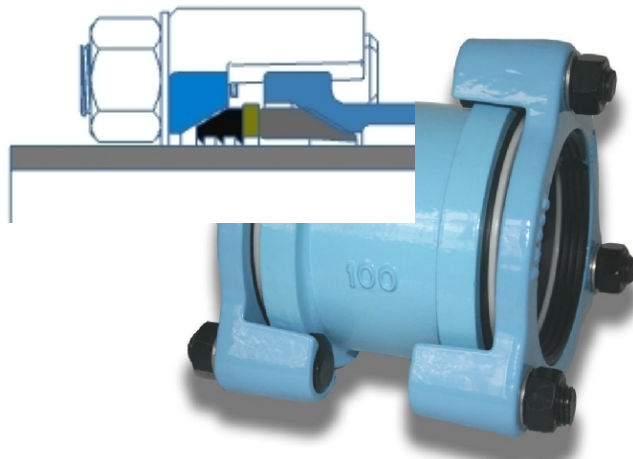


Love the Nature. Enjoy your Life

Steel Lock series

Bolted Mechanical fittings



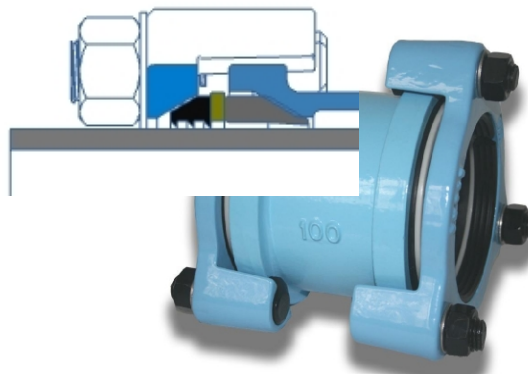
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Bolted Mechanical fittings

Steel Lock series

The Steel Lock series of Bolted Mechanical Fittings are designed for Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply with ductile iron lock rings that anchor into the pipe end to supply strong axial restraint, thus preventing pipe pull-out.

The Steel Lock series of Bolted Mechanical Fittings can be also used with other Imperial pipes including PE pipe, ABS Pipe and Steel Pipe.



Available in sizes from DN65 to DN200 for all kinds of fittings including Couplings, Flange Adaptors, Elbows, Tees, Flange Tees and Caps etc. supplying complete solutions for connection:

- Plain End to Plain End
- Plain End to Flange
- Plain End to Female PT Thread

with working pressure 1.0Mpa / 1.6Mpa for water and 0.4MPa for gas.

Features and Benefit:

■ End Load Bearing

The Steel Lock series of Mechanical Fittings are designed with fully machined Lock Rings made of ductile iron to bear End load according to Type 2 performance requirements of the UK Water Industry Specification WIS-24-01.

■ Fast and easy piping work

Bolted Mechanical Fittings are designed for a wide variety of plain-ended pipes connection, no more need on-site threading or welding, just push on the pipe and tighten the short T-bolts, the fittings will form an effective permanent leak tight joint.

Piping work in narrow corners and in all weathers is possible now by using Bolted Mechanical Fittings .

■ Full protection and high reliability

Inside and outside surfaces of the body and End Rings are Epoxy Powder Coated.

The Lock rings, T-bolts and Nuts are Cathode electrophoresis coated, elastomeric gaskets are made of the best materials available for the duty to supply high reliability.

The Steel Lock series of Bolted Mechanical Fittings made of ductile cast iron are designed to last the life of the pipeline in all weather conditions including cold region.

■ Setting Angularity allowed

The Steel Lock series of Bolted Mechanical Fittings are designed to allow upto 6° Setting Angularity.

The joint flexibility make long curve pipeline connection possible without special bends and allows piping work on rough or uneven terrain even in condition of ground settlement.

■ Silent and safe fluid handling

Gap at pipe ends and elastomeric gaskets can isolate and absorb noise and vibration caused by turbulent flow.

Mechanical Fittings can be used as Unions to supply extra convenience when removing pipes for maintenance or rotation of pipe section for cleaning or wear reduction.



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Bolted Mechanical fittings

Steel Lock series

The Steel Lock series of Bolted Mechanical Fittings are manufactured in our own factories under quality management system in accordance with ISO 9001:2008.



