
50 x 20	RV0.TRI.50B	31	16	26	26	61	28	156
50 x 25	RV0.TRI.50C	31	19	26	26	61	34	157
50 x 32	RV0.TRI.50D	31	22	26	26	61	42	162
50 x 40	RV0.TRI.50E	31	26	26	26	61	51	168
63 x 20	RV0.TRI.63B	38	16	33	33	75	28	268
63 x 25	RV0.TRI.63C	38	19	33	33	75	34	270
63 x 32	RV0.TRI.63D	38	22	33	33	75	42	274
63 x 40	RV0.TRI.63E	38	26	33	33	75	51	277
63 x 50	RV0.TRI.63F	38	31	33	33	75	61	278
75 x 32	RV0.TRI.75D	44	22	39	39	89	42	463
75 x 40	RV0.TRI.75E	44	26	39	39	89	51	465
75 x 50	RV0.TRI.75F	44	31	39	39	89	61	464
75 x 63	RV0.TRI.75G	44	38	39	39	89	75	478
90 x 40	RV0.TRI.90E	51	26	47	47	106	51	702
90 x 50	RV0.TRI.90F	51	31	47	47	106	61	703
90 x 63	RV0.TRI.90G	51	38	47	47	106	75	713
90 x 75	RV0.TRI.90H	51	44	47	47	106	89	731
110 x 50	RV0.TRI.91F	61	31	57	57	129	61	1245
110 x 63	RV0.TRI.91G	61	38	57	57	129	75	1250
110 x 75	RV0.TRI.91H	61	44	57	57	129	89	1255
110 x 90	RV0.TRI.91I	61	51	57	57	129	106	1297
125 x 50	RV0.TRI.92F	69	31	66	66	148	61	1930
125 x 63	RV0.TRI.92G	69	38	66	66	148	75	1955
125 x 75	RV0.TRI.92H	69	44	66	66	148	89	1980
125 x 90	RV0.TRI.92I	69	51	66	66	148	106	2020
125 x 110	RV0.TRI.92L	69	61	66	66	148	129	2060
160 x 90	RV0.TRI.94I	86	51	82	82	190	106	3790
160 x 110	RV0.TRI.94L	86	61	82	82	190	129	3840
160 x 125	RV0.TRI.94M	86	69	82	82	190	148	3890
160 x 140	RV0.TRI.94N	86	76	82	82	190	163	3940

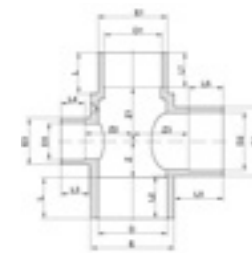


Adaptor Cross

RV0.TCI

E x D1 x D2 x D3	Code	E	E ₁	E ₂	E ₂	D	D ₁	D ₂	D ₃	Z	Z ₁
90 x 63 x 63 x 40	RV0.TCI.900	90	75.0	75.0	50.0	75	63	63	40	39	58

Z ₂	Z ₃	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆
51.5	60	44	38	46	31	26	53	38



* maximum working pressure: 9 bar at 20°C

RV0.TDI

Manifold Tee

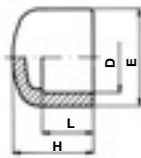
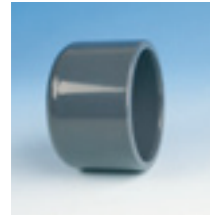


E x D1 x D2	Code	E	E ₁	E ₂	D	D ₁	D ₂	Z	Z ₁	Z ₂
90 x 63 x 40	RV0.TDI.900	90	75.0	50.0	75	63	40	39	58	51
140 x 110 x 50	RV0.TDI.930	140	125.0	63.0	125	110	50	47	47	79

L	L ₂	L ₃	L ₄	L ₅	L ₆
44	31	26	46	44	38
61	38	31	75	61	61

RV0.CAI

Cap

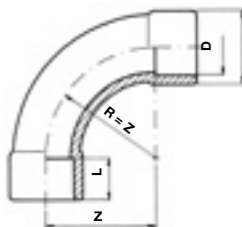


D	Code	L	H	E	Gr.
16	RV0.CAI.160	14	22	22	4
20	RV0.CAI.200	16	26	26	7
25	RV0.CAI.250	19	30	32	13
32	RV0.CAI.320	22	33	40	22
40	RV0.CAI.400	26	41	51	44
50	RV0.CAI.500	31	46	61	66
63	RV0.CAI.630	38	55	75	112
75	RV0.CAI.750	44	64	89	208
90	RV0.CAI.900	51	73	106	325
110	RV0.CAI.910	61	87	129	520
125	RV0.CAI.920	69	98	145	640
140	RV0.CAI.930	76	108	162	880
160	RV0.CAI.940	86	123	182	1120
*200	RV0.CAI.960	106	149	228	2115
*225	RV0.CAI.970	119	119	256	3800

* maximum working pressure: 9 bar at 20°C

RV0.CUI

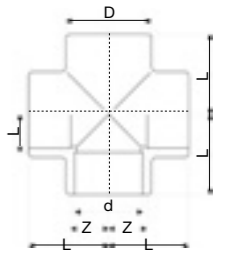
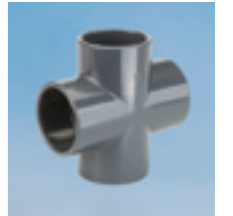
90° Bend



D	Code	L	Z	E	Gr.
20	RV0.CUI.200	16	40	29	30
25	RV0.CUI.250	19	50	36	50
32	RV0.CUI.320	22	64	43	92
40	RV0.CUI.400	26	80	54	165
50	RV0.CUI.500	31	100	61	270
63	RV0.CUI.630	38	126	76	490
75	RV0.CUI.750	44	150	94	990
90	RV0.CUI.900	51	180	113	1600
110	RV0.CUI.910	61	220	137	2856

Cross 90°

RV0.CRI

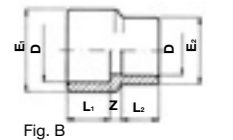


D	Code	L	Z	D
20	RV0.CRI.200	16	11	27.5
25	RV0.CRI.250	19	14	33.5
32	RV0.CRI.320	22	17	42.0
40	RV0.CRI.400	26	21	51.0
50	RV0.CRI.500	31	26	61.0
63	RV0.CRI.630	38	33	75.0
75	RV0.CRI.750	44	40	91.0
90	RV0.CRI.900	51	46	106.0
110	RV0.CRI.910	61	56	129.5

* maximum working pressure: 9 bar at 20°C

Reducing Socket

RV0.MRI

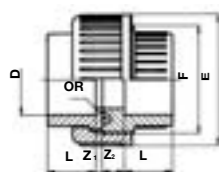
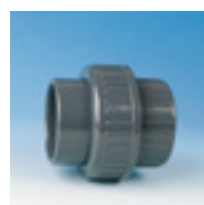


D x D	Code	L ₁	L ₂	Z	E ₁	E ₂	Fig	Gr.
20 x 16	RV0.MRI.20A	16	14	6	28	23	B	14
25 x 20	RV0.MRI.25B	19	16	6	34	28	B	22
32 x 25	RV0.MRI.32C	22	19	6	42	34	B	35
40 x 32	RV0.MRI.40D	26	22	6	51	42	B	53
50 x 40	RV0.MRI.50E	31	26	6	61	51	B	81
63 x 50	RV0.MRI.63F	38	31	6	75	61	B	120
75 x 63	RV0.MRI.75G	44	38	4	89	75	A	211
90 x 75	RV0.MRI.90H	51	44	5	106	89	A	345
110 x 90	RV0.MRI.91I	61	51	6	129	106	A	550
125 x 110	RV0.MRI.92L	69	61	24	145	129	B	740
140 x 110	RV0.MRI.93L	76	61	25	160	129	B	970
140 x 125	RV0.MRI.93M	76	69	19	160	145	B	1040
160 x 110	RV0.MRI.94L	86	61	24	181	130	B	1220
160 x 140	RV0.MRI.94N	86	76	8	184	162	B	1350
*200 x 160	RV0.MRI.96O	106	86	24	227	184	B	2360
*225 x 200	RV0.MRI.97Q	119	106	10	255	227	B	3220

* maximum working pressure: 9 bar at 20°C

RV0.BOI

Union with O ring EPDM

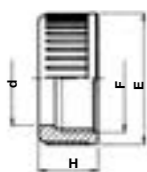


D	Code	L	Z ₁	Z ₂	F	E	O-Ring	Gr.
16	RV0.BOI.160	14	3	10	3/4"	34	3062	25
20	RV0.BOI.200	16	3	10	1"	42	4081	42
25	RV0.BOI.250	19	3	10	1 1/4"	52	4112	66
32	RV0.BOI.320	22	3	10	1 1/2"	59	4131	92
40	RV0.BOI.400	16	3	12	1 1/4"	73	6162	160
50	RV0.BOI.500	31	3	14	2"	82	6187	200
63	RV0.BOI.630	38	3	18	2 1/4"	100	6237	350
*75	RV0.BOI.750	44	3	18	2 3/4"	119	6312	575
*90	RV0.BOI.900	51	5	18	4"	134	6362	765
*110	RV0.BOI.910	61	5	18	5"	163	6450	1285

* maximum working pressure: 10 bar at 20°C

RV0.BGO

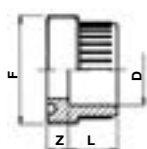
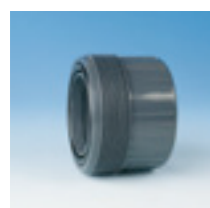
Union Nut



D	Code	d	H	F	E	GR
3/8"	16 RV0.BGO.160	22.1	21	3/4"	34	13
1/2"	20 RV0.BGO.200	27.6	23	1"	42	15
3/4"	25 RV0.BGO.250	36.1	25	1 1/4"	52	25
1"	32 RV0.BGO.320	41.6	27	1 1/2"	59	35
1 1/4"	40 RV0.BGO.400	53.1	30	1 1/4"	72	60
1 1/2"	50 RV0.BGO.500	59.1	34	2"	79	80
2"	63 RV0.BGO.630	74.1	38	2 1/4"	96	130
2 1/2"	75 RV0.BGO.750	92.6	45	2 3/4"	119	200
3"	90 RV0.BGO.900	105.1	52	4"	134	285
4"	110 RV0.BGO.910	129.2	60	5"	163	445

RV0.BFI

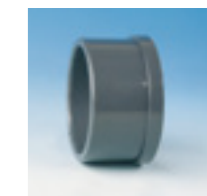
Union Bush



D	Code	L	Z	F	GR
16	RV0.BFI.160	14	10	3/4"	10
20	RV0.BFI.200	16	10	1"	15
25	RV0.BFI.250	19	10	1 1/4"	25
32	RV0.BFI.320	22	10	1 1/2"	34
40	RV0.BFI.400	16	12	1 1/4"	57
50	RV0.BFI.500	31	14	2"	78
63	RV0.BFI.630	38	18	2 1/4"	134
75	RV0.BFI.750	44	18	2 3/4"	205
90	RV0.BFI.900	51	18	4"	270
110	RV0.BFI.910	61	18	5"	465

Union End

RV0.BLI



D	Code	L	Z	d	d ₁	Gr.
16	RV0.BLI.160	14	3	22.0	24.0	6
20	RV0.BLI.200	16	3	27.5	30.1	9
25	RV0.BLI.250	19	3	36.0	38.8	16
32	RV0.BLI.320	22	3	41.5	44.7	22
40	RV0.BLI.400	16	3	53.0	56.5	40
50	RV0.BLI.500	31	3	59.0	62.6	43
63	RV0.BLI.630	38	3	74.0	78.4	80
75	RV0.BLI.750	44	3	92.5	97.2	150
90	RV0.BLI.900	51	5	105.0	110.0	195
110	RV0.BLI.910	61	5	129.0	135.4	350

Reducing Bush

RV0.RCI

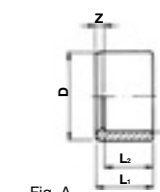
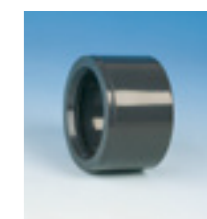


Fig. A

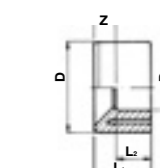


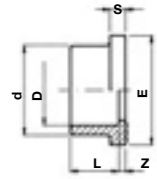
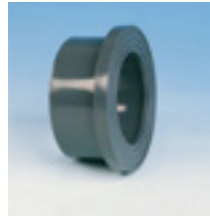
Fig. B

D x D	Code	L ₁	L ₂	Z	Fig	Gr.
20 x 16	RV0.RCI.20A	16	14	2	A	3
25 x 16	RV0.RCI.25A	19	14	5	B	8
25 x 20	RV0.RCI.25B	19	16	3	A	5
32 x 16	RV0.RCI.32A	22	14	8	B	15
32 x 20	RV0.RCI.32B	22	16	6	B	15
32 x 25	RV0.RCI.32C	22	19	3	A	10
40 x 20	RV0.RCI.40B	26	16	10	B	25
40 x 25	RV0.RCI.40C	26	19	7	B	26
40 x 32	RV0.RCI.40D	26	22	4	A	16
50 x 25	RV0.RCI.50C	31	19	12	B	44
50 x 32	RV0.RCI.50D	31	22	9	B	41
50 x 40	RV0.RCI.50E	31	26	5	A	30
63 x 32	RV0.RCI.63D	38	22	16	B	83
63 x 40	RV0.RCI.63E	38	26	12	B	78
63 x 50	RV0.RCI.63F	38	31	7	A	61
75 x 40	RV0.RCI.75E	44	26	18	B	120
75 x 50	RV0.RCI.75F	44	31	13	B	122
75 x 63	RV0.RCI.75G	44	38	6	A	80
90 x 50	RV0.RCI.90F	51	31	20	B	210
90 x 63	RV0.RCI.90G	51	38	13	B	195
90 x 75	RV0.RCI.90H	51	44	7	A	140
110 x 63	RV0.RCI.91G	61	38	23	B	372
110 x 75	RV0.RCI.91H	61	44	17	B	370
110 x 90	RV0.RCI.91I	61	51	10	A	273
125 x 75	RV0.RCI.92H	69	44	25	B	412
125 x 90	RV0.RCI.92I	69	51	18	B	450
125 x 110	RV0.RCI.92L	69	61	8	A	273
140 x 90	RV0.RCI.93I	76	51	25	B	550
140 x 110	RV0.RCI.93L	76	61	15	B	510
140 x 125	RV0.RCI.93M	76	69	7	A	320
160 x 110	RV0.RCI.94L	86	61	25	B	820
160 x 125	RV0.RCI.94M	86	69	17	B	725
160 x 140	RV0.RCI.94N	86	76	10	A	555
180 x 160	RV0.RCI.95O	96	86	10	A	710
200 x 160	RV0.RCI.96O	106	86	10	A	1645
*200 x 180	RV0.RCI.96P	106	96	10	A	870
*225 x 160	RV0.RCI.97O	119	86	33	B	2300
*225 x 200	RV0.RCI.97Q	119	106	13	A	1360
*250 x 200	RV0.RCI.98Q	134	107	27	B	2700
*250 x 222	RV0.RCI.98R	132	120	12	A	2100
*315 x 200	RV0.RCI.991Q	165	107	58	B	5000
*315 x 225	RV0.RCI.991R	165	132	33	B	4500
*315 x 250	RV0.RCI.991S	165	132	33	B	4100

* maximum working pressure: 9 bar at 20°C

RV0.QRI

Stub Flange serrated face



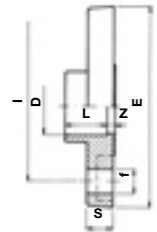
D	Code	L	Z	d	S	E	Gr.
20	RV0.QRI.200	16	3	27	6	34	10
25	RV0.QRI.250	19	3	33	7	41	16
32	RV0.QRI.320	22	3	41	7	50	25
40	RV0.QRI.400	26	3	50	8	61	40
50	RV0.QRI.500	31	3	61	8	73	60
63	RV0.QRI.630	38	3	76	9	90	105
75	RV0.QRI.750	44	3	90	10	106	160
90	RV0.QRI.900	51	5	108	11	125	277
110	RV0.QRI.910	61	5	131	12	150	442
125	RV0.QRI.920	69	5	147	13	168	570
140	RV0.QRI.930	76	5	165	14	188	750
160	RV0.QRI.940	86	5	188	16	213	1046
*200	RV0.QRI.960	106	7	232	18	254	2000
*225	RV0.QRI.970	119	7	248	19	274	1700
*315	RV0.QRI.991	164	11	346	27	379	4834

* maximum working pressure: 9 bar at 20°C

Backing Ring & gaskets available see Accessories section.

