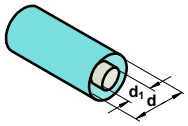
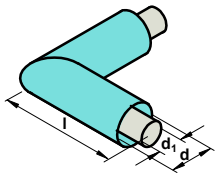
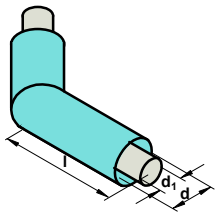
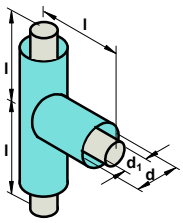
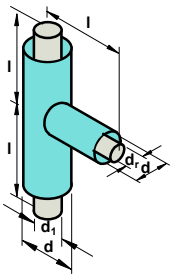
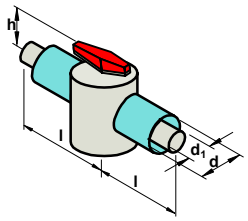
PIPE (6m lengths)	d/d_1	t (av. wall)	PN bar	CODE	Weight/m	6m lgths
	60/20	3.4/2.3	2/10	DC.060.P20	0.682	1
	60/25	3.4/2.3	2/10	DC.060.P25	0.712	1
	60/32	3.4/2.9	2/10	DC.060.P32	0.812	1
	89/40	5.0/3.7	2/10	DC.089.P40	1.633	1
	89/50	5.0/4.6	2/10	DC.089.P50	1.863	1
	114/63	5.0/5.8	2/10	DC.114.P63	2.250	1
	114/63	5.0/3.6	2/6	?	2.600	1
	168/75	6.4/6.8	2/10	DC.168.P75	4.415	1
	168/90	6.4/8.2	2/10	DC.168.P90	4.345	1
	168/90	6.4/5.1	2/6	?	5.055	1
	168/110	6.4/10.0	2/10	DC.168.P110	5.015	1
	168/110	6.4/6.3	2/6	?	6.045	1

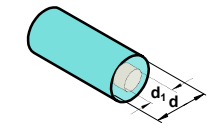
90° ELBOW	d/d_1	t (av. wall)	PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4/2.3	2/10	DC.060.E20	230	0.314	1
	60/25	3.4/2.3	2/10	DC.060.E25	230	0.328	1
	60/32	3.4/2.9	2/10	DC.060.E32	230	0.374	1
	89/40	5.0/3.7	2/10	DC.089.E40	330	1.078	1
	89/50	5.0/4.6	2/10	DC.089.E50	330	1.230	1
	114/63	5.0/5.8	2/10	DC.114.E63	365	1.898	1
	114/63	5.0/3.6	2/6	?	365	1.643	
	168/75	6.4/6.8	2/10	DC.168.E75	435	3.841	1
	168/90	6.4/8.2	2/10	DC.168.E90	435	4.398	1
	168/90	6.4/5.1	2/6	?	435	3.780	
	168/110	6.4/10.0	2/10	DC.168.E110	435	5.259	1
	168/110	6.4/6.3	2/6	?	435	4.363	

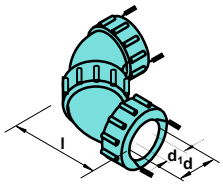
45° ELBOW	d/d_1	t (av. wall)	PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4/2.3	2/10	DC.060.A20	230	0.314	1
	60/25	3.4/2.3	2/10	DC.060.A25	230	0.328	1
	60/32	3.4/2.9	2/10	DC.060.A32	230	0.374	1
	89/40	5.0/3.7	2/10	DC.089.A40	330	1.078	1
	89/50	5.0/4.6	2/10	DC.089.A50	330	1.230	1
	114/63	5.0/5.8	2/10	DC.114.A63	365	1.898	1
	114/63	5.0/3.6	2/6	?	365	1.643	1
	168/75	6.4/6.8	2/10	DC.168.A75	435	3.841	1
	168/90	6.4/8.2	2/10	DC.168.A90	435	4.398	1
	168/90	6.4/5.1	2/6	?	435	3.780	1
	168/110	6.4/10.0	2/10	DC.168.A110	435	5.259	1
	168/110	6.4/6.3	2/6	?	435	4.363	1