Parts and Material

Body, End rings and Lock rings

Ductile Cast Iron to BS EN 1563 Grade GJS450-10

T-Bolts and Nuts

to BS EN 20898-1 Grade 4.8

Gaskets

EPDM: to BS2494:Type W&D

Suitable for Potable water, Sewage and Chemicals (not suitable for Petroleum products).

Suitable Temperature range: -40°C to +90°C.

NBR: to DIN3535-3

Suitable for Natural gas and Petroleum products (not suitable for Potable water).

Suitable Temperature range: -20°C to +100°C.

Washers

Acetal copolymer Grade M90 or equivalent.

Coating

Body and End rings are Epoxy powder coated in WRAS approved material. Lock rings, T-Bolts and nuts are protected by Cathode electrophoresis coating against corrosion.

Coating thickness for Cathode electrophoresis: $\geq 20\mu$ (Lock rings)

$20\pm 5\mu$ (T-Bolts and nuts)

Coating thickness for Epoxy powder coating: $\geq 150\mu$



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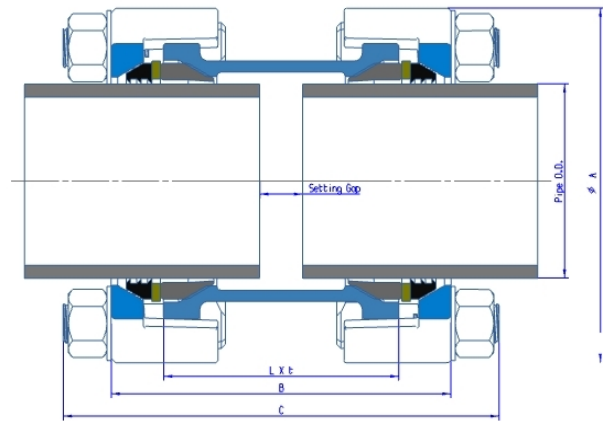
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Bolted Mechanical fittings

Steel Lock series

Coupling

Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D.	Coupling Overall			Body		Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L	t	Min	Max	n- M x L	Kg
65	76	168	139	190	90	4.5	8	22	3-M18x76	4.4
80	89	182	166	204	110	5	9	32	3-M18x76	5.5
80L	89	182	216	254	160	5	9	82	3-M18x76	6.7
100	114	219	184	206	118	6	12	30	3-M18x76	8.9
100L	114	219	246	268	180	6	12	92	3-M18x76	10.7

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.

The Coupling is designed without pipe stopper in the middle of the body allowing pipe line repair usage. The whole coupling can be slid completely over the end of the pipe to enable a repair pipe piece inserted.



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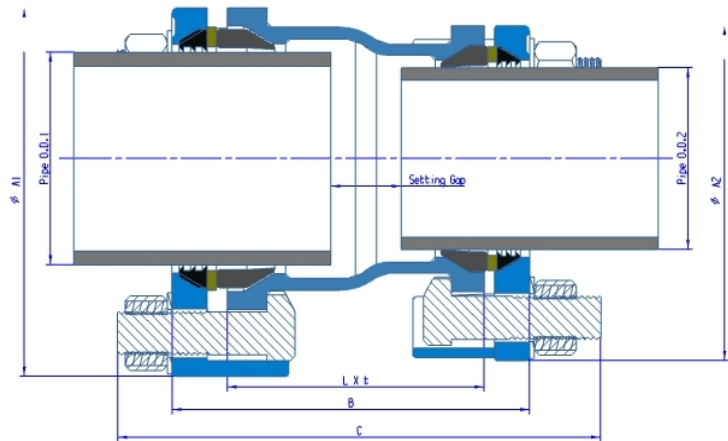
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Bolted Mechanical fittings

Steel Lock series

Reducing Coupling

Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D. (HIVP*)		Fitting Overall				Body		Weight
	Large	Small	A1	A2	B	C	L	t	Kg
80X65	89	76	182	168	162	207	110	5	5.2
100X65	114	76	219	168	199	236	142	6	7.5
100X80	114	89	219	182	211	241	150	6	7.9
Size	Setting Gap		Bolts-Large Side		Bolts-Small Side				
	Min	Max	n- M x L		n- M x L				
80X65	8	37	3-M18x76		3-M18x76				
100X65	8	64	3-M18x76		3-M18x76				
100X80	9	67	3-M18x76		3-M18x76				