RV0.FFI

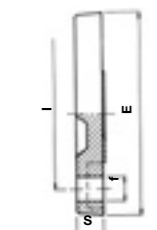
Fixed Flange NP10-16 drilled to BS 4504



D	Code	L	Z	E	S	I	f	Holes	Bolts	Gr.
20	RV0.FFI.200	16	4.5	95	11	65	14	4	M12 x 45	70
25	RV0.FFI.250	19	4.5	105	12	75	14	4	M12 x 50	105
32	RV0.FFI.320	22	4.5	115	14	85	14	4	M12 x 50	145
40	RV0.FFI.400	26	4.5	140	15	100	18	4	M16 x 55	220
50	RV0.FFI.500	31	4.5	150	16	110	18	4	M16 x 60	270
63	RV0.FFI.630	38	4.5	165	18	125	18	4	M16 x 65	380
75	RV0.FFI.750	44	6.0	185	19	145	18	4	M16 x 70	505
90	RV0.FFI.900	51	7.0	200	20	160	18	8	M16 x 70	685
110	RV0.FFI.910	61	8.0	220	22	180	18	8	M16 x 80	940
160	RV0.FFI.940	61	8.6	240	28	240	18	8	M20 x 100	1640

RV0.FCI

Blank Flange NP10-16



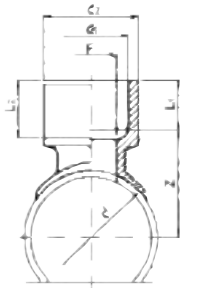
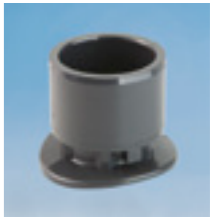
D	Code	E	S	I	f	Holes	Bolts	Gr.
20	RV0.FCI.200	95	11	65	14	4	M12 x 55	73
25	RV0.FCI.250	105	12	75	14	4	M12 x 60	95
32	RV0.FCI.320	115	14	85	14	4	M12 x 60	135
40	RV0.FCI.400	140	15	100	18	4	M12 x 70	220
50	RV0.FCI.500	150	16	110	18	4	M16 x 75	270
63	RV0.FCI.630	165	18	125	18	4	M16 x 80	370
75	RV0.FCI.750	185	19	145	18	4	M16 x 90	495
90	RV0.FCI.900	200	20	160	18	8	M16 x 90	630
110	RV0.FCI.910	220	22	180	18	8	M16 x 100	800
125	RV0.FCI.920	230	24	190	18	8	M16 x 100	890
140	RV0.FCI.930	250	26	210	18	8	M16 x 110	1000
160	RV0.FCI.940	285	28	240	22	8	M20 x 120	1300
200	RV0.FCI.960	340	30	295	22	8	M20 x 120	1550
*225	RV0.FCI.970	340	30	295	22	8	M20 x 120	1550

* maximum working pressure: 9 bar at 20°C

Saddle Socket Male / Female

DV0.DEI

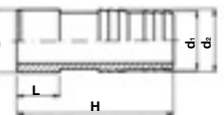
D x D1 x D2	Code	L ₁	L ₂	Z	P
50 x 32 x 40	DV0.DEI.50D	22	26	45	24
63 x 20 x 25	DV0.DEI.63B	16	19	49	14
63 x 32 x 40	DV0.DEI.63D	22	26	51	24
75 x 32 x 40	DV0.DEI.75D	22	26	57	24
90 x 32 x 40	DV0.DEI.90D	22	26	65	24
90 x 40 x 50	DV0.DEI.90E	26	31	68	30
90 x 50 x 63	DV0.DEI.90F	31	38	71	38
90 x 63 x 75	DV0.DEI.90G	38	44	70	48
110 x 40 x 50	DV0.DEI.91E	26	31	78	30
110 x 50 x 63	DV0.DEI.91F	31	38	81	38
110 x 63 x 75	DV0.DEI.91G	38	44	80	48
125 x 50 x 63	DV0.DEI.92F	31	38	88	38
125 x 63 x 75	DV0.DEI.92G	38	44	88	48
140 x 40 x 50	DV0.DEI.93E	26	31	93	30
140 x 50 x 63	DV0.DEI.93F	31	38	96	38
160 x 50 x 63	DV0.DEI.94F	31	38	106	38
160 x 63 x 75	DV0.DEI.94G	38	44	105	48
200 x 50 x 63	DV0.DEI.96F	31	38	126	38
200 x 63 x 75	DV0.DEI.96G	38	44	125	48
225 x 63 x 75	DV0.DEI.97G	38	44	138	48



Hose Adaptor

RV0.PGI

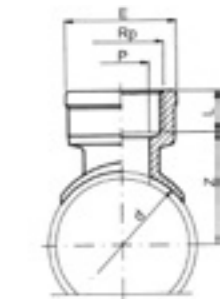
D	Code	£	L	H	d ₁	d ₂	Gr.
16 x 18 x 16	RV0.PGI.160	2.04	14	60	16	18	10
20 x 22 x 20	RV0.PGI.200	2.30	16	67	20	22	14
25 x 27 x 25	RV0.PGI.250	2.84	19	74	25	27	20
32 x 32 x 30	RV0.PGI.320	3.46	22	80	30	32	30
40 x 42 x 40	RV0.PGI.400	4.34	26	92	40	42	55
50 x 52 x 50	RV0.PGI.500	5.47	31	101	50	52	78
63 x 64 x 60	RV0.PGI.630	7.19	38	111	60	64	142



Saddle with female thread Rp

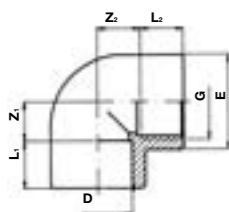
DV0.DEF

D x Rp	Code	L	Z	P	E
50 x 1/2"	DV0.DEF.50B	15.0	42.0	14	30.0
50 x 3/4"	DV0.DEF.50C	16.3	43.0	19	36.0
63 x 1/2"	DV0.DEF.63B	15.0	48.0	14	30.0
63 x 1"	DV0.DEF.63D	19.1	50.0	24	45.0
75 x 1/2"	DV0.DEF.75B	15.0	58.0	38	64.0
75 x 3/4"	DV0.DEF.75C	16.3	55.0	19	36.0
90 x 1/2"	DV0.DEF.90B	15.0	62.0	14	30.0
90 x 1"	DV0.DEF.90D	19.1	64.0	24	45.0
90 x 1 1/2"	DV0.DEF.90F	21.4	66.0	38	64.0
90 x 2"	DV0.DEF.90G	25.7	67.0	48	78.0
110 x 1/2"	DV0.DEF.91B	15.0	72.0	14	30.0
110 x 1"	DV0.DEF.91D	19.1	74.0	24	45.0
110 x 1 1/2"	DV0.DEF.91F	21.4	76.0	38	64.0
110 x 2"	DV0.DEF.91G	25.7	77.0	48	78.0
125 x 2"	DV0.DEF.92G	25.7	84.0	48	78.0
160 x 1 1/2"	DV0.DEF.94F	21.4	101.0	38	64.0
160 x 2"	DV0.DEF.94G	25.7	102.0	48	78.0
200 x 2"	DV0.DEF.96G	25.7	122.0	48	78.0



RV0.GOP

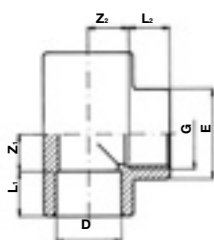
90° Elbow plain/threaded



D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E	Gr.
16 x 3/8"	RV0.GOP.16A	14	11.4	9	11.6	23	13
20 x 1/2"	RV0.GOP.20B	16	15.0	11	12.0	28	21
25 x 3/4"	RV0.GOP.25C	19	16.3	14	16.7	34	35
32 x 1"	RV0.GOP.32D	22	19.1	17	19.9	42	60
40 x 1 1/4"	RV0.GOP.40E	26	21.4	21	25.6	51	91
50 x 1 1/2"	RV0.GOP.50F	31	21.4	26	35.6	61	155
63 x 2"	RV0.GOP.63G	38	25.7	33	45.3	75	265
75 x 2 1/2"	RV0.GOP.75H	44	30.2	39	52.8	89	400
90 x 3"	RV0.GOP.90I	51	33.3	47	64.7	106	670
110 x 4"	RV0.GOP.91L	61	39.3	57	78.7	129	1055

RV0.TIP

90° Tee plain/threaded



D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E	Gr.
16 x 3/8"	RV0.TIP.16A	14	11.4	9	11.6	23	17
20 x 1/2"	RV0.TIP.20B	16	15.0	11	12.0	28	28
25 x 3/4"	RV0.TIP.25C	19	16.3	14	16.7	34	46
32 x 1"	RV0.TIP.32D	22	19.1	17	19.9	42	74
40 x 1 1/4"	RV0.TIP.40E	26	21.4	21	25.6	51	120
50 x 1 1/2"	RV0.TIP.50F	31	21.4	26	35.6	61	195
63 x 2"	RV0.TIP.63G	38	25.7	33	45.3	75	335
75 x 2 1/2"	RV0.TIP.75H	44	30.2	39	52.8	89	505
90 x 3"	RV0.TIP.90I	51	33.3	47	64.7	106	790
110 x 4"	RV0.TIP.91L	61	39.3	57	78.7	129	1325

RV0.MAP

Socket plain/threaded

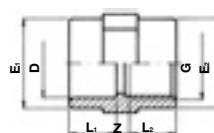
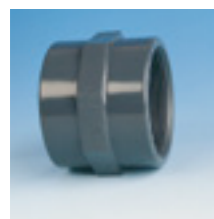


Fig. A

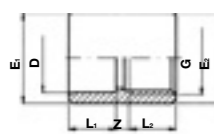


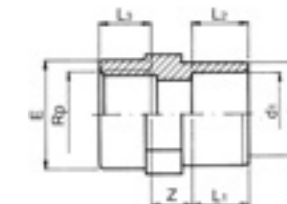
Fig. B

D x G	Code	L ₁	L ₂	Z ₁	E ₁	E ₂	Fig	Gr.
16 x 3/8"	RV0.MAP.16A	14	11.4	6	23	23	A	9
20 x 1/2"	RV0.MAP.20B	16	15.0	6	28	28	A	17
25 x 3/4"	RV0.MAP.25C	19	16.3	6	34	34	A	24
32 x 1"	RV0.MAP.32D	22	19.1	6	42	42	A	42
40 x 1 1/4"	RV0.MAP.40E	26	21.4	4	51	51	A	60
50 x 1 1/2"	RV0.MAP.50F	31	21.4	7	61	58	A	87
63 x 2"	RV0.MAP.63G	38	25.7	7	75	72	A	134
75 x 2 1/2"	RV0.MAP.75H	44	30.2	8	89	89	A	215
90 x 3"	RV0.MAP.90I	51	33.3	9	106	103	A	340
110 x 4"	RV0.MAP.91L	61	39.3	10	129	130	A	550
125 x 5"	RV0.MAP.92N	69	43.6	51	160	-	B	1060

Adaptor Socket Rp 3 diameters

D x G	Code	L ₁	L ₂	L ₂	Z	E
20-25 x 3/8"	RV0.MFP.25B	16	19	15.0	12	28
25-32 x 1/2"	RV0.MFP.32C	19	22	16.3	13	34
32-40 x 3/4"	RV0.MFP.40D	22	26	19.1	14	42
40-50 x 1"	RV0.MFP.50E	26	31	21.4	16	51
50-63 x 1 1/4"	RV0.MFP.63F	31	38	21.4	18	58
63-75 x 1 1/2"	RV0.MFP.75G	38	44	25.7	18	72
75-90 x 2"	RV0.MFP.90H	44	51	30.2	21	89
90-110 x 2 1/2"	RV0.MFP.91I	51	61	33.3	25	100

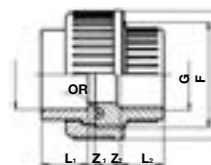
RV0.MFP



Union with O ring plain/threaded

D x G	Code	L ₁	L ₂	Z ₁	Z ₂	F	E	O Ring	Gr.
16 x 3/8"	RV0.BOP.16A	14	11.4	3	13.6	3/4"	34	3062	31
20 x 1/2"	RV0.BOP.20B	16	15.0	3	11.0	1"	42	4081	42
25 x 3/4"	RV0.BOP.25C	19	16.3	3	12.7	1 1/4"	52	4112	70
32 x 1"	RV0.BOP.32D	22	19.1	3	12.9	1 1/2"	59	4131	96
40 x 1 1/4"	RV0.BOP.40E	26	21.4	3	16.6	2"	72	6162	155
50 x 1 1/2"	RV0.BOP.50F	31	21.4	3	23.6	2 1/4"	79	6187	237
63 x 2"	RV0.BOP.63G	38	25.7	3	30.3	2 3/4"	96	6237	405
75 x 2 1/2"	RV0.BOP.75H	44	30.2	3	31.8	3 1/2"	119	6312	625
90 x 3"	RV0.BOP.90I	51	33.3	5	35.7	4"	134	6362	865
110 x 4"	RV0.BOP.91L	61	39.3	5	39.7	5"	163	6450	1340

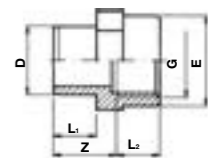
RV0.BOP



Adaptor female thread

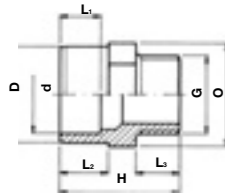
D x G	Code	L ₁	L ₂	E	Z	Gr.
16 x 3/8"	RV0.AFP.16A	14	11.4	23	22	16
20 x 1/2"	RV0.AFP.20B	16	15.0	28	24	19
20 x 3/4"	RV0.AFP.20C	16	16.3	34	24	24
25 x 1/2"	RV0.AFP.25B	19	15.0	28	27	20
25 x 3/4"	RV0.AFP.25C	19	16.3	34	27	26
25 x 1"	RV0.AFP.25D	19	19.1	42	27	39
32 x 3/4"	RV0.AFP.32C	22	16.3	34	30	32
32 x 1"	RV0.AFP.32D	22	19.1	42	30	42
40 x 1"	RV0.AFP.40D	26	19.1	42	36	50
40 x 1 1/4"	RV0.AFP.40E	26	21.4	51	36	65
50 x 1 1/4"	RV0.AFP.50E	31	21.4	51	41	70
50 x 1 1/2"	RV0.AFP.50F	31	21.4	58	41	73
50 x 2"	RV0.AFP.50G	31	25.7	72	41	80
63 x 2"	RV0.AFP.63G	38	25.7	72	48	135
75 x 2"	RV0.AFP.75G	44	25.7	72	53	175
75 x 2 1/2"	RV0.AFP.75H	44	30.2	89	58	225
75 x 3"	RV0.AFP.75I	44	33.3	103	58	295
90 x 2 1/2"	RV0.AFP.90H	51	30.2	89	65	275
90 x 3"	RV0.AFP.90I	51	33.3	103	65	310
90 x 4"	RV0.AFP.90L	51	39.3	130	65	450
110 x 3"	RV0.AFP.91I	61	33.3	103	76	440
110 x 4"	RV0.AFP.91L	61	39.3	130	76	480