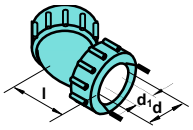
TEE	d/d_1	t (av. wall)	PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4/2.3	2/10	DC.060.T20	230	0.471	1
	60/25	3.4/2.3	2/10	DC.060.T25	230	0.491	1
	60/32	3.4/2.9	2/10	DC.060.T32	230	0.560	1
	89/40	5.0/3.7	2/10	DC.089.T40	330	1.617	1
	89/50	5.0/4.6	2/10	DC.089.T50	330	1.844	1
	114/63	5.0/5.8	2/10	DC.114.T63	365	2.847	1
	114/63	5.0/3.6	2/6	?	365	2.464	1
	168/75	6.4/6.8	2/10	DC.168.T75	435	5.762	1
	168/90	6.4/8.2	2/10	DC.168.T90	435	6.597	1
	168/90	6.4/5.1	2/6	?	435	5.670	1
	168/110	6.4/10.0	2/10	DC.168.T110	435	7.889	1
	168/110	6.4/6.3	2/6	?	435	6.545	1

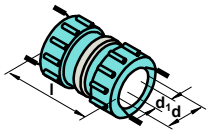
TEE REDUCERS	d/d_1 d/d_r	t (av. wall)	PN bar	CODE	l	Weight	Pack Qty
	60/25 60/20	3.4/2.3 3.4/2.3	2/10	DC.060.R25/20	230		
	60/32 60/25	3.4/2.9 3.4/2.3	2/10	DC.060.R32/25	230		
	60/32 60/20	3.4/2.9 3.4/2.3	2/10	DC.060.R32/20	230		
	89/40 60/32	5.0/3.7 3.4/2.9	2/10	DC.089.R40/32	330		
	89/40 60/25	5.0/3.7 3.4/2.9	2/10	DC.089.R40/25	330		
	89/50 89/40	5.0/4.6 5.0/3.7	2/10	DC.089.R50/40	330		
	89/50 60/32	5.0/4.6 3.4/2.9	2/10	DC.089.R50/32	330		
	114/63 89/50	5.0/5.8 5.0/4.6	2/10	DC.114.R63/50	365		
This is a selection of common reducers, all other reducer options are available.	114/63 60/32	5.0/5.8 3.4/2.9	2/10	DC.114.R63/32	365		
	168/75 114/63	6.4/6.8 5.0/5.8	2/10	DC.168.R75/63	435		
	168/90 168/75	6.4/8.2 6.4/6.8	2/10	DC.168.R90/75	435		
	168/90 114/63	6.4/8.2 5.0/5.8	2/10	DC.168.R90/63	435		
	168/110 168/90	6.4/10.0 6.4/8.2	2/10	DC.168.R110/90	435		
	168/110 114/63	6.4/10.0 5.0/5.8	2/10	DC.168.R110/63	435		

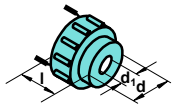
VALVE	d/d_1	t (av. wall)	PN bar	CODE	l	h	Weight	Pack Qty
	60/20	3.4/2.3	2/10	DC.060.V20	230			1
	60/25	3.4/2.3	2/10	DC.060.V25	230			1
	60/32	3.4/2.9	2/10	DC.060.V32	230			1
	89/40	5.0/3.7	2/10	DC.089.V40	330			1
	89/50	5.0/4.6	2/10	DC.089.V50	330			1
	114/63	5.0/5.8	2/10	DC.114.V63	365			1
	114/63	5.0/3.6	2/6	?	365			
	168/75	6.4/6.8	2/10	DC.168.V75	435			1
	168/90	6.4/8.2	2/10	DC.168.V90	435			1
	168/90	6.4/5.1	2/6	?	435			
EPDM seals	168/110	6.4/10.0	2/6	DC.168.V110	435			1