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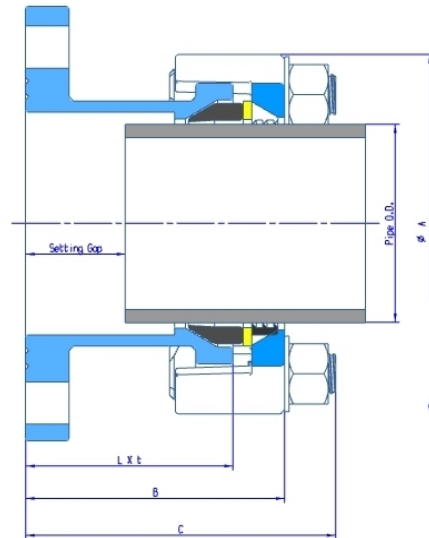
Bolted Mechanical fittings

Steel Lock series

Flange Adaptor



Plain End to Flange



Main Dimensions

Unit: mm

Size	Pipe O.D.	Coupling Overall			Body		Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L	t	Min	Max	n- M x L	Kg
80X80F	89	182	123	142	95	5	9	60	3-M18x76	6.0
100X100F	114	219	142	153	109	6	12	66	3-M18x76	8.1

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.

When ordering, please notice flange Specification PN10/PN16 or JIS 10K



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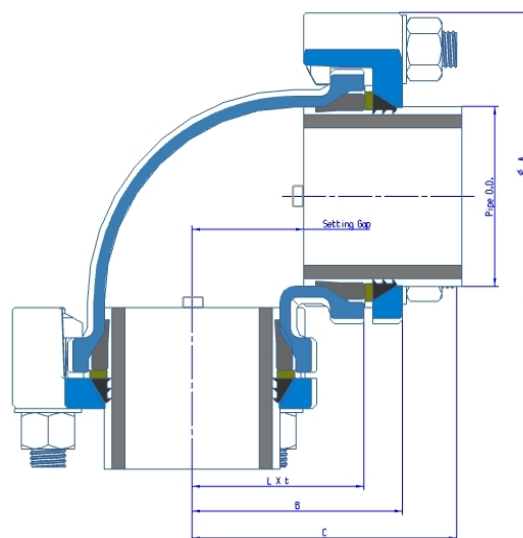
Bolted Mechanical fittings

Steel Lock series

Elbow



Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D.	Coupling Overall			Body		Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L	t	Min	Max	n- M x L	Kg
65	76	168	99	125	75	4.5	42	45	3-M18x76	5.1
80	89	182	115	134	87	5	48	53	3-M18x76	6.0
80L	89	182	186	205	158	5	78	124	3-M18x76	7.9
100	114	219	144	155	111	6	61	72	3-M18x76	10.1
100L	114	219	215	226	182	6	92	143	3-M18x76	13.2

- * JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.



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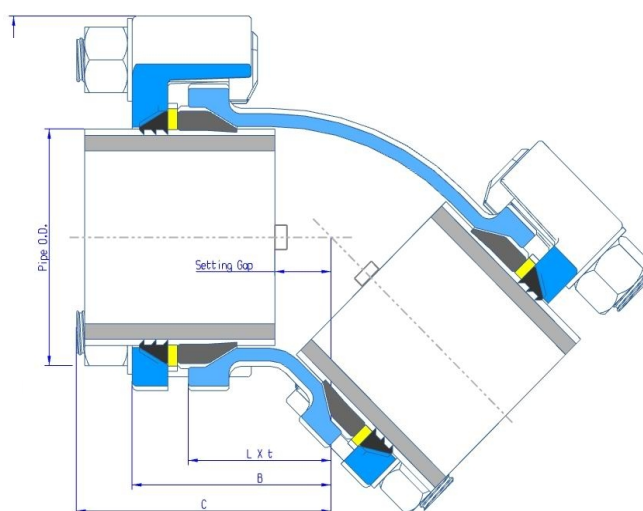
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Bolted Mechanical fittings