RV0.AFP



RV0.AMP

Adaptor male thread



d - Socket (F)
D - Spigot (M)
G - Male Thread

d x D x G	Code	L ₁	L ₂	L ₃	H	O	Gr.
12 x 16 x 3/8"	RV0.AMP.12A	-	14	11.4	36	22	9
16 x 20 x 3/8"	RV0.AMP.16A	14	16	11.4	40	24	10
16 x 20 x 1/2"	RV0.AMP.16B	14	16	15.0	43	24	11
20 x 25 x 3/8"	RV0.AMP.20A	16	19	11.4	43	30	14
20 x 25 x 1/2"	RV0.AMP.20B	16	19	15.0	46	30	14
20 x 25 x 3/4"	RV0.AMP.20C	16	19	16.3	47	30	18
25 x 32 x 1/2"	RV0.AMP.25B	19	22	15.0	49	36	24
25 x 32 x 3/4"	RV0.AMP.25C	19	22	16.3	50	36	26
25 x 32 x 1"	RV0.AMP.25D	19	22	19.1	53	36	29
32 x 40 x 3/4"	RV0.AMP.32C	22	26	16.3	54	46	36
32 x 40 x 1"	RV0.AMP.32D	22	26	19.1	57	46	40
32 x 40 x 1 1/4"	RV0.AMP.32E	22	26	21.4	60	46	45
40 x 50 x 1"	RV0.AMP.40D	26	31	19.1	64	55	68
40 x 50 x 1 1/4"	RV0.AMP.40E	26	31	21.4	67	55	73
40 x 50 x 1 1/2"	RV0.AMP.40F	26	31	21.4	67	55	76
50 x 63 x 1 1/4"	RV0.AMP.50E	31	38	21.4	74	65	110
50 x 63 x 1 1/2"	RV0.AMP.50F	31	38	21.4	74	65	113
50 x 63 x 2"	RV0.AMP.50G	31	38	25.7	78	65	120
63 x 75 x 1 1/2"	RV0.AMP.63F	38	44	21.4	80	80	160
63 x 75 x 2"	RV0.AMP.63G	38	44	25.7	84	80	150
63 x 75 x 2 1/2"	RV0.AMP.63H	38	44	30.2	91	80	170
75 x 90 x 2"	RV0.AMP.75G	44	51	25.7	94	95	268
75 x 90 x 2 1/2"	RV0.AMP.75H	44	51	30.2	99	95	268
75 x 90 x 3"	RV0.AMP.75I	44	51	33.3	102	95	280
90 x 110 x 2 1/2"	RV0.AMP.90H	51	61	30.2	110	115	460
90 x 110 x 3"	RV0.AMP.90I	51	61	33.3	113	115	476
90 x 110 x 4"	RV0.AMP.90L	51	61	39.3	118	115	485
110 x 125 x 3"	RV0.AMP.91I	61	66	33.3	115	130	446
110 x 125 x 4"	RV0.AMP.91L	61	66	39.3	120	130	446
110 x 125 x 5"	RV0.AMP.91N	61	66	40.0	120	130	535
125 x 140 x 5"	RV0.AMP.92N	69	71	74.0	145	145.7	500

RV0.ADP

Threaded Adaptor R 2 diameters



D x G	Code	L ₁	L ₂	E	L	O
75 x 2 1/2"	RV0.ADP.75H	44	30.2	89	42	90
90 x 3"	RV0.ADP.90I	51	33.3	106	46	110
110 x 4"	RV0.ADP.91L	61	39.3	129	51	130

RV0.BMF

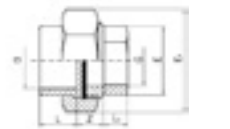
Union plain female/brass threaded female



D x G	Code	E	E ₁	L	L ₁	Z	Gr.
16 x 3/8"	RV0.BMF.16A	20	30	14	11	10	86
20 x 1/2"	RV0.BMF.20B	25	38	16	15	11	144
25 x 3/4"	RV0.BMF.25C	32	47	19	15	14	216
32 x 1"	RV0.BMF.32D	38	55	22	16	12	282
40 x 1 1/4"	RV0.BMF.40E	48	65	26	19	13	375
50 x 1 1/2"	RV0.BMF.50F	54	72	31	21	13	478
63 x 2"	RV0.BMF.63G	66	88	38	25	14	810

Union plain female/brass threaded female

RV0.BMM



D x G	Code	L	L ₁	Z	E ₁	E ₂	Gr.
16 x 3/8"	RV0.BMM.16A	14	11	35	20	30	106
20 x 1/2"	RV0.BMM.20B	16	12	41	25	38	169
25 x 3/4"	RV0.BMM.25C	19	15	45	32	47	236
32 x 1"	RV0.BMM.32D	22	19	47	38	55	327
40 x 1 1/4"	RV0.BMM.40E	26	21	55	48	65	450
50 x 1 1/2"	RV0.BMM.50F	31	21	57	54	72	568
63 x 2"	RV0.BMM.63G	38	25	68	66	88	970

Tee Rp threaded central offtake

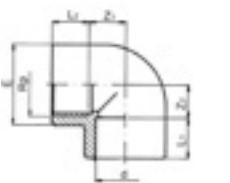
RV0.TTP



D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E ₁	E ₂	Gr.
16 x 3/8"	RV0.TTP.16A	14	11.4	9	11.6	23.0	25.0	18
20 x 1/2"	RV0.TTP.20B	16	15.0	11	12.0	28.0	30.0	30
25 x 3/4"	RV0.TTP.25C	19	13.3	14	16.7	34.0	35.0	48
32 x 1"	RV0.TTP.32D	22	19.1	17	19.9	42.0	45.0	76
40 x 1 1/4"	RV0.TTP.40E	26	21.4	21	25.6	51.0	55.0	124
50 x 1 1/2"	RV0.TTP.50F	31	21.4	26	35.6	61.0	65.0	200
63 x 2"	RV0.TTP.63G	38	25.7	33	45.3	75.0	75.0	365

90° Elbow Rp plain/threaded

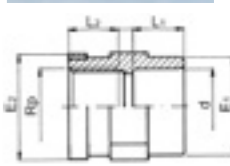
RV0.GGP



D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E ₁	E ₂	Gr.
16 x 3/8"	RV0.GGP.16A	14	11.4	9	11.6	23.0	25.0	14
20 x 1/2"	RV0.GGP.20B	16	15.0	11	12.0	28.0	30.0	21
25 x 3/4"	RV0.GGP.25C	19	16.3	14	16.7	34.0	35.0	38
32 x 1"	RV0.GGP.32D	22	19.1	17	19.9	42.0	45.0	62
40 x 1 1/4"	RV0.GGP.40E	26	21.4	21	25.6	51.0	55.0	95
50 x 1 1/2"	RV0.GGP.50F	31	21.4	26	35.6	61.0	65.0	160
63 x 2"	RV0.GGP.63G	38	25.7	33	45.3	75.0	75.0	290

Socket Rp plain/threaded

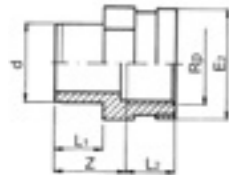
RV0.MMP



D x G	Code	L	L ₁	Z	E ₁	E ₂	Gr.
16 x 3/8"	RV0.MMP.16A	14	11.4	6	23.0	25.0	10
20 x 1/2"	RV0.MMP.20B	16	15.0	4	28.0	30.0	20
25 x 3/4"	RV0.MMP.25C	19	16.3	6	34.0	35.0	26
32 x 1"	RV0.MMP.32D	22	19.1	6	42.0	45.0	44
40 x 1 1/4"	RV0.MMP.40E	26	21.4	8	51.0	55.0	70
50 x 1 1/2"	RV0.MMP.50F	31	21.4	13	61.0	65.0	92
63 x 2"	RV0.MMP.63G	38	25.7	15	75.0	75.0	140

RV0.AAP

Threaded Adaptor Rp plain threaded



D x G	Code	L ₁	L ₂	Z	E ₂	Gr.
16 x 3/8"	RV0.AAP.16A	14	11.4	22	25.0	20
20 x 1/2"	RV0.AAP.20B	14	15.0	22	30.0	20
20 x 3/4"	RV0.AAP.20C	16	15.0	24	30.0	25
25 x 1"	RV0.AAP.25B	16	16.3	24	35.0	22
25 x 1 1/4"	RV0.AAP.25C	19	15.0	27	30.0	28
25 x 1 1/2"	RV0.AAP.25D	19	16.3	27	35.0	41
32 x 2"	RV0.AAP.32C	19	19.1	27	45.0	34
32 x 3/8"	RV0.AAP.32D	22	16.3	30	35.0	47
40 x 1/2"	RV0.AAP.40D	22	19.1	30	45.0	53
40 x 3/4"	RV0.AAP.40E	26	19.1	36	45.0	68
50 x 1"	RV0.AAP.50E	26	21.4	36	55.0	74
50 x 1 1/4"	RV0.AAP.50F	31	21.4	41	55.0	107
50 x 1 1/2"	RV0.AAP.50G	31	21.4	41	60.0	135
63 x 2"	RV0.AAP.63G	31	25.7	41	75.0	150
75 x 2"	RV0.AAP.75G	38	25.7	48	75.0	140

PVC-U - Valves

PVC-U Safeblock water ball valves

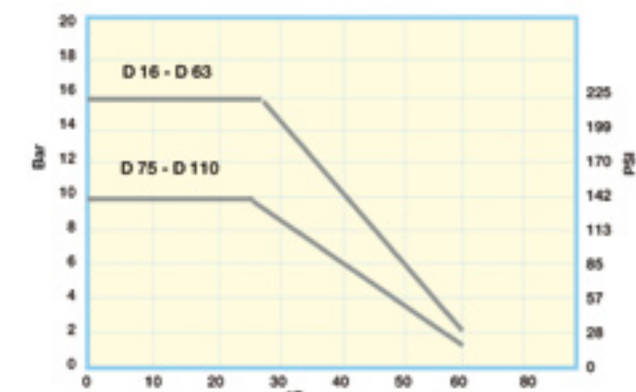
General characteristics

Single and Double Union Ball Valve - compact type - characterized by optimal handling, full flow, axial pipe load block with microadjustment of ball seat. Moreover in closed position the pipeline can be disconnected downstream from the valve.

Features outlined make TP valves particularly suited for the following applications: distribution, treatment and sewage water, swimming pools, water parks and aquaculture.

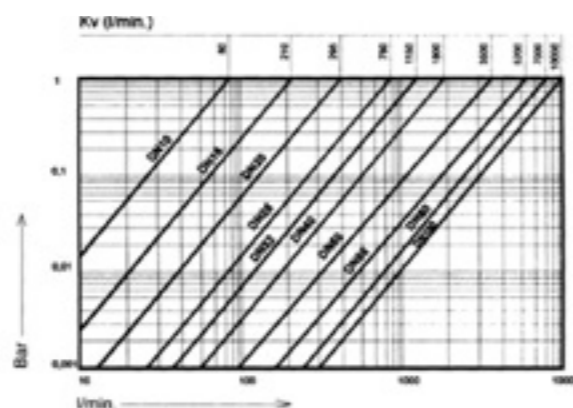
MAX WORKING PRESSURE

The technical information below should be used as a guide. Please consult our Technical department for specific queries.



Pressure temperature rating for water and harmless liquid.

CHARGE LOSS



With water at 20°C and the valve in open position

TORQUE

D	G	Nm
16-20	3/8"-1/2"	0,7
25	3/4"	2
32	1"	3,5
40	1" 1/4	7
50	1" 1/2	9
63	2"	13
75	2" 1/2	24
90	3"	30
110	4"	48

Max torque at max working pressure.

Installation and use

When glueing the end connector of the pipe, care must be taken to prevent the glue or solvent from coming in contact with the valve seats or ball.

Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided. A special attention should be paid to the correct line-up of the installation. Tighten the union nut handtight only. The use of wrench is not allowed. It is important that the unions are not used to pull the system together.

If there is any leakage from the union nuts, please check

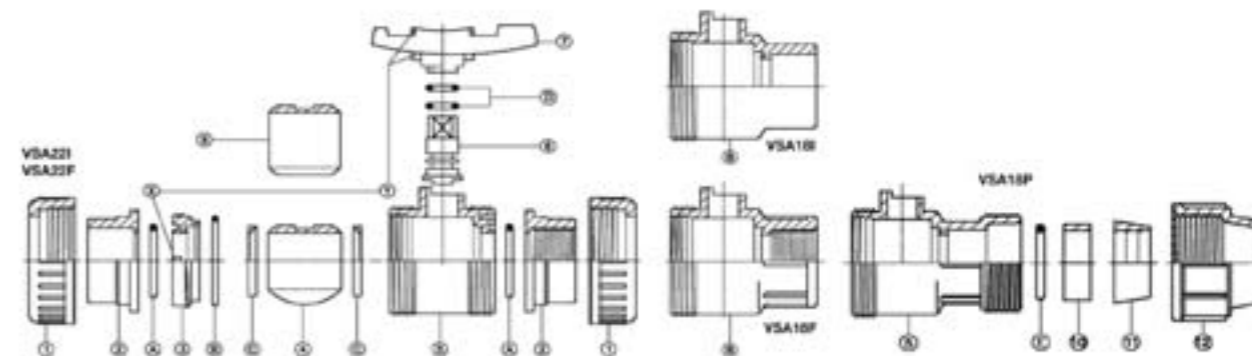
the correct line-up of the system and the pipe length. An excessive tightening of the unions could finally break them.

Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats.

It is important to avoid rapid closures/opening of the valve to eliminate the possibility of water hammer causing damage to the pipeline.

It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thread joining procedure.

PVC-U Safeblock water ball valves



VALVE COMPONENTS

Pos	Components	n°			Material
		VSA22	VSA18	VSA18P	
1	Union nut	2	1	1	PVC
2	End connector	2	1	1	PVC
3	Adjustable support	1	1	1	PVC
4	Ball DN 40 a 100	1	-	1	PVC
5	Body	1	-	1	PVC
6	Stem	1	1	1	PVC
7	Handle	1	1	1	PVC
8	Single union body	-	1	-	PVC
9	Ball DN 10 a 32	1	-	-	PVC
9	Ball	-	1	-	PVC
10	Packing presser bush	-	-	1	PVC
11	Clip ring	-	-	1	POM
12	Quick joint nut	-	-	1	PVC
A	O-ring body	2	1	1	EPDM
B	O-ring support	1	1	1	EPDM
C	Ball seat	-	-	-	-
D	O-ring stem	2	2	2	EPDM
E	Quick joint O-ring	-	-	1	EPDM

PVC: Polyvinyl chloride
 EPDM: Ethylene-propylene
 PTFE+PE: Polytetrafluoroethylene+polyethylene
 POM: Polyacetale

DISASSEMBLING AND REASSEMBLING IN CASE OF MAINTENANCE DOUBLE UNION VSA.22. ...

Screwing the union nut [1] it is possible to take out radially from the system the whole body of the valve.

To reach the internal parts of the valve act as follows:

- 1- Set the valve on open position.
 - 2- Withdraw the handle [7] from control stem [6].
 - 3- Screw the support [3] of the body [5] using the two teeth [Y] of the handle [7] screwing operation should be done counter-clockwise.
 - 4- After having screwed the support [3] and taken out the O-ring B which was inside [5], it is possible to reach all the internal parts of the valve to check the O-rings and in case substitute them.
- to disassemble the ball [4]-[9] turn it using the control stem [6] setting it in closing position to withdraw the ballonet coupling through the control stem [6];
 - to disassemble the control stem [6] of the body [5] push it downwards as far as its complete outcome.

re act in the opposite way being careful to set the O-ring properly and greased it with silicon grease. Screw headed support 3 straight to the hand taking care not to block the ball [4]-[9].