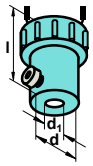
SECONDARY PIPE c/w spacers	d/d_1		PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4	2	DC.060.S20			1
	60/25	3.4	2	DC.060.S25			1
	60/32	3.4	2	DC.060.S32			1
	89/40	5.0	2	DC.089.S40			1
	89/50	5.0	2	DC.089.S50			1
	114/63	5.0	2	DC.114.S63			1
	168/75	6.4	2	DC.168.S75			1
	168/90	6.4	2	DC.168.S90			1
	168/110	6.4	2	DC.168.S110			1

SECONDARY 90° ELBOW	d/d_1		PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4	2	DC.060.SE20			1
	60/25	3.4	2	DC.060.SE25			1
	60/32	3.4	2	DC.060.SE32			1
	89/40	5.0	2	DC.089.SE40			1
	89/50	5.0	2	DC.089.SE50			1
	114/63	5.0	2	DC.114.SE63			1
	168/75	6.4	2	DC.168.SE75			1
	168/90	6.4	2	DC.168.SE90			1
	168/110	6.4	2	DC.168.SE110			1

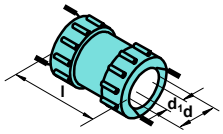
SECONDARY 45° ELBOW	d/d_1		PN bar	CODE	l	Weight	Pack Qty
	60/20	3.4	2	DC.060.SE20			1
	60/25	3.4	2	DC.060.SE25			1
	60/32	3.4	2	DC.060.SE32			1
	89/40	5.0	2	DC.089.SE40			1
	89/50	5.0	2	DC.089.SE50			1
	114/63	5.0	2	DC.114.SE63			1
	168/75	6.4	2	DC.168.SE75			1
	168/90	6.4	2	DC.168.SE90			1
	168/110	6.4	2	DC.168.SE110			1

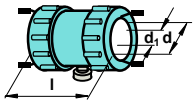
ZONE ISOLATOR	d/d_1		PN bar	CODE	l	Weight	Pack Qty
	60/20		2/10	DC.060.ZI20	87		1
	60/25		2/10	DC.060.ZI25	87		1
	60/32		2/10	DC.060.ZI32	87		1
	89/40		2/10	DC.089.ZI40	131		1
	89/50		2/10	DC.089.ZI50	131		1
	114/63		2/10	DC.114.ZI63	134		1
	168/75		2/10	DC.168.ZI75	137		1
	168/90		2/10	DC.168.ZI90	137		1
EPDM seal	168/110		2/10	DC.168.ZI110	137		1

END TERMINATION	d/d_1		PN bar	CODE	l	Weight	Pack Qty
	60/20		2/10	DC.060.ET20	87		1
	60/25		2/10	DC.060.ET25	87		1
	60/32		2/10	DC.060.ET32	87		1
	89/40		2/10	DC.089.ET40	131		1
	89/50		2/10	DC.089.ET50	131		1
	114/63		2/10	DC.114.ET63	134		1
	168/75		2/10	DC.168.ET75	137		1
	168/90		2/10	DC.168.ET90	137		1
EPDM seal	168/110		2/10	DC.168.ET110	137		1

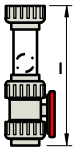
END TERMINATION c/w DRAIN POINT	d/d_1	PN bar	CODE	l	Weight	Pack Qty
	60/20	2/10	DC.060.ET20	140		1
	60/25	2/10	DC.060.ET25	140		1
	60/32	2/10	DC.060.ET32	140		1
	89/40	2/10	DC.089.ET40	180		1
	89/50	2/10	DC.089.ET50	180		1
	114/63	2/10	DC.114.ET63	185		1
	168/75	2/10	DC.168.ET75	190		1
	168/90	2/10	DC.168.ET90	190		1
	168/110	2/10	DC.168.ET110	190		1