Steel Lock series

Elbow 45° ,22.5°, 11.25°

Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D.	Coupling Overall			Body		Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L	t	Min	Max	n- M x L	Kg
65X45°	76	168	74	100	50	4.5	15	20	3-M18x76	5.1
80X45°	89	182	88	107	60	5	20	26	3-M18x76	5.7
80LX45°	89	182	146	166	118.5	5	39	85	3-M18x76	7.2
100X45°	114	219	107	118	74	6	27	35	3-M18x76	9.1
100LX45°	114	219	164	175	131	6	41	92	3-M18x76	11.6
65LX22.5°	76	168	88	114	64	4.5	14	34	3-M14x60	4.8
80X22.5°	89	182	92	112	64.5	5	25	31	3-M18x76	5.5
80LX22.5°	89	182	138	157	110	5	30	76	3-M18x76	7.1
100X22.5°	114	219	98	109	65	6	15	26	3-M18x76	8.7
100LX22.5°	114	219	156	167	123	6	33	84	3-M18x76	11.9
80X11.25°	89	182	82	101	54	5	14	20	3-M18x76	5.8
80LX11.25°	89	182	125	144	97	5	17	63	3-M18x76	6.8
100X11.25°	114	219	95	106	62	6	12	23	3-M18x76	9.3
100LX11.25°	114	219	138	149	105	6	15	66	3-M18x76	11.2

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.



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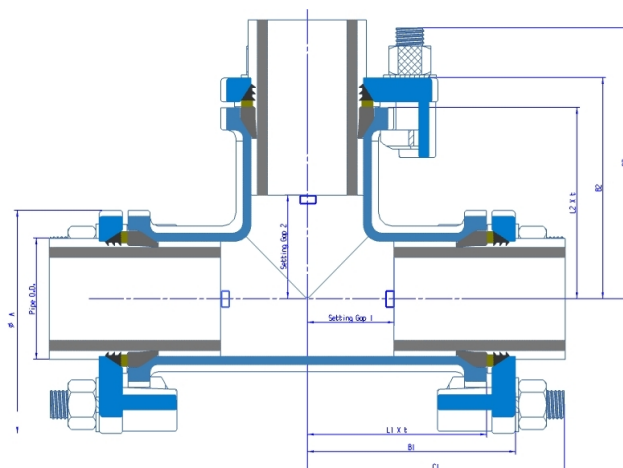
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Bolted Mechanical fittings

Steel Lock series

Tee

Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall					Body			Bolts	Weight
	HIVP * *	A	B1	B2	C1	C2	L1	L2	t	n- M x L	Kg
65X65	76	168	139	144	165	170	115	120	4.5	3-M18x76	8.1
80X80	89	182	151	151	170	170	123	123	5	3-M18x76	10.0
100X100	114	219	180	180	191	191	147	147	6	3-M18x76	16.3
Size	Setting Gap1		Setting Gap2								
	Min	Max	Min	Max							
65X65	55	85	55	90							
80X80	54	89	54	89							
100X100	67	108	67	108							

- * JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.



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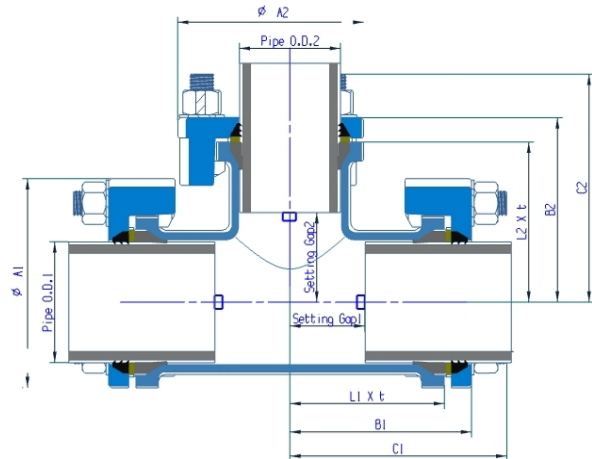
Bolted Mechanical fittings