VSK.22L

Ball Valve
double union/plain socket EPDM seals



L	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSK.22L.160	50	51	36	12	42	14	48	76	16	130
1/2"	VSK.22L.200	50	51	36	12	42	16	48	80	16	130
3/4"	VSK.22L.250	59	58	39	15	48	19	53	91	16	210
1"	VSK.22L.320	68	65	45	16	54	22	58	102	16	305
1 1/4"	VSK.22L.400	80	76	51	18	62	26	68	120	16	465
1 1/2"	VSK.22L.500	94	88	57	21	72	31	78	140	16	690
2"	VSK.22L.630	115	103	66	23	86	38	93	169	16	1160
2 1/2"	VSK.22L.750	145	124	78	24	110	44	118	206	10	2090
3"	VSK.22L.900	168	137	84	26	128	51	140	242	10	3200
4"	VSK.22L.910	210	162	105	28	150	61	160	282	10	5500

VSK.22I

Ball Valve
double union/plain socket EPDM seals



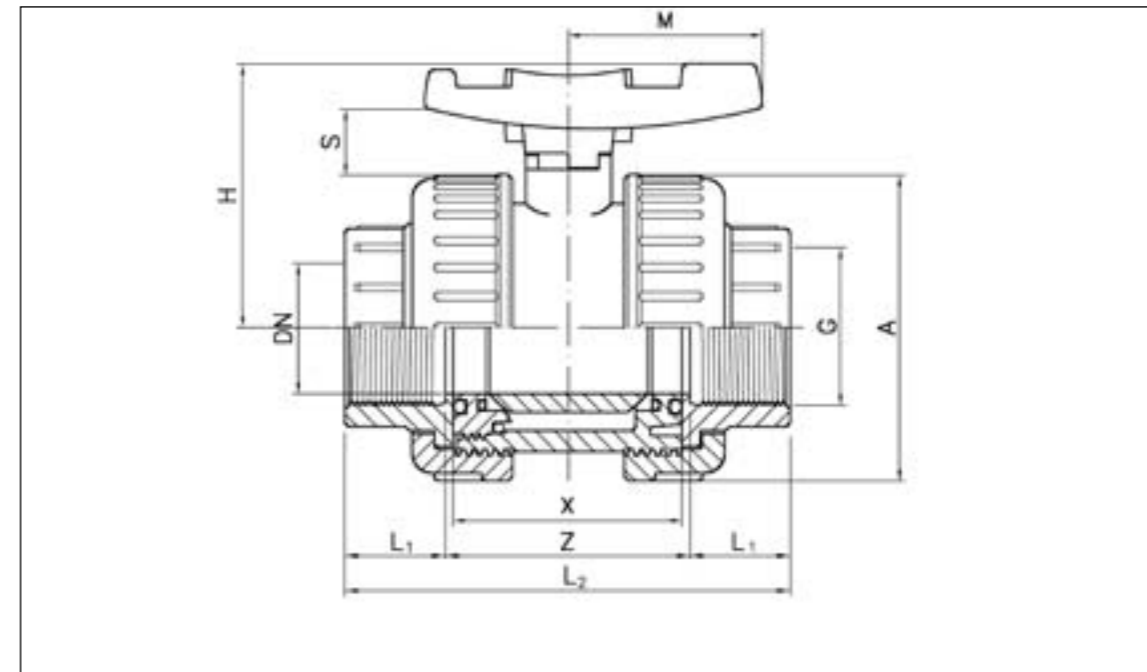
D	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
16	VSK.22I.160	50	51	36	12	42	14	48	76	16	130
20	VSK.22I.200	50	51	36	12	42	16	48	80	16	130
25	VSK.22I.250	59	58	39	15	48	19	53	91	16	210
32	VSK.22I.320	68	65	45	16	54	22	58	102	16	305
40	VSK.22I.400	80	76	51	18	62	26	68	120	16	465
50	VSK.22I.500	94	88	57	21	72	31	78	140	16	690
63	VSK.22I.630	115	103	66	23	86	38	93	169	16	1160
75	VSK.22I.750	145	124	78	24	110	44	118	206	10	2090
90	VSK.22I.900	168	137	84	26	128	51	140	242	10	3200
110	VSK.22I.910	210	162	105	28	150	61	160	282	10	5500

Ball Valve double union BSP threaded socket
EPDM seals

VSK.22F



G	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSK.22F.160	50	51	36	12	42	14	48	76	16	130
1/2"	VSK.22F.200	50	51	36	12	42	16	48	80	16	130
3/4"	VSK.22F.250	59	58	39	15	48	19	53	91	16	210
1"	VSK.22F.320	68	65	45	16	54	22	58	102	16	305
1 1/4"	VSK.22F.400	80	76	51	18	62	26	68	120	16	465
1 1/2"	VSK.22F.500	94	88	57	21	72	31	78	140	16	690
2"	VSK.22F.630	115	103	66	23	86	38	93	169	16	1160
2 1/2"	VSK.22F.750	145	124	78	24	110	44	118	206	10	2090
3"	VSK.22F.900	168	137	84	26	128	51	140	242	10	3200
4"	VSK.22F.910	210	162	105	28	150	61	160	282	10	5500



VSA.22L

Ball Valve
double union/plain socket EPDM seals



L	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSA.22L.160	50	51	36	12	42	14	48	76	16	130
1/2"	VSA.22L.200	50	51	36	12	42	16	48	80	16	130
3/4"	VSA.22L.250	59	58	39	15	48	19	53	91	16	205
1"	VSA.22L.320	68	65	45	16	54	22	58	102	16	300
1 1/4"	VSA.22L.400	80	76	51	18	62	26	68	120	16	435
1 1/2"	VSA.22L.500	94	88	57	21	72	31	78	140	16	670
2"	VSA.22L.630	115	103	66	23	86	38	93	169	16	1125
2 1/2"	VSA.22L.750	145	124	78	24	110	44	118	206	10	2090
3"	VSA.22L.900	168	137	84	26	128	51	140	242	10	3310
4"	VSA.22L.910	210	162	96	28	150	61	160	282	10	5925

VSA.22I

Ball Valve
double union/plain socket EPDM seals



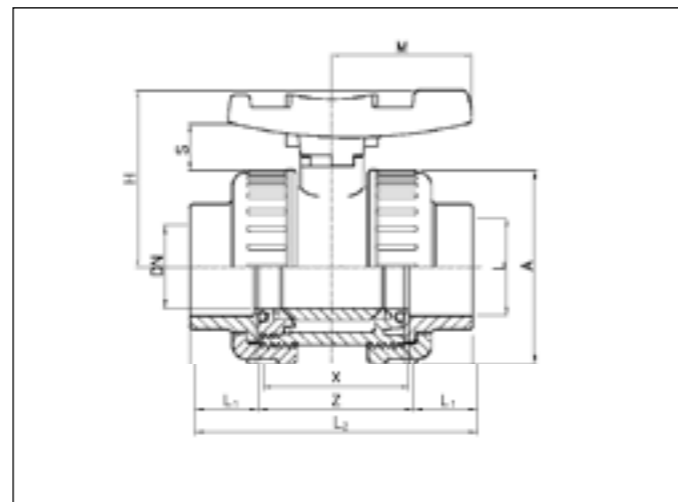
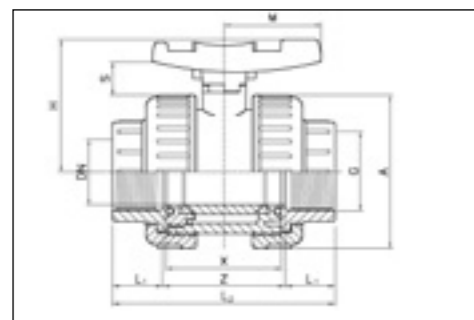
L	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
16	VSA.22I.160	50	51	36	12	42	14	48	76	16	130
20	VSA.22I.200	50	51	36	12	42	16	48	80	16	130
25	VSA.22I.250	59	58	39	15	48	19	53	91	16	205
32	VSA.22I.320	68	65	45	16	54	22	58	102	16	300
40	VSA.22I.400	80	76	51	18	62	26	68	120	16	435
50	VSA.22I.500	94	88	57	21	72	31	78	140	16	670
63	VSA.22I.630	115	103	66	23	86	38	93	169	16	1125
75	VSA.22I.750	145	124	78	24	110	44	118	206	10	2090
90	VSA.22I.900	168	137	84	26	128	51	140	242	10	3310
110	VSA.22I.910	210	162	96	28	150	61	160	282	10	5925

VSA.22F

Ball Valve
double union BSP threaded socket EPDM seals



G	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSA.22F.160	50	51	36	12	42	14	48	76	16	130
1/2"	VSA.22F.200	50	51	36	12	42	16	48	80	16	130
3/4"	VSA.22F.250	59	58	39	15	48	19	53	91	16	205
1"	VSA.22F.320	68	65	45	16	54	22	58	102	16	300
1 1/4"	VSA.22F.400	80	76	51	18	62	26	68	120	16	435
1 1/2"	VSA.22F.500	94	88	57	21	72	31	78	140	16	670
2"	VSA.22F.630	115	103	66	23	86	38	93	169	16	1125
2 1/2"	VSA.22F.750	145	124	78	24	110	44	118	206	10	2090
3"	VSA.22F.900	168	137	84	26	128	51	140	242	10	3310
4"	VSA.22F.910	210	162	96	28	150	61	160	282	10	5925



Ball Valve single union/plain socket EPDM seals

VSA.18L



L	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSA.18L.160	50	51	36	12	42	14	45	73	16	100
1/2"	VSA.18L.200	50	51	36	12	42	16	45	77	16	100
3/4"	VSA.18L.250	59	58	39	15	48	19	50	88	16	160
1"	VSA.18L.320	68	65	45	16	54	22	54	98	16	230
1 1/4"	VSA.18L.400	80	76	51	18	62	26	64	116	16	340
1 1/2"	VSA.18L.500	94	88	57	21	72	31	74	136	16	525
2"	VSA.18L.630	115	103	66	23	86	38	89	165	16	890
2 1/2"	VSA.18L.750	145	124	78	24	110	44	107	195	10	1620
3"	VSA.18L.900	168	137	84	26	128	51	130	232	10	2450
4"	VSA.18L.910	210	162	96	28	150	61	152	274	10	4100

Ball Valve single union/plain socket EPDM seals

VSA.18I



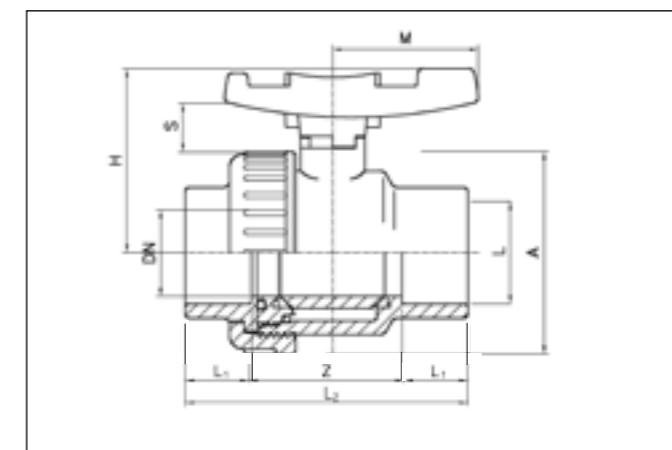
D	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
16	VSA.18I.160	50	51	36	12	42	14	45	73	16	100
20	VSA.18I.200	50	51	36	12	42	16	45	77	16	100
25	VSA.18I.250	59	58	39	15	48	19	50	88	16	160
32	VSA.18I.320	68	65	45	16	54	22	54	98	16	230
40	VSA.18I.400	80	76	51	18	62	26	64	116	16	340
50	VSA.18I.500	94	88	57	21	72	31	74	136	16	525
63	VSA.18I.630	115	103	66	23	86	38	89	165	16	890
75	VSA.18I.750	145	124	78	24	110	44	107	195	10	1620
90	VSA.18I.900	168	137	84	26	128	51	130	232	10	2450
110	VSA.18I.910	210	162	96	28	150	61	152	274	10	4100

Ball Valve single union/BSP threaded socket EPDM seals

VSA.18F



G	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VSA.18F.160	50	51	36	12	42	14	45	73	16	100
1/2"	VSA.18F.200	50	51	36	12	42	16	45	77	16	100
3/4"	VSA.18F.250	59	58	39	15	48	19	50	88	16	160
1"	VSA.18F.320	68	65	45	16	54	22	54	98	16	230
1 1/4"	VSA.18F.400	80	76	51	18	62	26	64	116	16	340
1 1/2"	VSA.18F.500	94	88	57	21	72	31	74	136	16	525
2"	VSA.18F.630	115	103	66	23	86	38	89	165	16	890
2 1/2"	VSA.18F.750	145	124	78	24	110	44	107	195	10	1620
3"	VSA.18F.900	168	137	84	26	128	51	130	232	10	2450
4"	VSA.18F.910	210	162	96	28	150	61	152	274	10	4100



PVC-U One flow direction valves

General characteristics

Compact double type ball valve: all types are realized with the same dimensions of our ball valves VSA and can be disassembled from the network simply by unscrewing the two unions nuts.

VRO allows the passage of the liquid in one direction only. VRO type orientated as a foot valve allows the passage of the liquid acting as a foot valve. As an air release valve

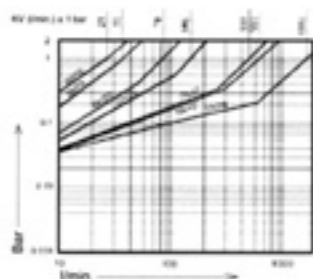
acts releasing the air until the liquid reaches the floating wedge closing the valve and maintaining therefore the liquid under pressure.

Materials chemical resistances according to ISO/TR 10358.

Please consult the supplier about applications and details.

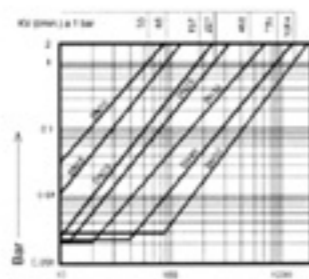
VRO CHARGE LOSS

The technical information below should be used as a guide. Please consult our Technical department for specific queries.

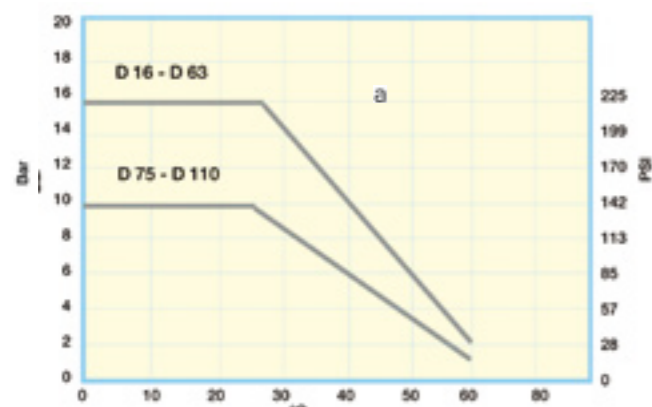


With water at 20°C [valve with spring]

VRV-VRF CHARGE LOSS



With water at 20°C [valve without spring]



Pressure temperature rating for water and harmless liquid.

PRESSURE

D	G	VRO mm H.O	VRV/VRF mm H.O	Weight g
16	3/8"	150	23	4
20	1/2"	150	23	4
25	3/4"	70	25	8
32	1"	32	22	11
40	1 1/4"	40	21	17
50	1 1/2"	38	24	30
63	2"	44	29	56

Min. opening pressure of spring and own weight [water column].