EPDM seal

OVERSLEEVE	d/d_1	PN bar	CODE	l	Weight	Pack Qty
	60/20	2/10				1
	60/25	2/10	DC.060.OS-			1
	60/32	2/10				1
	89/40	2/10	DC.089.OS-			1
	89/50	2/10				1
	114/63	2/10	DC.114.OS-			1
	168/75	2/10				1
	168/90	2/10	DC.168.OS-			1
	168/110	2/10				1

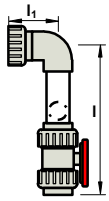
OVERSLEEVE/ ALARM POINT	d/d_1	PN bar	CODE	l	Weight	Pack Qty
	60/20	2/10				1
	60/25	2/10	DC.060.OSA			1
	60/32	2/10				1
	89/40	2/10	DC.089.OSA			1
	89/50	2/10				1
	114/63	2/10	DC.114.OSA			1
	168/75	2/10				1
	168/90	2/10	DC.168.OSA			1
	168/110	2/10				1

VISUAL ALARM POINT		CODE	l	Weight	Pack Qty
		DC.025.VAP	230		1



EPDM seals
PVC sight tube

VISUAL ALARM POINT 90°		CODE	l	l_1	Weight	Pack Qty
		DC.025.VAP/90	230	56		1



EPDM seals
PVC sight tube

ELECTROFUSION COUPLER 39.5v	d	PN bar	CODE	d	l	Weight (KG)	Pack Qty
	20	10	EP.020.EFC	30	69	0.035	1
	25	10	EP.025.EFC	35	77	0.055	1
	32	10	EP.032.EFC	44	79	0.062	1
	40	10	EP.040.EFC	53	91	0.100	1
	50	10	EP.050.EFC	64	102	0.133	1
	63	10	EP.063.EFC	80	117	0.225	1
	75	10	EP.075.EFC	95	128	0.340	1
	90	10	EP.090.EFC	112	144	0.480	1
	110	10	EP.110.EFC	136	159	0.820	1

INSTALLATION INSTRUCTION

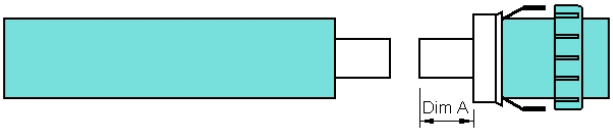
Cleanliness and preparation is paramount to a good installation. The welding surfaces of the pipe, fitting and Fusion Lock™ seal must be kept clean, dry and grease free. After cleaning do not handle with bare hands.

Cut primary pipe square to appropriate length and deburr ends. Cut secondary pipe to length of primary pipe less two times dimension A and chamfer ends.

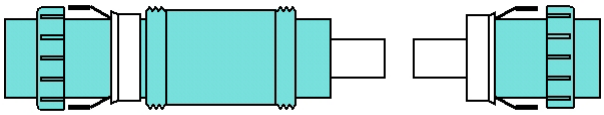
Secondary Pipe		Dim A (mm)
51 (2")	PZ.060.P--	60
76 (3")	PZ.089.P--	80
102 (4")	PZ.114.P--	90
152 (6")	PZ.168.P--	110

Clean each secondary pipe for a length of approx 500mm, slide on the locking nut first then Fusion Lock™ seal over the secondary containment pipe.

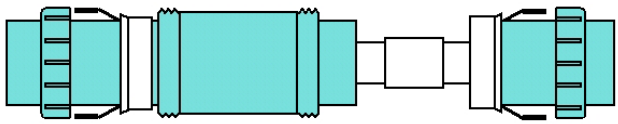
Important: Do not use any lubricants.