Steel Lock series

Reducing Tee



Plain End to Plain End



Main Dimensions

Unit: mm

Size	Pipe O.D. (HIVP*)		Fitting Overall						Body			Weight
	Large	Small	A1	A2	B1	B2	C1	C2	L1	L2	t	Kg
80X65	89	76	182	168	144	142	163	168	116	118	5	9.4
100X65	114	76	219	168	161	156	172	182	128	132	6	13.8
100X80	114	89	219	182	167	159	178	179	134	132	6	14.6
Size	Setting Gap1		Setting Gap2		Bolts-Main		Bolts-Branch					
	Min	Max	Min	Max	n- M x L	n- M x L	n- M x L	n- M x L				
80X65	47	82	54	88	3-M18x76	3-M18x76	3-M18x76	3-M18x76				
100X65	48	89	67	102	3-M18x76	3-M18x76	3-M18x76	3-M18x76				
100X80	59	95	65	98	3-M18x76	3-M18x76	3-M18x76	3-M18x76				

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.



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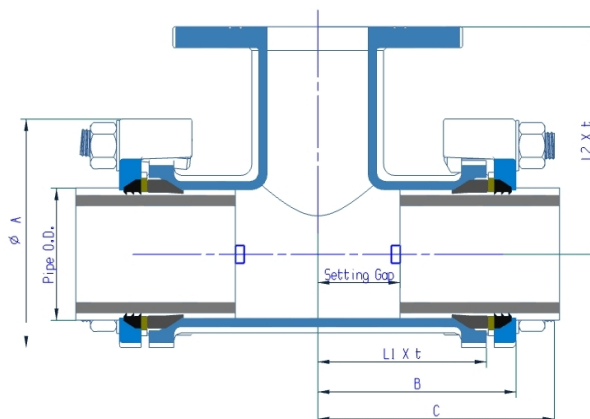
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Bolted Mechanical fittings

Steel Lock series

Flanged Tee

Plain End to Flange



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall			Body			Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L1	L2	t	Min	Max	n- M x L	Kg
80X80F	89	182	121	139	92	153	5	48	58	3-M18x76	10.1
80X100F	89	182	138	156	109	155	5	65	75	3-M18x76	12.3
100X80F	114	219	141	152	108	181	6	53	69	3-M18x76	15.0
100X100F	114	219	149	160	116	185	6	61	77	3-M18x76	16.5

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.

When ordering, please notice flange Specification PN10/PN16 or JIS 10K



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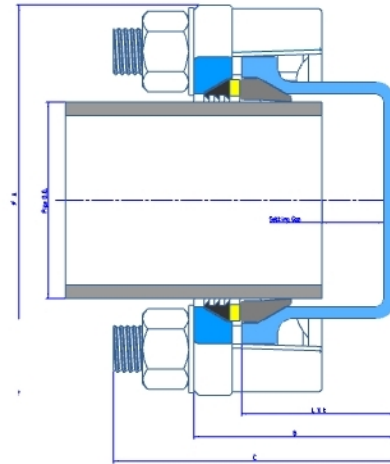
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Bolted Mechanical fittings

Steel Lock series

Cap

Plain End to Pipe End



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall			Body		Setting Gap		Bolts	Weight
	HIVP *	A	B	C	L	t	Min	Max	n- M x L	Kg
65	76	168	84	110	60	4.5	8	26	3-M18x76	2.5
80	89	182	98	117	70	5	9	31	3-M14x60	3.2
100	114	215	113	124	80	6	12	35	3-M18x76	5.2

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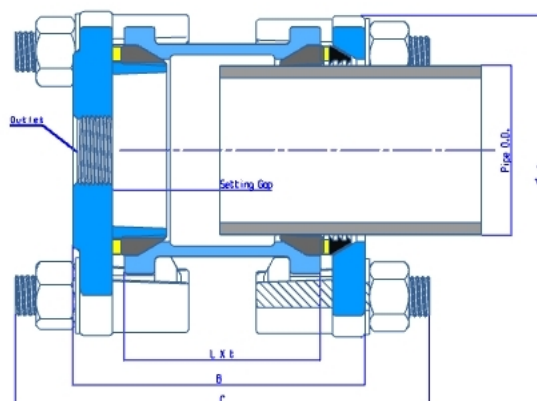
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Bolted Mechanical fittings

Steel Lock series

Outlet in Pipe End

Plain End to Female Thread



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall			Body		Setting Gap		Bolts	Weight
	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
65	76	168	142	190	90	4.5	33	66	3-M18x76	5.2

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.