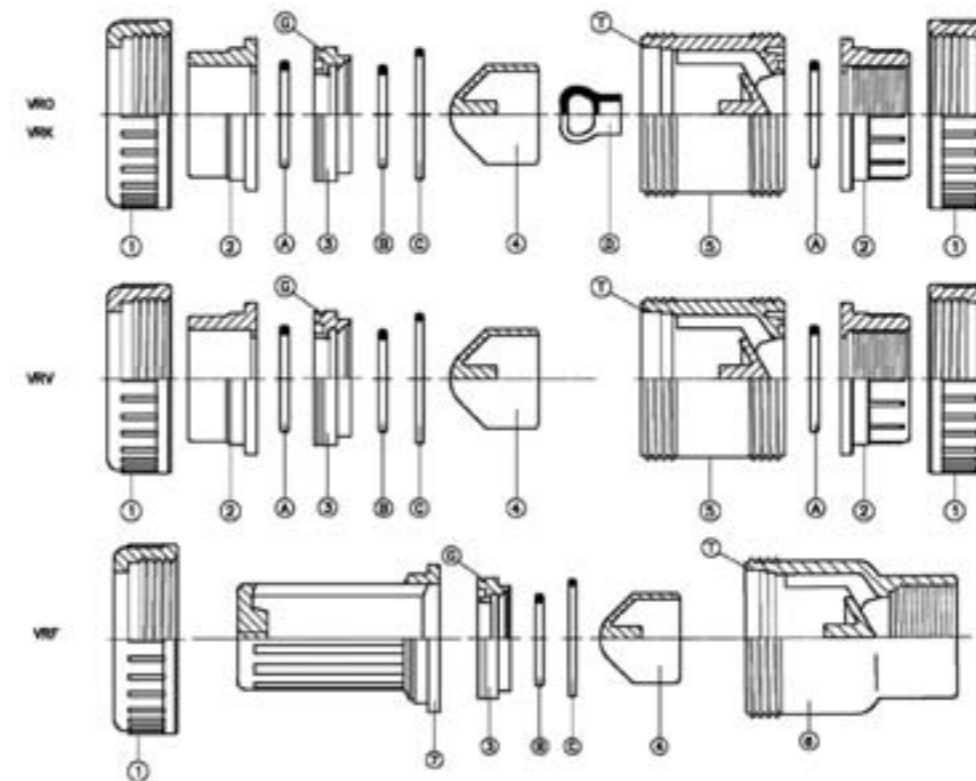
unions are not used to pull the system together. If there is any leakage from the union nuts, please check the correct line-up of the system and the pipe length. An excessive tightening of the unions could finally break them. Before the valve is cycled, all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thread joining procedure.

Installation and use

Be careful during the glueing of the end connector of the pipes; the glue or solvent must absolutely not run into the wedge or O' ring of the valve. Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided. A special attention should be paid to the correct line-up of the installation and to the pipe length. Tighten the union nut handtight only.

The use of wrench is not allowed. It is important that the

PVC-U One flow direction valves



PRESSURE

Pos	Components	VRO	n° VRV	VRF	Material
1	Union nut	2	2	1	PVC
2	End connector	2	2	-	PVC
3	Support	1	1	1	PVC
4	Wedge	1	1	1	PVC
5	Body	1	1	-	PVC
6	Threaded body	-	-	1	PVC
7	Screen	-	-	1	PP
A	O-ring body	2	2	1	EPDM
B	O-ring wedge	1	2	1	EPDM
C	O-ring support	1	1	1	EPDM
D	Spring wedge	1	-	-	EPDM

PVC: Polyvinyl chloride

EPDM: Ethylene-propylene [DUTRAL®]

Disassembling and reassembling in case of maintenance

Unscrewing the union nut (1) it is possible to take out radially from the system the whole central group of the valve.

To reach the internal parts of the valve act as follows:

- 1 Take out the support (3) from the body (5) levering with a screwdriver between the two gates T of the body and the groove G of the support.

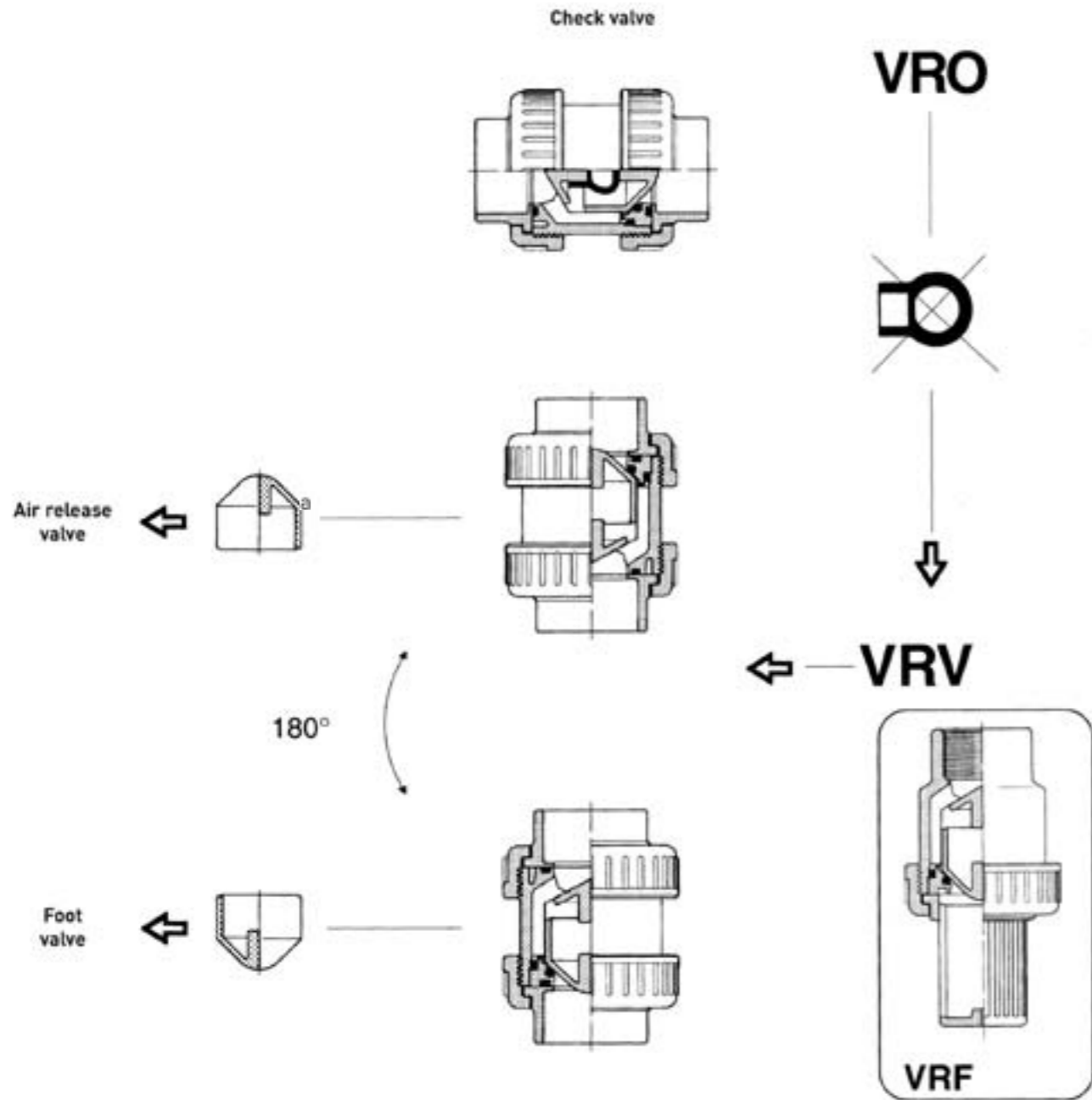
- 2 After disassembling the support (3) and taking out the O-ring C that has stayed inside the body (5), it is possible to reach all the parts of the valve and check the O-rings and in case substitute them.

To assemble the valve act in the opposite way being careful to set the O-ring properly and greased it with silicon grease.

PVC-U One flow direction valves

New

The VRO type has an internal rubber spring. Taking out the internal spring and orientating the valve in the right way, it is become either a foot valve or an air release. The valve VR range has the same dimensions as the ball valves VSA, allowing this way a unique way of fixing to the wall thanks to the same type of clamping (cf. STF).



Check Valve

double union/plain socket EPDM seals

G	Code	A	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VRO.21L.160	50	42	14	48	76	16	110
1/2"	VRO.21L.200	50	42	16	48	80	16	110
3/4"	VRO.21L.250	59	48	19	53	91	16	175
1"	VRO.21L.320	68	54	22	58	102	16	245
1 1/4"	VRO.21L.400	80	62	26	68	120	16	375
1 1/2"	VRO.21L.500	94	72	31	78	140	16	580
2"	VRO.21L.630	115	86	38	93	169	16	1000
2 1/2"	VRO.21L.750	145	110	44	118	206	10	2900
3"	VRO.21L.900	168	128	51	140	242	10	3000

VRO.21L



EPDM spring

Check Valve

double union/plain socket EPDM seals

D	Code	A	X	L ₁	Z	L ₂	PN	Gr.
16	VRO.21I.160	50	42	14	48	76	16	110
20	VRO.21I.200	50	42	16	48	80	16	110
25	VRO.21I.250	59	48	19	53	91	16	175
32	VRO.21I.320	68	54	22	58	102	16	245
40	VRO.21I.400	80	62	26	68	120	16	375
50	VRO.21I.500	94	72	31	78	140	16	580
63	VRO.21I.630	115	86	38	93	169	16	1000
75	VRO.21I.750	145	110	44	118	206	10	2900
90	VRO.21I.900	168	128	51	140	242	10	3000

VRO.21I



EPDM spring

Check Valve

double union/BSP threaded EPDM seals

G	Code	A	X	L ₁	Z	L ₂	PN	Gr.
3/8"	VRO.21F.160	50	42	14	48	76	16	110
1/2"	VRO.21F.200	50	42	16	48	80	16	110
3/4"	VRO.21F.250	59	48	19	53	91	16	175
1"	VRO.21F.320	68	54	22	58	102	16	245
1 1/4"	VRO.21F.400	80	62	26	68	120	16	375
1 1/2"	VRO.21F.500	94	72	31	78	140	16	580
2"	VRO.21F.630	115	86	38	93	169	16	1000
2 1/2"	VRO.21F.750	145	110	44	118	206	10	2900
3"	VRO.21F.900	168	128	51	140	242	10	3000

VRO.21F



EPDM spring

VRF.11F

Foot Valve
BSP threaded EPDM seals



G	Code	D	L ₁	L ₂	Gr.
1/2"	VRF.11F.200	23	16	110	75
3/4"	VRF.11F.250	30	19	130	120
1"	VRF.11F.320	38	22	145	175
1 1/4"	VRF.11F.400	48	24	160	260
1 1/2"	VRF.11F.500	57	24	180	400
2"	VRF.11F.630	71	28	205	700
3"	VRF.11F.900	110	36	260	2000

PP Screen

VRF.11I

Foot Valve
plain socket EPDM seals



D	Code	D	L ₁	L ₂	Gr.
20	VRF.11I.200	23	16	110	75
25	VRF.11I.250	30	19	130	120
32	VRF.11I.320	38	22	145	175
40	VRF.11I.400	48	24	160	260
50	VRF.11I.500	57	24	180	400
63	VRF.11I.630	71	28	205	700
90	VRF.11I.900	110	36	260	2000

PP Screen

PVC-U Butterfly Valves

General description

The new VFA Butterfly Valves are designed to guarantee reliability, safety, top level performance and simple operation. The rational, compact shape and the construction concept simplify assembly and routine maintenance operations. The new VFA valves are ideally suited for water and neutral fluids.

Technical features

Available versions

- Lever-operated
- Handwheel-operated
- Pre-assembled with flanges
- With pneumatic actuators
- With electric actuators

Dimensions

- All versions from DN65 to DN200

Body material

- PVC-U

Gasket material

- EPDM disk gasket - Orings
- SANTOPRENE™ flange gaskets

Stem material

- Zinc plated steel
- Stainless steel (optional)

Applications

The new VFA Butterfly Valves have been designed to be used mainly in contact with water and neutral fluids in different applications such as public and private swimming pools, water parks, thermal pools, Spa's, irrigation and aquaculture.

Pressure

- From DN65 to DN150: PN 10
- DN200: PN 6

Temperature

- 0 °C + 60 °C

Flange Connecting Standards

- ISO - DIN - BS - ANSI

Conformity

- Ministerial Decree 174

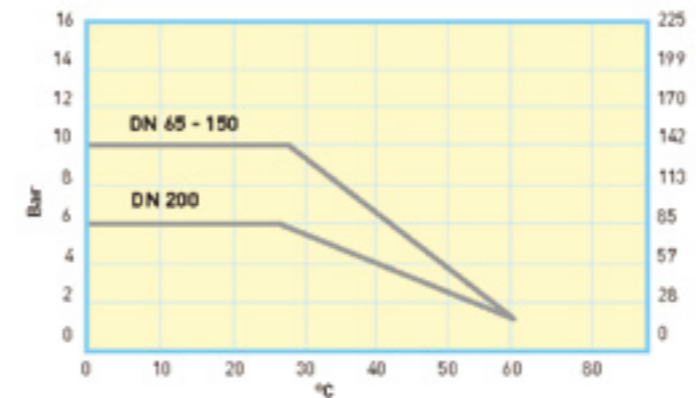
Actuators

- 24/230 V electric actuators
- Single/double-acting pneumatic actuators

Valve standards

- Conform to ISO 16136 - Pr EN 1452 - ISO 9393

Operating Pressure versus temperature

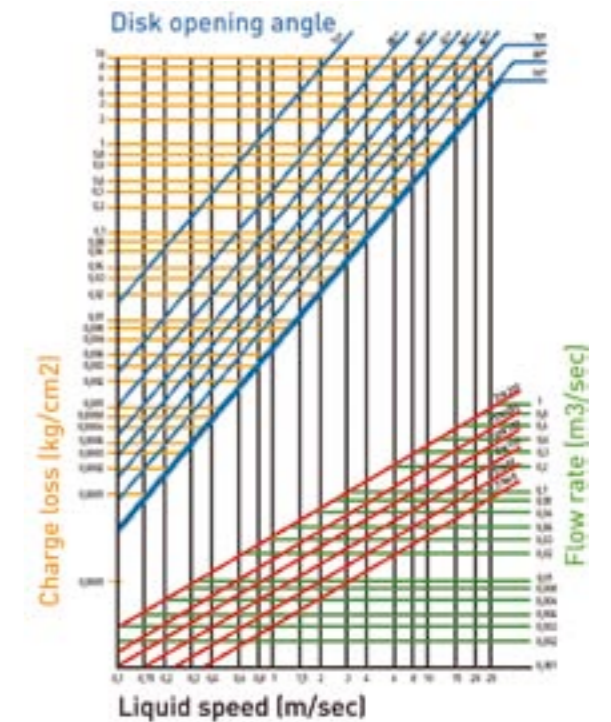


Functional Features

VALVE SIZE	OPERATING TORQUE	TIGHTENING TORQUE
DN	Inch	New Valve at operating PN (with PVC-U /Metal Flanges)
65 - 2 1/2"	11 Nm *	15 Nm
80 - 3"	14 Nm *	20 Nm
100 - 4"	16 Nm *	23 Nm
125 - 5"	26 Nm *	30 Nm
150 - 6"	35 Nm *	30 Nm
200 - 8"	50 Nm *	50 Nm

* Reference value: These values can change, depending on the specific application and also over time

Charge Loss



PVC-U Butterfly Valves - Assembly instructions



1. Insert the bolts, washers and nuts without tightening in the lower part between the flanges. Take the valve out of its package, carefully checking its integrity and that it is perfectly clean.



2. Insert the valve in the "CLOSED" position between the flanges until the slots in the lower part of the body rest directly on the bolts, taking care to maintain parallelism with the flanges.



3. Insert the remaining bolts, washers and nuts in the upper part between the flanges. Tighten the nuts/bolts in across pattern until the tightening torque indicated is reached. [TAB. A] We recommend that you use a torque wrench.



4-5. Check that:

- the flanges adhere perfectly to the valve body
- correct parallelism is maintained between the valve and the flanges
- an axial position is maintained relative to the pipe.



6. Use the safety stop if necessary

Operate the valve with no load, checking that movements are smooth and there are no abnormal stresses.

BUTTERFLY VALVE DISASSEMBLY INSTRUCTIONS

Before proceeding, make sure that:

- All valves upstream and downstream of the one to be worked on are closed.
- The system has been depressurised.
- The pipe has been completely emptied.