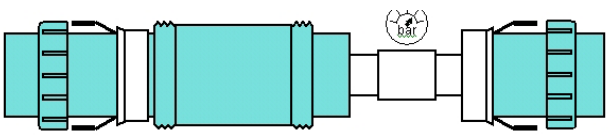
Slide the remaining locking nut, Fusion Lock™ seal and oversleeve over the secondary containment of the pipe to be jointed.



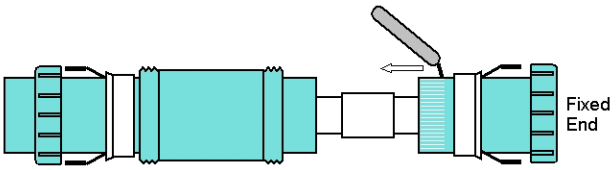
Make primary pipe joint (see instructions elsewhere). Make sure primary joint has cured and proceed to next joint. Before completing the last primary pipe joint between two fittings ensure there is adequate secondary containment pipe, allowing two times dimension A per joint.



Complete the primary pipe installation and pressure test before jointing the secondary containment.

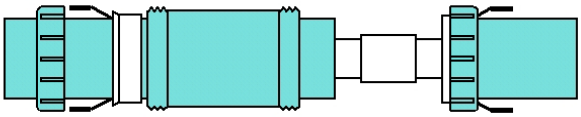


To joint the secondary containment start from one end where the secondary containment is fixed in relation to the primary pipe. Scrape the surface of the secondary containment pipe using the scraping tool TS.001.PSC. Make strokes along the pipe towards the pipe end and repeat around the circumference removing the pipe surface fully. The length of stroke to be at least as long as the Fusion Lock™ seal.

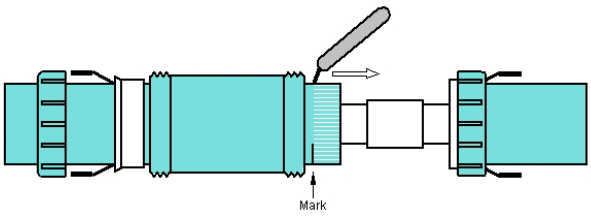


STEP 6

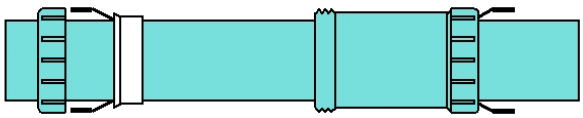
Bring the nut up to the Fusion Lock™ seal by inserting the terminals through the gaps provided, and then draw the Fusion Lock™ seal to a position flush with the end of the secondary containment pipe.



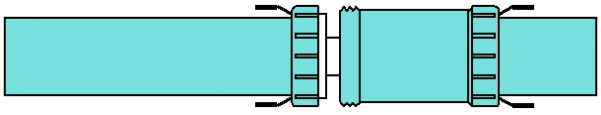
Slide the oversleeve body back over the mating containment pipe and scrape the end of the pipe as detailed in Step 5.



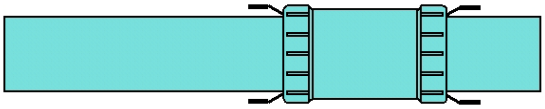
Slide the oversleeve body back across the gap and over the first Fusion Lock™ seal and tighten till snug using appropriate CPV-Zurn spanner.



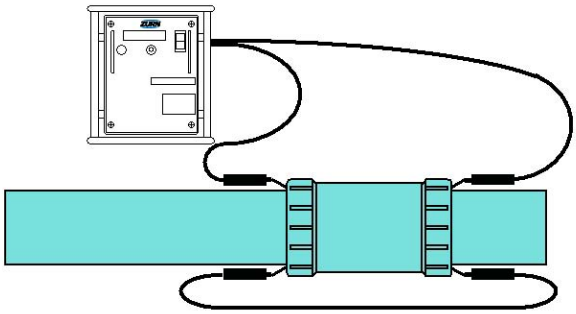
Retract the mating secondary containment pipe, pull the locking nut up to the Fusion Lock™ seal and draw the seal along the pipe until it is flush with the end as in Step 6.