This item can be supplied without outlet for use as end cap or with outlet connectable with threaded fittings. Outlet is available with 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" BSP or BSPT thread as per requirement.



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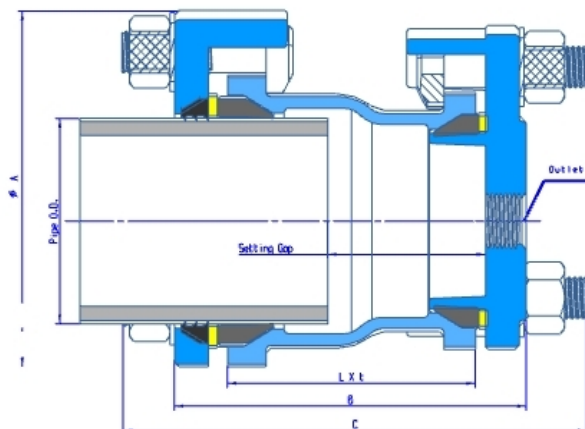
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Bolted Mechanical fittings

Steel Lock series

Outlet with Reducer

Plain End to Female Thread



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall			Body		Setting Gap		Bolts	Weight
	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
80	89	182	165	207	110	5	64	84	3-M18x76	6.1
100	114	219	202	236	142	6	73	114	3-M18x76	8.4

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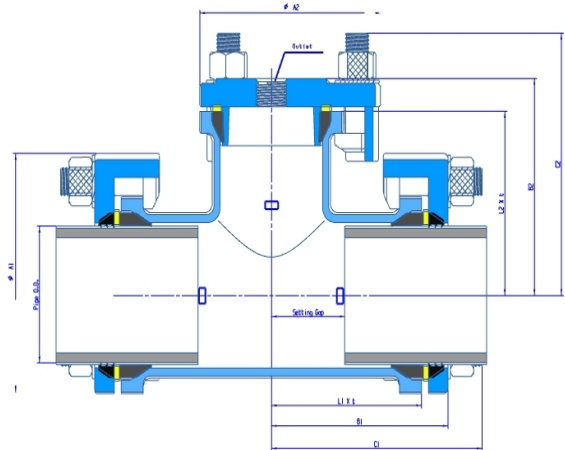
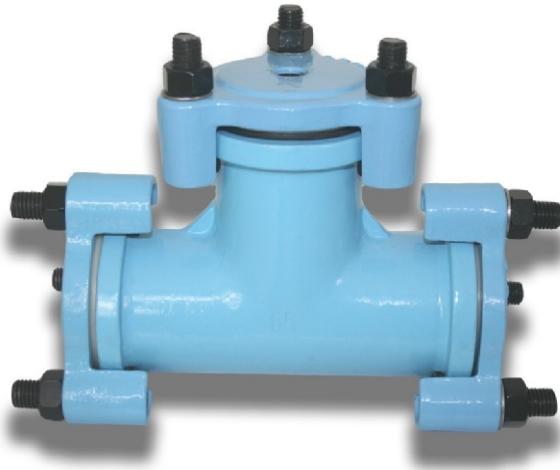
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Bolted Mechanical fittings

Steel Lock series

Outlet with Tee

Plain End to Female Thread



Main Dimensions

Unit: mm

Size	Pipe O.D.	Fitting Overall						Body			Setting Gap		Weight
	HIVP * *	A1	A2	B1	B2	C1	C2	L1	L2	t	Min	Max	Kg
65	76	168	169	139	147	165	170	115	120	4.5	55	85	9.0
80	89	182	169	144	145	163	168	116	118	5	47	82	10.3
100	114	219	169	161	159	172	182	128	132	6	48	89	14.7
Size	Bolts												
	n- M x L												
65	3-M18x76												
80	3-M18x76												
100	3-M18x76												

* JIS K 6742: Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply or other Imperial pipes including PVC pipe, PE Pipe, ABS pipe and Steel pipe.

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