Carry out the assembly operations described in reverse order.

We recommend to clean the internal components of the valve as well as to open and close the valve itself regularly. By complete disassembling of the valve, please pay attention to put the gaskets in the correct positioning

TAB. A

VALVE DN	TIGHTENING TORQUE*
65 - 2" 1/2	15 Nm
80 - 3"	20 Nm
100 - 4"	23 Nm
125 - 5"	30 Nm
150 - 6"	30 Nm
200 - 8"	50 Nm

*WITH PVCU/METAL FLANGES

Butterfly Valve handle operated EPDM seals

D	Code	DN	DN Inch	PN
75	VFA.02D.750	65	2 1/2	10
90	VFA.02D.900	80	3	10
110	VFA.02D.910	100	4	10
125/140	VFA.02D.920	125	5	10
160	VFA.02D.940	150	6	10
200/225	VFA.02D.960	200	8	6

VFA.02D



Butterfly Valve handwheel operated EPDM seals

D	Code	DN	DN Inch	PN
75	VFA.11D.750	65	2 1/2	10
90	VFA.11D.900	80	3	10
110	VFA.11D.910	100	4	10
125/140	VFA.11D.920	125	5	10
160	VFA.11D.940	150	6	10
200/225	VFA.11D.960	200	8	6

VFA.11D



Maximum working pressure: 3" - 6" / 90-160mm : 10 bar at 20°C
8" / 225mm : 6 bar at 20°C

Butterfly Valve ready-fitted lever and flanges kit

D	Code	DN	PN
75	VFA.02D.75K	65	10
90	VFA.02D.90K	80	10
110	VFA.02D.91K	100	10
125	VFA.02D.92K	125	10
140	VFA.02D.93K	125	10
160	VFA.02D.94K	150	10
200	VFA.02D.96K	200	6
225	VFA.02D.97K	200	6

VFA.02D



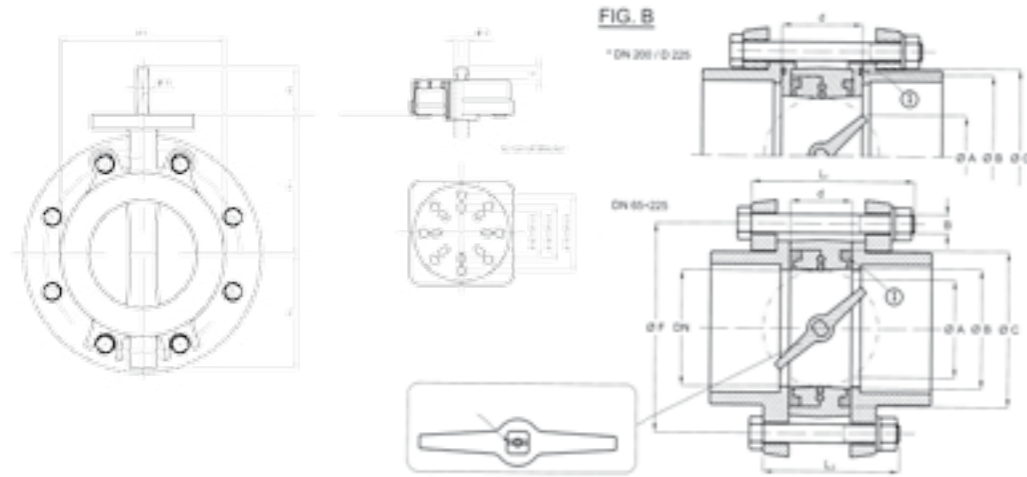
EPDM Gasket

Butterfly Valve Kit stub flange, PVC backing rings and galvanised steel bolts kit

D	Code
75	XVF.FLI.Z75
90	XVF.FLI.Z90
110	XVF.FLI.Z91
125	XVF.FLI.Z92
140	XVF.FLI.Z93
160	XVF.FLI.Z94
200	XVF.FLI.Z96
225	XVF.FLI.Z97

XVF.FLI





DN	G	D	aA	aB	aC	d	L ₁	L ₂	B	eL	Q	H ₁	H ₂	C ₀ [Nm]
130	1/2"	75	49	73	98	45	140	120	16	112	11	115	76	8
150	3/4"	90	64	83	112	48	140	120	16	128	11	120	86	12
170	1"	110	85	103	134	55	140	120	16	152	11	130	106	18
200	1 1/2"	125/140	108	129	158	63	170	140	16	177	14	150	116	25
225	2"	160	134	154	190	69	180	150	20	212	14	170	132	32
		200	180	198	232	72	200	170		282				
280	2 1/2"	225	164	229	248	100	230	190	20	274	22	200	163	60
		200												

ABS - Inch

General properties of ABS Fittings - BS range

Acrylonitrile Butadiene Styrene

ABS is a homogenous material with a high impact resistance and elasticity given by the butadiene component. A major advantage of the material is the working temperature range -40 to +60°C at pressures up to 15bar.

Pressure ratings for thermoplastic pipe and fittings are always quoted for water at 20°C and it is a fundamental principle in thermoplastic pipework that if the temperature increases then the working pressure must be reduced.

ABS is generally resistant to most diluted inorganic acids, bases and salts and to most animal oils and fats. It is not resistant to organic solvents, alcohol, petrol, acetic acid, refrigerants and vegetable oils (please check individual chemical resistance for the particular fluids involved) Chemical resistances are in compliance with ISO/TR 10358.

NB: ABS is not particularly resistance to UV light. When exposed to the sun, ABS material can show some colour fading and have less impact strength.

STANDARDS:

ABS fittings are usually produced in accordance with BS 5391-2 dimensions. However, we can also produce them in accordance with ISO 727 and BS EN ISO 15493 standards, only upon request and for specific quantities.

SANITARY REGULATIONS:

Our ABS fittings are produced with non toxic material and are suitable for conveying potable water and foodstuffs in accordance with the prescriptions of National Authorities in Italy (C.M.102 d.t.d. 02.12.78) and in other countries.

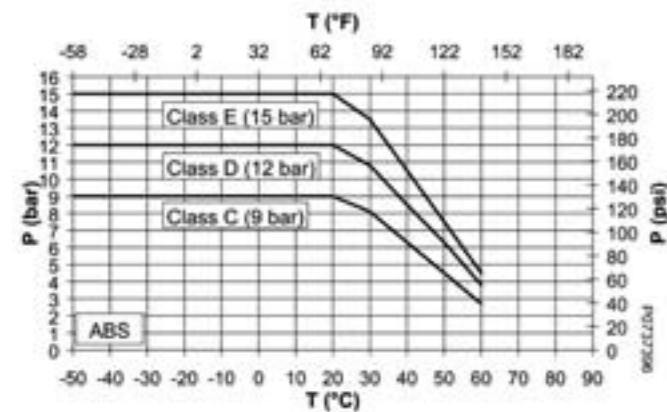
GASKETS:

Gaskets supplied for unions and flanges are in EPDM (ethylene-polypropylene rubber). Other materials are available upon request.

ABS PHYSICAL PROPERTY

CHARACTERISTICS	STANDARD			UNIT	VALUE	
	ISO	DIN	ASTM			
DENSITY	R1183	53479	D792	g/cm ³	1,06	
VICAT	A/50	R306	D1525	°C	105	
TENSILE STRENGTH AT YIELD	R527	53455	D638	MPa	42	
TENSILE STRENGTH AT BREAK	R527	53455	D638	MPa	35	
ELONGATION AT YIELD	R527	53455	D638	%	2,5	
ELONGATION AT BREAK	R527	53455	D638	%	30	
FLEXURAL MODULUS	R178		D790	Mpa	2000	
HARDNESS ROCKWELL Table L	2039		D785	Scala L	86	
NOTCHED IZOD IMPACT	3,2 mm	+23°	R180	D256	J/m	280
IZOD (intaglio)	3,2 mm	0°	R180	D256	J/m	200
IZOD (intaglio)	3,2 mm	-23°	R180	D256	J/m	130
FIRE TEST	3,2 mm			UL 94		HB
FIRE TEST	1,6 mm			UL 94		HB

Inch-based systems

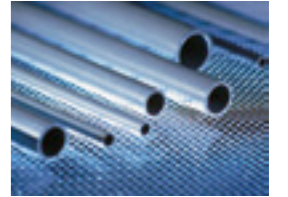


P Permissible pressure in bar, psi
T Temperature in °C, °F

ABS Pipe Class C

D	Code	L (m)
1"	RB0.CLC.320	6
1 1/4"	RB0.CLC.400	6
1 1/2"	RB0.CLC.500	6
2"	RB0.CLC.630	6
2 1/2"	RB0.CLC.750	6
3"	RB0.CLC.900	6
4"	RB0.CLC.910	6
5"	RB0.CLC.930	6
6"	RB0.CLC.940	6
8"	RB0CLC.970	6

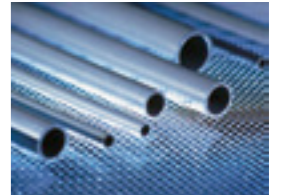
RB0.CLC



ABS Pipe Class E

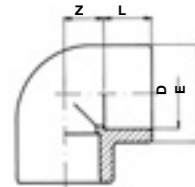
D	Code	L (m)
1/2"	RB0.CLE.200	6
3/4"	RB0.CLE.250	6
1"	RB0.CLE.320	6
1 1/4"	RB0.CLE.400	6
1 1/2"	RB0.CLE.500	6
2"	RB0.CLE.630	6
3"	RB0.CLE.900	6
4"	RB0.CLE.910	6

RB0.CLE



RB0.GOL

90° Elbow

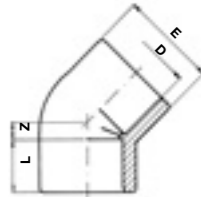
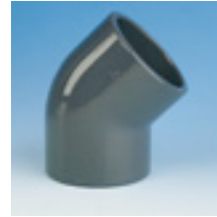


D	Code	L	Z	E	Gr.
1/2"	RB0.GOL.200	17	11	27	13
3/4"	RB0.GOL.250	20	14	33	20
1"	RB0.GOL.320	23	17	41	35
1 1/4"	RB0.GOL.400	27	22	51	56
1 1/2"	RB0.GOL.500	32	26	61	117
2"	RB0.GOL.630	37	34	75	222
2 1/2"	RB0.GOL.750	44	39	90	301
3"	RB0.GOL.900	52	45	107	509
4"	RB0.GOL.910	63	58	133	948
5"	RB0.GOL.930	76	72	163	2030
6"	RB0.GOL.940	93	85	198	2961
*8"	RB0.GOL.970	116	116	258	6567

* maximum working pressure: 9 bar at 20°C

RB0.GYL

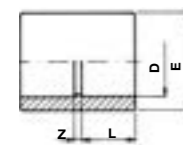
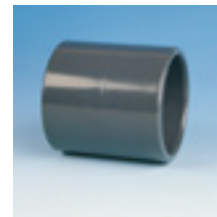
45° Elbow



D	Code	L	Z	E	Gr.
1/2"	RB0.GYL.200	16	5	27	12
3/4"	RB0.GYL.250	19	6	33	18
1"	RB0.GYL.320	22	8	41	31
1 1/4"	RB0.GYL.400	27	10	52	47
1 1/2"	RB0.GYL.500	32	12	61	97
2"	RB0.GYL.630	39	15	75	176
2 1/2"	RB0.GYL.750	44	18	90	231
3"	RB0.GYL.900	52	21	107	390
4"	RB0.GYL.910	63	25	133	649
5"	RB0.GYL.930	76	31	163	1525
6"	RB0.GYL.940	90	36	198	2965

RB0.MAL

Socket



D	Code	L	Z	E	Gr.
1/2"	RB0.MAL.200	16	3	27	11
3/4"	RB0.MAL.250	19	3	33	16
1"	RB0.MAL.320	22	3	41	25
1 1/4"	RB0.MAL.400	27	3	52	39
1 1/2"	RB0.MAL.500	32	3	61	74
2"	RB0.MAL.630	37	3	75	132
2 1/2"	RB0.MAL.750	44	4	90	164
3"	RB0.MAL.900	52	5	107	283
4"	RB0.MAL.910	67	6	133	526
5"	RB0.MAL.930	76	8	164	833
6"	RB0.MAL.940	90	8	198	1294
*8"	RB0.MAL.970	120	10	253	3391

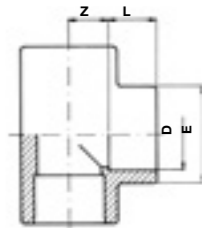
* maximum working pressure: 9 bar at 20°C

90° Tee

D	Code	L	Z	E	Gr.
3/8"	RB0.TIL.160	14	9	23	12
1/2"	RB0.TIL.200	16	11	27	17
3/4"	RB0.TIL.250	19	14	33	27
1"	RB0.TIL.320	22	17	41	50
1 1/4"	RB0.TIL.400	27	21	52	79
1 1/2"	RB0.TIL.500	32	26	61	116
2"	RB0.TIL.630	37	33	75	284
2 1/2"	RB0.TIL.750	44	39	90	394
3"	RB0.TIL.900	52	45	107	657
4"	RB0.TIL.910	63	62	133	1131
5"	RB0.TIL.930	76	72	163	2730
6"	RB0.TIL.940	93	86	198	3755
*8"	RB0.TIL.970	116	116	258	5453

* maximum working pressure: 9 bar at 20°C

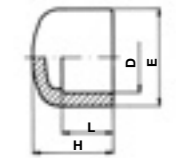
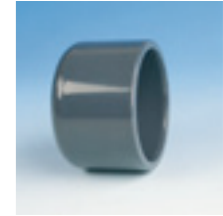
RB0.TIL



Cap

D	Code	L	H	E	Gr.
3/8"	RB0.CAL.160	14.5	22	23	7
1/2"	RB0.CAL.200	16	37	27	9
3/4"	RB0.CAL.250	19	31	33	12
1"	RB0.CAL.320	22	35	41	21
1 1/4"	RB0.CAL.400	27	42	52	30
1 1/2"	RB0.CAL.500	32	47	61	59
2"	RB0.CAL.630	39	48	75	104
2 1/2"	RB0.CAL.750	44	59	90	137
3"	RB0.CAL.900	52	81	107	235
4"	RB0.CAL.910	63	99	133	397

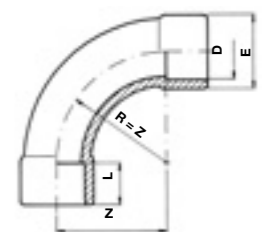
RB0.CAL



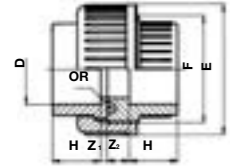
90° Bend short radius

D	Code	L	Z	E	Gr.
1/2"	RB0.CUL.200	16	40	30	32
3/4"	RB0.CUL.250	19	50	36	55
1"	RB0.CUL.320	22	64	44	90
1 1/4"	RB0.CUL.400	27	80	54	156
1 1/2"	RB0.CUL.500	32	100	63	256
2"	RB0.CUL.630	39	126	78	445
2 1/2"	RB0.CUL.750	44	150	94	777
3"	RB0.CUL.900	51	180	113	1361
4"	RB0.CUL.910	61	220	136	2079

RB0.CUL



RB0.BOL

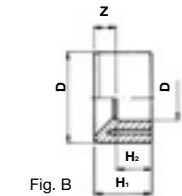
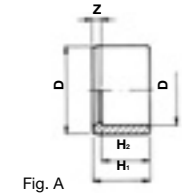
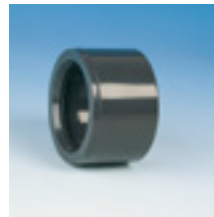