Enter the pipe end and Fusion Lock™ seal into the oversleeve socket and tighten the locking nut till snug using the appropriate CPV-Zurn spanner.



The secondary containment oversleeve is now ready for welding using the CPV-Zurn WELDER (See instructions elsewhere).

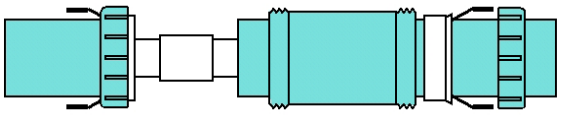


FINAL JOINT

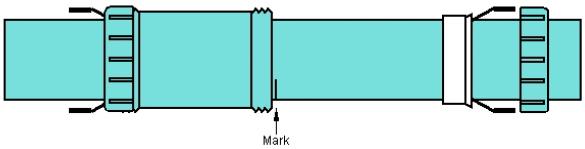
For the final joint in a run or where the mating secondary pipe is fixed and not retractable, proceed as follows;

STEP F1

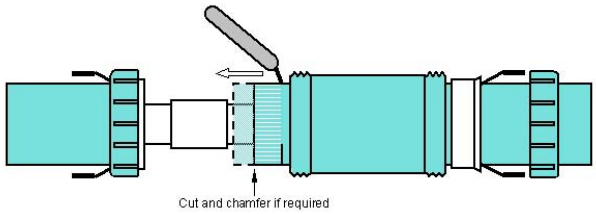
Starting at the end with the shortest containment pipe, scrape the pipe as in Step 5 and bring the locking nut and Fusion Lock™ seal flush with the pipe end as in Step 6.



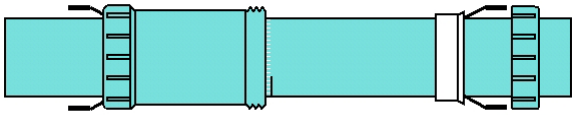
Slide the oversleeve body across the gap and over the Fusion Lock™ seal drawing up to a loose fit with the locking nut. Mark the position of the other end of the oversleeve on the containment pipe.



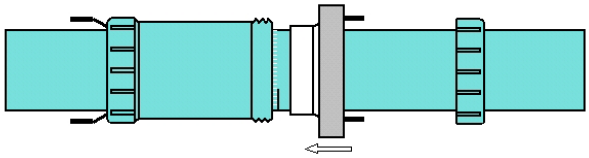
Undo the locking nut and slide the oversleeve back over the secondary containment pipe. (Cut and chamfer the secondary containment pipe if required.) Scrape the secondary containment pipe from the mark towards the pipe end for a distance at least as long as the Fusion Lock™ seal as in Step 5.



Slide the oversleeve body back over the first Fusion Lock™ seal. Bring up the locking nut and tighten till snug using the appropriate CPV-Zurn spanner.

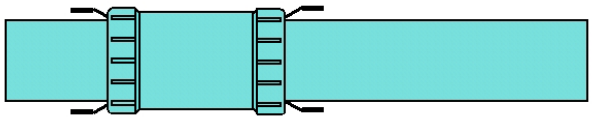


Slide the second Fusion Lock™ seal along the mating containment pipe using the tool provided TS.001.OST and into the socket of the oversleeve body.



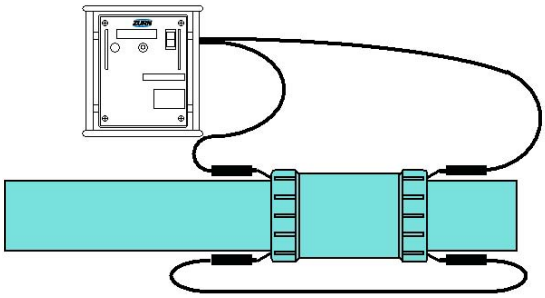
STEP F6

Bring up the nut and tighten as before.