Union with O ring

D	Code	H	Z ₁	Z ₂	F	E	Gr.
1/2"	RB0.BOL.200	16	3	10	1"	42	31
3/4"	RB0.BOL.250	19	3	10	1 1/4"	52	49
1"	RB0.BOL.320	22	3	10	1 1/2"	59	67
1 1/4"	RB0.BOL.400	27	3	12	2"	73	115
1 1/2"	RB0.BOL.500	32	3	14	2 1/4"	82	164
2"	RB0.BOL.630	39	3	18	2 3/4"	100	288
*2 1/2"	RB0.BOL.750	44	3	18	3 1/2"	119	434
*3"	RB0.BOL.900	52	5	18	4"	134	599
*4"	RB0.BOL.910	63	5	18	5"	163	876

* maximum working pressure: 9 bar at 20°C

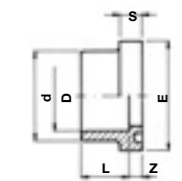
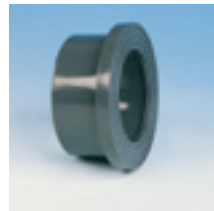
RB0.RCL



Reducing Bush

D X D	Code	H ₁	H ₂	Z	Fig	Gr.
3/4" x 1/2"	RB0.RCL.25B	19	16	3	A	6
1" x 1/2"	RB0.RCL.32B	22	16	6	B	
1" x 3/4"	RB0.RCL.32C	22	19	3	A	10
1 1/4" x 1"	RB0.RCL.40D	27	23	4	A	20
1 1/2" x 1"	RB0.RCL.50D	32	23	9	B	42
1 1/2" x 1 1/4"	RB0.RCL.50E	32	27	5	A	22
1 1/2" x 3/4"	RB0.RCL.50C	39	23	16	B	69
2" x 1"	RB0.RCL.63D	39	32	7	A	54
2" x 1 1/4"	RB0.RCL.63E	44	39	5	A	95
2" x 1 1/2"	RB0.RCL.63F	52	44	8	A	96
2 1/2" x 1 1/2"	RB0.RCL.75F	63	39	24	B	336
2 1/2" x 2"	RB0.RCL.75G	63	52	11	A	258
3" x 1 1/2"	RB0.RCL.90F	50.5	30.0	20.5	B	211
3" x 2"	RB0.RCL.90G	50.5	36.0	14.5	B	182
3" x 2 1/2"	RB0.RCL.90H	50.5	44.0	6.5	A	127
4" x 2"	RB0.RCL.91G	63.0	36.0	27.0	B	424
4" x 3"	RB0.RCL.91I	63.0	50.5	12.5	A	327
5" x 4"	RB0.RCL.93L	77.0	65.0	12.0	A	563
6" x 4"	RB0.RCL.94L	90.0	63.0	27.0	B	-
8" x 6"	RB0.RCL.97O	115.5	90.0	25.5	B	-

RB0.QRL



Stub Flange serrated face

D	Code	L	Z	d	S	E	Gr.
1/2"	RB0.QRL.200	16.5	2.5	27	6	34	10
3/4"	RB0.QRL.250	19.5	2.5	33	7	41	16
1"	RB0.QRL.320	22	3	41	7	50	18
1 1/4"	RB0.QRL.400	27	2.5	50	8	61	40
1 1/2"	RB0.QRL.500	32	3	61	8	73	50
2"	RB0.QRL.630	39	3	76	9	90	91
2 1/2"	RB0.QRL.750	44	3	90	10	106	118
3"	RB0.QRL.900	52	5	108	11	125	209
4"	RB0.QRL.910	63	5	131	12	150	330
5"	RB0.QRL.930	76	5	165	14	188	563
6"	RB0.QRL.940	88	6	188	16	213	816
*8"	RB0.QRL.970	119	7	248	19	274	1580

* maximum working pressure: 9 bar at 20°C

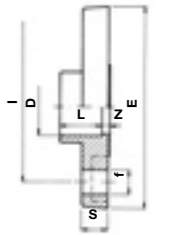
Backing rings & gaskets available - see accessories section

Fixed Flange

drilled to BS 4504 NP10/16

D	Code	L	Z	E	I	f	Holes	Gr.
1/2"	RB0.FFL.200	16	4	95	65	14	4	70
3/4"	RB0.FFL.250	19	4	105	75	14	4	105
1"	RB0.FFL.320	22	4	115	85	14	4	145
1 1/4"	RB0.FFL.400	27	4	140	100	18	4	220
1 1/2"	RB0.FFL.500	32	4	150	110	18	4	270
2"	RB0.FFL.630	38	4	165	125	18	4	380
2 1/2"	RB0.FFL.750	44	4	185	145	18	4	465
3"	RB0.FFL.900	51	7	200	160	18	8	524
4"	RB0.FFL.910	61	5	220	180	18	8	666

RB0.FFL

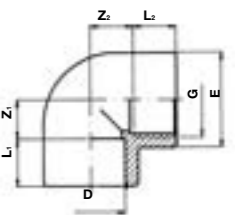


90° Elbow plain/BSP threaded

Reinforcing ring stainless A2 1/2" - 1" only

D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E	Gr.
1/2"	RB0.GOR.20B	16	15.0	11	12.0	28	16
3/4"	RB0.GOR.25C	19	16.3	14	16.7	34	28
1"	RB0.GOR.32D	22	19.1	17	19.9	42	49
1 1/4"	RB0.GOR.40E	26	21.4	21	25.6	51	76 Not reinforced
1 1/2"	RB0.GOR.50F	31	21.4	26	35.6	61	163 Not reinforced

RB0.GOR



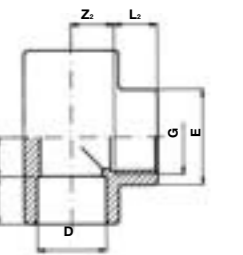
* Sizes above 1" have been discontinued so available while stocks last

90° Tee threaded centre off-take

- discontinued - available while stocks last

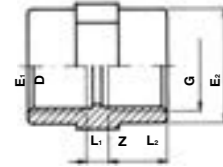
D x G	Code	L ₁	L ₂	Z ₁	Z ₂	E	Gr.
2"	RB0.TIR.63G	39	25.7	33	46.3	75	380

RB0.TIR



RB0.MAR

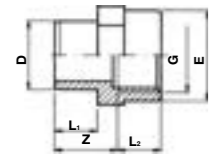
Socket plain/bsp threaded
Now with stainless steel A2 reinforcing ring



D x G	Code	L ₁	L ₂	Z	E	Gr.
3/8" x 3/8"	RB0.MAR.16A	16	15	4	26	
1/2" x 1/2"	RB0.MAR.20B	16	15.0	4	28	15
3/4" x 3/4"	RB0.MAR.25C	19	16.3	6	34	22
1" x 1"	RB0.MAR.32D	22	19.1	6	42	37
1 1/4" x 1 1/4"	RB0.MAR.40E	27	21.4	8	51	60
1 1/2" x 1 1/2"	RB0.MAR.50F	32	21.4	13	61	104
2" x 2"	RB0.MAR.63G	39	25.7	15	75	161

RB0.AFR

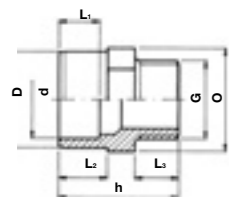
Adaptor female thread/plain male spigot



D x G	Code	L ₁	L ₂	E	Z	Gr.
1/2" x 1/2"	RB0.AFR.20B	16	15	28	24	19
3/4" x 3/4"	RB0.AFR.25C	19	16	34	27	27
1" x 1"	RB0.AFR.32D	22	19	42	30	43
1 1/4" x 1 1/4"	RB0.AFR.40E	27	21	51	36	68
1 1/2" x 1 1/2"	RB0.AFR.50F	32	21	58	41	73
2" x 2"	RB0.AFR.63G	39	25	72	48	115

RB0.AMR

Adaptor
double adaptor BSP male thread



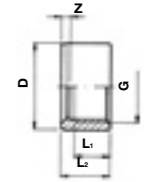
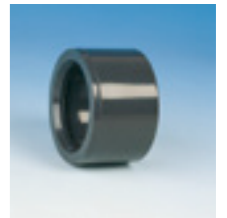
d - Socket (F)
D - Spigot (M)
G - Male Thread

d x D x G	Code	H ₁	H ₂	H ₃	h	O	Gr.
3/8" x 1/2" x 3/8"	RB0.AMR.16A	14.5	16	11.4	40	24	10
3/8" x 1/2" x 1/2"	RB0.AMR.16B	14.5	16	15.0	43	24	11
1/2" x 3/4" x 1/2"	RB0.AMR.20B	16.5	19	15.0	46	30	14
1/2" x 3/4" x 3/4"	RB0.AMR.20C	16.5	19	16.3	47	30	18
3/4" x 1" x 3/4"	RB0.AMR.25C	19.5	22	16.3	50	36	26
3/4" x 1" x 1"	RB0.AMR.25D	19.5	22	19.1	53	36	29
1" x 1 1/4" x 1"	RB0.AMR.32D	22.5	26	19.1	57	46	40
1" x 1 1/4" x 1 1/4"	RB0.AMR.32E	22.5	26	21.4	60	46	45
1 1/4" x 1 1/2" x 1 1/4"	RB0.AMR.40E	27.0	31	21.4	67	55	73
1 1/4" x 1 1/2" x 1 1/2"	RB0.AMR.40F	27.0	31	21.4	67	55	76
1 1/2" x 2" x 1 1/2"	RB0.AMR.50F	30.0	38	21.4	74	65	113
1 1/2" x 2" x 2"	RB0.AMR.50G	30.0	38	25.7	78	65	120
2" x 2 1/2" x 2"	RB0.AMR.63G	36.0	44	25.7	84	80	150
2" x 2 1/2" x 2 1/2"	RB0.AMR.63H	36.0	44	30.2	91	80	170
2 1/2" x 3" x 2 1/2"	RB0.AMR.75H	44.0	51	30.2	99	98	268
2 1/2" x 3" x 3"	RB0.AMR.75I	44.0	51	33.3	102	95	280
3" x 4" x 3"	RB0.AMR.90I	50.5	61	33.3	113	115	476
3" x 4" x 4"	RB0.AMR.90L	50.5	61	29.3	118	115	485

Reducing bush plain/threaded

D x G	Code	L ₁	L ₂	Z ₁	Gr.
1/2" x 3/8"	RB0.RCR.20A	16.5	11.4	5.1	4
3/4" x 1/2"	RB0.RCR.25B	19.5	15.0	4.5	7
1" x 3/4"	RB0.RCR.32C	22.5	16.3	6.2	12

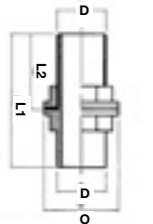
RB0.RCR



Tank Connector plain/threaded

D	Code	L ₁	L ₂	O	Gr.
1/2"	RB0.TAC.200	77	42	28	41
3/4"	RB0.TAC.250	77	42	33	52
1"	RB0.TAC.320	103	55	46	108
1 1/4"	RB0.TAC.400	121	70	50	153
1 1/2"	RB0.TAC.500	128	73	60	216
2"	RB0.TAC.630	154	82	80	370

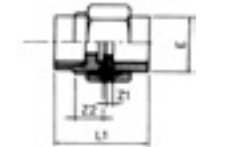
RB0.TAC



Union plain female/brass threaded female

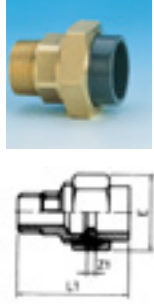
Size	Code	E	L ₁	Z ₁	Z ₂	Gr.
1/2"	RB0.BFC.20B	43	43	3	9	165
3/4"	RB0.BFC.25C	48	52	3	10	290
1"	RB0.BFC.32D	55	53	9	11	310
1 1/4"	RB0.BFC.40E	65	61	10	11	450
1 1/2"	RB0.BFC.50F	78	76	12	12	490
2"	RB0.BFC.63G	88	90	11	14	950

RB0.BFC



RB0.BMC

Union plain male/brass threaded male



Size	Code	E	L ₁	Z ₁	Gr.
1/2"	RB0.BMC.20B	43	54	3	175
3/4"	RB0.BMC.25C	48	74	3	238
1"	RB0.BMC.32D	55	86	9	324
1 1/4"	RB0.BMC.40E	65	94	10	469
1 1/2"	RB0.BMC.50F	78	109	12	595
2"	RB0.BMC.63G	88	125	14	982

RB0.BPF

Barrel Nipple plain / threaded



G	Code	L	H	Gr.
1/2"	RB0.BPF.200	14	44	11
3/4"	RB0.BPF.250	16	50	13
1"	RB0.BPF.320	19	56	20
1 1/4"	RB0.BPF.400	21	62	30
1 1/2"	RB0.BPF.500	24	75	51
2"	RB0.BPF.630	32	87	83
2 1/2"	RB0.BPF.750	35	106	197
3"	RB0.BPF.900	39	128	300
4"	RB0.BPF.910	43	153	560

RB0.BNF

Barrel Nipple threaded

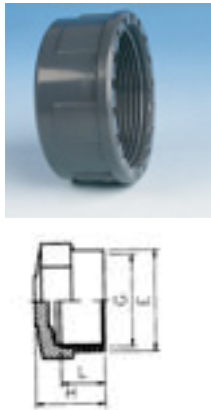


G	Code	L	H	Gr.
1/2"	RB0.BNF.200	14	44	11
3/4"	RB0.BNF.250	16	50	13
1"	RB0.BNF.320	19	56	20
1 1/4"	RB0.BNF.400	21	62	30
1 1/2"	RB0.BNF.500	24	75	51
2"	RB0.BNF.630	32	87	83
2 1/2"	RB0.BNF.750	30	105	169
3"	RB0.BNF.900	37	128	243
4"	RB0.BNF.910	42	156	485

RB0.CAF

Cap threaded

discontinued - available while stocks last



G	Code	L	H	E	Gr.
1/2"	RB0.CAF.200	15.0	26	26	7
3/4"	RB0.CAF.250	16.3	30	32	13
1 1/2"	RB0.CAF.500	21.4	46	61	66
2"	RB0.CAF.630	25.7	55	75	112

Hexagonal Nipple

G	Code	L	H	Gr.
1/2"	RB0.NIF.200	14	44	11
3/4"	RB0.NIF.250	16	50	13
1"	RB0.NIF.320	19	56	20
1 1/4"	RB0.NIF.400	21	62	30
1 1/2"	RB0.NIF.500	24	75	51
2"	RB0.NIF.630	32	87	83

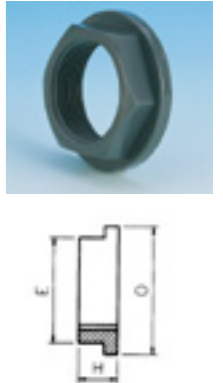
RB0.NIF



BackNut

Size	Code	E	H	O	Gr.
1/2"	RB0.DAF.200	28	13	38	10
3/4"	RB0.DAF.250	33	14	43	12
1"	RB0.DAF.320	46	16	56	25
1 1/4"	RB0.DAF.400	50	18	65	30
1 1/2"	RB0.DAF.500	60	20	72	44
2"	RB0.DAF.630	80	21	93	88
2 1/2"	RB0.DAF.750	95	24	106	110
3"	RB0.DAF.900	110	28	125	171
4"	RB0.DAF.910	140	31	154	287

RB0.DAF

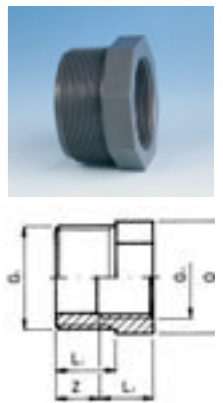


Reducing Bush

discontinued - available while stocks last

D	Code	L ₁	L ₂	Z	O	Gr.
3/4" x 1/2"	RB0.RCF.25B	16.3	13	13.3	30	15.0
1" x 3/4"	RB0.RCF.32C	19.1	20	14.8	36	16.3
1 1/2" x 1 1/4"	RB0.RCF.50E	21.4	37	14.0	55	21.4
2" x 1 1/2"	RB0.RCF.63F	25.7	67	18.3	65	21.4
3" x 2 1/2"	RB0.RCF.90H	33.3	160	20.1	95	30.2
4" x 3"	RB0.RCF.91I	39.3	380	24.0	120	33.3

RB0.RCF

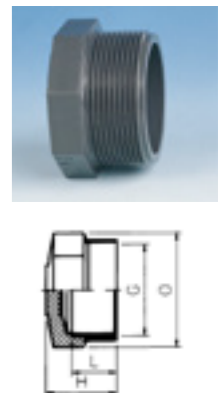


Plug threaded

discontinued - available while stocks last

G	Code	L	H	E	Gr.
3/4"	RB0.TAF.250	17.0	30	32	16
1"	RB0.TAF.320	20.0	36	46	24
1 1/4"	RB0.TAF.400	21.4	41	51	44

RB0.TAF



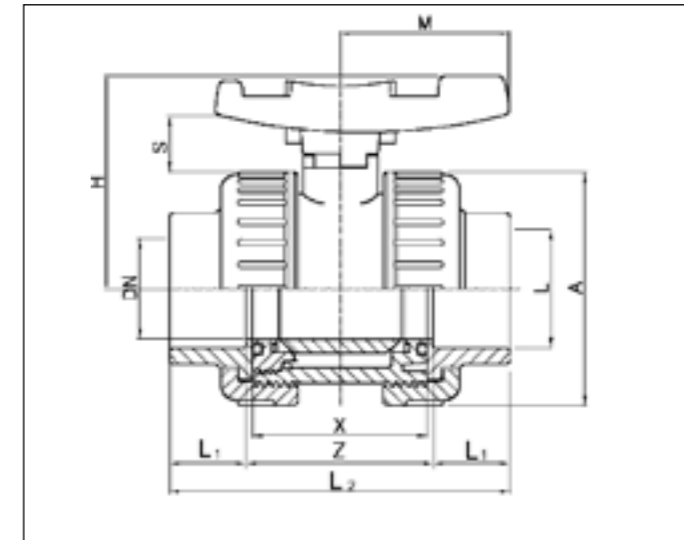
ABS BALL VALVES

Ball Valve double union/plain socket EPDM seals

VSB.22L



L	Code	A	H	M	S	X	L ₁	Z	L ₂	PN	Gr.
1/2"	VSB.22L.200	50	51	36	12	42	16	48	80	16	130
3/4"	VSB.22L.250	59	58	39	15	48	19	53	91	16	210
1"	VSB.22L.320	68	65	45	16	54	22	58	102	16	305
1 1/4"	VSB.22L.400	80	76	51	18	62	26	68	120	16	465
1 1/2"	VSB.22L.500	94	88	57	21	72	31	78	140	16	690
2"	VSB.22L.630	115	103	66	23	86	38	93	169	16	1160
2 1/2"	VSB.22L.750	145	124	78	24	110	44	118	206	10	2090
3"	VSB.22L.900	168	137	84	26	128	51	140	242	10	3200
4"	VSB.22L.910	210	162	105	28	150	61	160	282	10	5500



VRB.21L

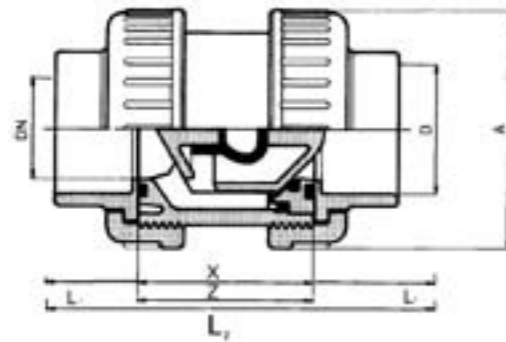


EPDM spring

Check Valve double union/plain socket
EPDM seals

D	Code	A	X	L ₁	Z	L ₂	PN	Gr.
1/2"	VRB.21L.200	50	42	14	48	76	16	82
3/4"	VRB.21L.250	59	48	16	48	80	16	82
1"	VRB.21L.320	68	54	19	53	91	16	131
1 1/4"	VRB.21L.400	80	62	22	58	102	16	185
1 1/2"	VRB.21L.500	94	72	26	68	120	16	276
2"	VRB.21L.630	115	86	31	78	140	16	453
2 1/2"	VRB.21L.750	145	110	38	93	169	10	779
3"	VRB.21L.900	168	128	51	140	242	10	3000

Three position Check/Air Release Valve



Check Valve

Can be installed in the vertical and the horizontal position.

Air Release Valve

By removing the spring and following the directional arrows, the valve can be used as an air release valve.

Accessories

1.ORD

Union O Ring EPDM



D	Code
16	1OR.D03.062
20	1OR.D04.081
25	1OR.D04.112
32	1OR.D04.131
40	1OR.D06.162
50	1OR.D06.187
63	1OR.D06.237
75	1OR.D06.312
90	1OR.D06.362
110	1OR.D06.450

1.ORV

Union O Ring FPM



D	Code
20	1OR.V04.081
25	1OR.V04.112
32	1OR.V04.131
40	1OR.V06.162
50	1OR.V06.187

2GRN

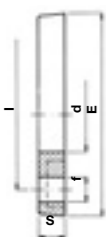
Flat Gasket EPDM for Flange Adaptor



D	Code
16	2GR.NPD.160
20	2GR.NPD.200
25	2GR.NPD.250
32	2GR.NPD.320
40	2GR.NPD.400
50	2GR.NPD.500
63	2GR.NPD.630
75	2GR.NPD.750
90	2GR.NPD.900
110	2GR.NPD.910
125	2GR.NPD.920
140	2GR.NPD.930
160	2GR.NPD.940
200	2GR.NPD.960
225	2GR.NPD.970

RV0.FLI

Loose Flange



D	Code	d	E	S	I	f	Holes	Bolts	Gr.
20	RV0.FLI.200	28	95	11	65	14	4	M12 x 55	55
25	RV0.FLI.250	34	105	12	75	14	4	M12 x 60	85
32	RV0.FLI.320	42	115	14	85	14	4	M12 x 60	120
40	RV0.FLI.400	51	140	15	100	18	4	M16 x 70	175
50	RV0.FLI.500	62	150	16	110	18	4	M16 x 75	210
63	RV0.FLI.630	78	165	18	125	18	4	M16 x 80	300
75	RV0.FLI.750	92	185	19	145	18	4	M16 x 90	355
90	RV0.FLI.900	110	200	20	160	18	8	M16 x 90	430
110	RV0.FLI.910	133	220	22	180	18	8	M16 x 100	520
125	RV0.FLI.920	149	230	24	190	18	8	M16 x 100	585
140	RV0.FLI.930	167	250	26	210	18	8	M20 x 110	700
160	RV0.FLI.940	190	285	28	240	22	8	M16 x 120	960
200	RV0.FLI.960	235	340	30	295	22	8	M20 x 120	1230
225	RV0.FLI.970	250	340	30	295	22	8	M20 x 120	1150

Backing Flange for socket systems - all materials

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to B10:1962, table D & E

d	Code	D	a	k	b	I	AL	Bolts	Gr.
20	TDE.200	96	28	67	7	15	4	M12 x 55	220
25	TDE.250	102	34	73	7	15	4	M12 x 60	320
32	TDE.320	115	42	83	7	15	4	M12 x 60	410
40	TDE.400	121	51	88	8	15	4	M16 x 70	820
50	TDE.500	134	62	99	8	15	4	M16 x 75	1040
63	TDE.630	153	78	115	10	18	4	M16 x 80	1220
75	TDE.750	165	92	127	10	18	4	M16 x 85	1400
90	TDE.900	184	110	146	10	18	4	M16 x 90	1530
110	TDE.910M	216	133	178	10	18	8	M16 x 95	1840
125	TDE.910D	216	138	178	10	18	4	M16 x 95	1840
140	TDE.910E	216	138	178	10	18	8	M20 x 95	1840
160	TDE.930	254	167	210	10	18	8	M16 x 110	2070
200	TDE.940	280	200	235	10	22	8	M20 x 120	2330
225	TDE.970	337	250	292	10	22	8	M20 x 150	2750

TDE

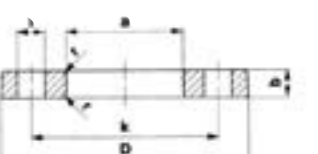


Backing Flanges for socket systems - all materials

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to ISO/BS4504: 1969 PN10/16

d	Code	D	a	k	b	I	AL	Bolts	Gr.
20	BSF.200	95	28	65	7	14	4	M12 x 55	220
25	BSF.250	105	34	75	7	14	4	M12 x 60	320
32	BSF.320	115	42	85	7	14	4	M12 x 60	410
40	BSF.400	140	51	100	8	18	4	M16 x 70	820
50	BSF.500	150	62	110	8	18	4	M16 x 75	1040
63	BSF.630	165	78	125	10	18	4	M16 x 80	1220
75	BSF.750	185	92	145	10	18	4	M16 x 85	1400
90	BSF.900	200	110	160	10	18	4	M16 x 90	1530
110	BSF.910M	220	133	180	10	18	8	M16 x 95	1840
140	BSF.910I	220	133	180	10	18	4	M16 x 95	1840
160	BSF.930	250	167	210	10	18	8	M16 x 110	2070
200	BSF.940	285	200	240	10	22	8	M20 x 120	2330
225	BSF.970A	340	250	295	10	22	8	M20 x 150	1584

BSF



Backing Flanges for socket systems - all materials

Inch & Metric sizes
Material: Galvanised Mild Steel
Bolt circle diameter and bolt holes to BS1560:1958 (ASA 150)

d	Code	D	a	k	b	I	AL	Bolts	Gr.
20	ASA.200	89	28	60	7	16	4	M12 x 55	220
25	ASA.250	98	34	70	7	16	4	M12 x 60	320
32	ASA.320	108	42	79	7	16	4	M12 x 60	410
40	ASA.400	117	51	89	8	16	4	M12 x 70	820
50	ASA.500	127	62	98	8	16	4	M12 x 75	1040
63	ASA.630	152	78	121	10	19	4	M16 x 80	1220
75	ASA.750	178	92	140	10	19	4	M16 x 85	1400
90	ASA.900	190	110	152	10	19	4	M16 x 90	1530
110	ASA.910M	229	133	190	10	19	8	M16 x 95	1840
140	ASA.910I	229	138	190	10	19	8	M16 x 95	1840
160	ASA.930	254	167	216	10	22	8	M20 x 120	2070
200	ASA.940	279	200	241	10	22	8	M20 x 120	2330
225	ASA.970	343	250	298	10	22	8	M20 x 150	2750

ASA



Gasket Set EPDM + PTFE for VSK

D	Code
16	XSK.SED.160
20	XSK.SED.200
25	XSK.SED.250
32	XSK.SED.320
40	XSK.SED.400
50	XSK.SED.500
63	XSK.SED.630
75	XSK.SED.750
90	XSK.SED.900
110	XSK.SED.910

XSK.SED



Gasket set EPDM + PTFE/PE for VSA

D	Code
16	XSA.SED.160
20	XSA.SED.200
25	XSA.SED.250
32	XSA.SED.320
40	XSA.SED.400
50	XSA.SED.500
63	XSA.SED.630
75	XSA.SED.750
90	XSA.SED.900
110	XSA.SED.910

XSA.SED



Rubber Spring for VRO Check Valve

D	Code
20	2.MLL01D.20
25	2.MLL01D.25
32	2.MLL01D.32
40	2.MLL01D.40
50	2.MLL01D.50
63	2.MLL01D.63
75/ 90	2.MLL01D.90

2.MLL



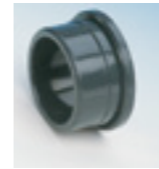
2GO.VFO



Seal EPDM for VFA/VFK Butterfly Valve

D	Code
75	2GO.VFO.D75
90	2GO.VFO.D90
110	2GO.VFO.D91
125	2GO.VFO.D92
160	2GO.VFO.D94
200	2GO.VFO.D96
225	2GO.VFO.D97

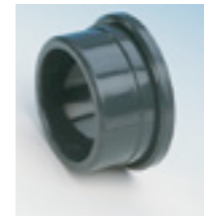
3VC.LV1



PVC-U Socket for VSK/VSA/VRO Valve Plain

D	Code
3/8"	3VC.LV1.L16
1/2"	3VC.LV1.L20
3/4"	3VC.LV1.L25
1"	3VC.LV1.L32
1 1/4"	3VC.LV1.L40
1 1/2"	3VC.LV1.L50
2"	3VC.LV1.L63
2 1/2"	3VC.LV1.L75
3"	3VC.LV1.L90
4"	3VC.LV1.L91

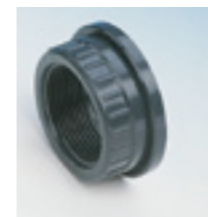
3V.CLV1I



PVC-U Socket for VSK/VSA/VRO Valve Plain

D	Code
16	3V.CLV1I.16
20	3V.CLV1I.20
25	3V.CLV1I.25
32	3V.CLV1I.32
40	3V.CLV1I.40
50	3V.CLV1I.50
63	3V.CLV1I.63
75	3V.CLV1I.75
90	3V.CLV1I.90
110	3V.CLV1I.91

3V.CLV1F



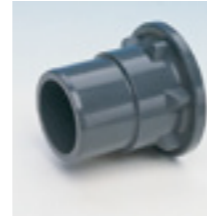
PVC-U Socket for VSK/VSA/VRO Valve BSP

G	Code
3/8"	3V.CLV1F.16
1/2"	3V.CLV1F.20
3/4"	3V.CLV1F.25
1"	3V.CLV1F.32
1 1/4"	3V.CLV1F.40
1 1/2"	3V.CLV1F.50
2"	3V.CLV1F.63
2 1/2"	3V.CLV1F.75
3"	3V.CLV1F.90
4"	3V.CLV1F.91

PVC-U Socket for VSK Valve Plain

D	Code
16	3V.CLV1Y.16
20	3V.CLV1Y.16
25	3V.CLV1Y.25
32	3V.CLV1Y.32
40	3V.CLV1Y.40
50	3V.CLV1Y.50
90	3V.CLV1Y.90
110	3V.CLV1Y.91

3V.CLV1Y



PVC-U 3VGHR0 VSK-VRO-VSA Valve Nuts

D	Code
20	3VG.HR0.A20
25	3VG.HR0.A25
32	3VG.HR0.A32
40	3VG.HR0.A40
50	3VG.HR0.A50
63	3VG.HR0.A63
75	3VG.HR0.A75
90	3VG.HR0.A90
110	3VG.HR0.A91



Screen for Foot Valve PP for VRF.11F

G	Code
1/2"	ARV.SCP.F20
3/4"	ARV.SCP.F25
1"	ARV.SCP.F32
1 1/4"	ARV.SCP.F40
1 1/2"	ARV.SCP.F50
2"	ARV.SCP.F63
3"	ARV.SCP.F90

SCP



Pipe Clips PP

D	Code
3/8"	PBSCLP160
1/2"	PBSCLP200
3/4"	PBSCLP250
1"	PBSCLP320
1 1/4"	PBSCLP400
1 1/2"	PBSCLP500
2"	PBSCLP630
2 1/2"	PBSCLP750
3"	PBSCLP900
4"	PBSCLP910
5"/140	PBSCLP930
6"	PBSCLP940
8"	PBSCLP970



Fixing Bracket PVC-U

D	Code
20	AVS.STF.200
25	AVS.STF.250
32	AVS.STF.320
40	AVS.STF.400
50	AVS.STF.500
63	AVS.STF.630

AVS.STF



Actuator Bracket with 6 bolts & 2 nuts

D	Code
20	AVS.SVM.200
25	AVS.SVM.250
32	AVS.SVM.320
40	AVS.SVM.400
50	AVS.SVM.500
63	AVS.SVM.630

AVS.SVM



Transmission Stem stainless steel for valve actuator

D	Code
20	2.AST01.200
25	2.AST01.250
32	2.AST01.320
40	2.AST02.400
50	2.AST02.500
63	2.AST02.630

AST





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