STEP F7

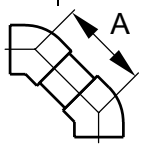
The final secondary containment oversleeve is now ready for welding using the CPV-Zurn WELDER (See instructions elsewhere).



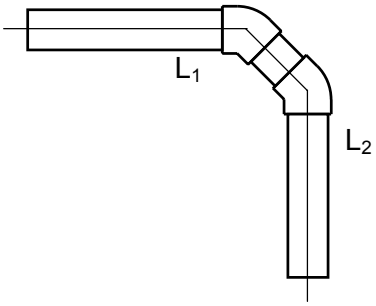
Cleanliness and preparation is paramount to a good installation. The welding surfaces of the pipe, fitting and Fusion Lock™ seal must be kept clean, dry and grease free. After cleaning do not handle with bare hands.

To produce 90 degree bends on site the primary 90 degree bend must be manufactured using 2 No 45 degree fittings with a centre to centre dimension (Dim A)

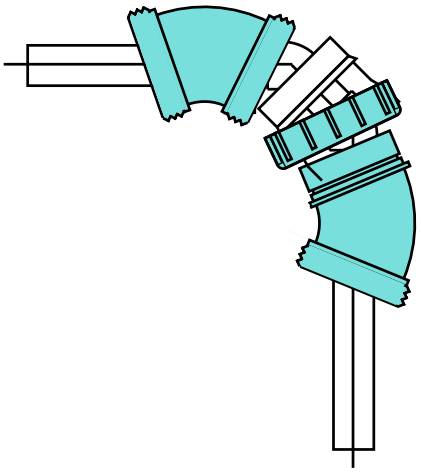
Secondary Pipe	Primary Pipe (Max OD)	Dim A (mm)
51 (2")	33mm	74
76 (3")	50mm	147
102 (4")	63mm	163



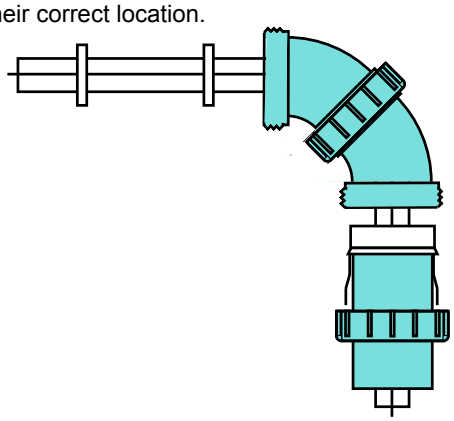
Join lengths L_1 and L_2 to the primary bend.



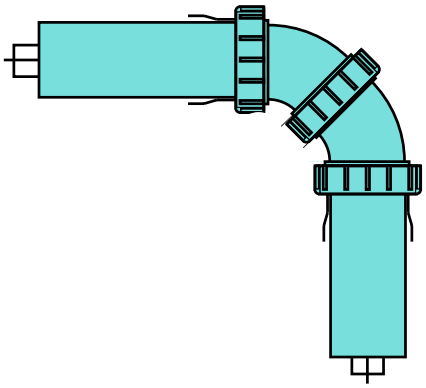
The secondary containment pipe is constructed using a 2 part long bend (LS90-*-F).
Separate the fitting and slide one fitting from one end and one fitting from the other ensuring the nut, olive and spigot end are in their correct location.



The spacers are attached to the primary pipe and the secondary pipe slid over, again ensuring the nut and olive are in their correct location.



The secondary pipework can now be 'dry' assembled.



STEP 6

Proceed as per Dual Containment Pipe Systems Installation Instructions ensuring the primary pipework proceeds beyond the secondary pipework by specified dimension.

STEP 7

Once the primary pipework has been completed a test should be carried out. The unjointed secondary containment can usually be slid around the pipework allowing inspection of the primary joints.