

*Love the Nature. Enjoy your Life*

Standard series

## **Bolted Mechanical fittings**



Qingdao Rockpower Machinery Co., Ltd.

# Bolted Mechanical fittings

## Standard series

The Standard series of Bolted Mechanical fittings are designed to suit specified outside diameter tailored to your particular needs.

Typical pipes connectable with Standard series Bolted Mechanical fittings includes:

Polyethylene Pipes for water Industry,  
Epoxy Coated Steel Pipes for potable water,  
Stainless Steel Pipes,  
Galvanized Steel Pipes for water works,  
Carbon Steel Pipes for ordinary piping.



Available in sizes from DN50 to DN100 for all kinds of fittings including Couplings, Flange Adaptors, Elbows, Tees, Flanged 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:

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

The Standard 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.

#### ■ End load bearing

The Standard series of Bolted Mechanical fittings are designed with Lock rings made of Acetal copolymer to bear end load according to Type 2 performance requirements of the UK Water Industry Specification WIS-24-01.

#### ■ Setting Angularity allowed

The Standard 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 maitanance or retation of pipe section for cleaning or wear reduction.



Qingdao Rockpower Machinery Co., Ltd.

1506, Sino-Commerce Building, 100, Middle Hongkong Road, Qingdao, China  
[www.rockpower.cn](http://www.rockpower.cn)

Tel.: (0532) 8592-1910 8592-1920 Fax.: (0532) 8592-1252  
e-mail: [rockson@rockpower.cn](mailto:rockson@rockpower.cn)

# Bolted Mechanical fittings

## Standard series

The Standard 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 and End 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.

### Lock rings and Washers

Acetal copolymer Grade M90 or equivalent.

### Coating

Body and short T-bolts are Epoxy powder coated in WRAS approved material. T-Bolts and nuts are protected by Cathode electrophoresis coating against corrosion.

Coating thickness for Cathode electrophoresis:  $20 \pm 5 \mu$

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



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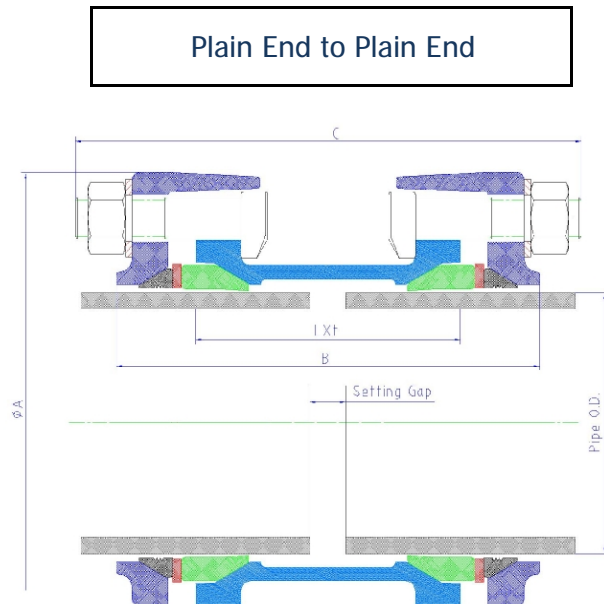
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# Bolted Mechanical fittings

## Standard series

### Coupling



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Coupling Overall			Body		Setting Gap		Bolts	Weight
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
50L	64.5	60	142	150	186	110	4	7	52	3-M14x60	3.9
65	80.3	76	168	145	190	90	4.5	8	22	3-M18x76	4.4
80	93.1	89	182	172	204	110	5	10	32	3-M18x76	5.4
80L	93.1	89	182	222	254	160	5	10	82	3-M18x76	6.6
100	118.3	114	219	196	206	118	6	12	30	3-M18x76	8.5
100L	118.3	114	219	258	268	180	6	12	92	3-M18x76	10.3

\* JWWA K 132: Polyethylene powder-coated steel pipe for water supply.

\* \* 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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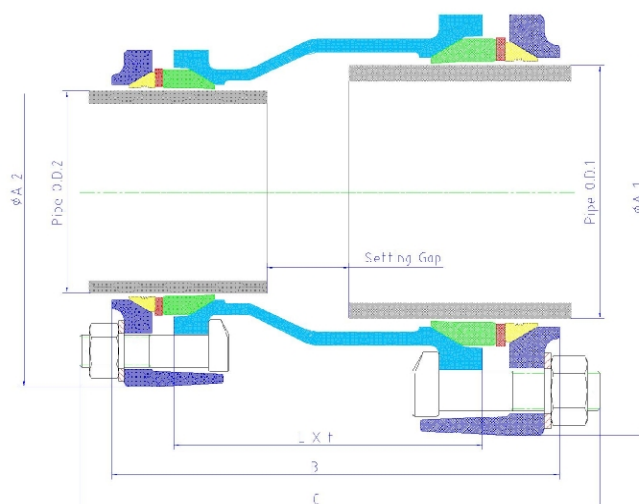
# Bolted Mechanical fittings

## Standard series

### Reducing Coupling



Plain End to Plain End



### Main Dimensions

Unit: mm

Size	Pipe O.D.1		Pipe O.D.2		Fitting Overall				Weight
	SGP-PD *	HIVP * *	SGP-PD *	HIVP * *	A1	A2	B	C	Kg
80X65	93.1	89	80.3	76	182	168	168	207	5.2
100X65	118.3	114	80.3	76	219	168	208	236	7.3
100X80	118.3	114	93.1	89	219	182	220	241	7.7
Size	Body		Setting Gap		Bolts-Large Side		Bolts-Small Side		
	L	t	Min	Max	n- M x L		n- M x L		
80X65	110	5	8	37	3-M18x76		3-M18x76		
100X65	142	6	8	64	3-M18x76		3-M18x76		
100X80	150	6	10	67	3-M18x76		3-M18x76		

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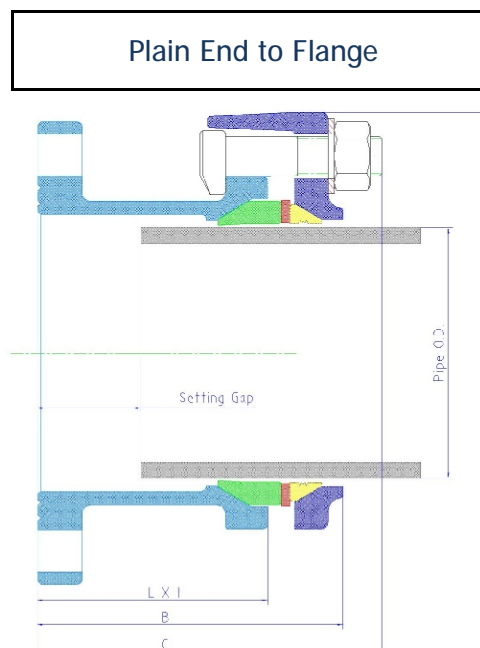
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# Bolted Mechanical fittings

## Standard series

### Flange Adaptor



#### Main Dimensions

Size	Pipe O.D.		Adaptor Overall			Body		Setting Gap		Bolts		Weight
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max	n- M x L		Kg
50X50F	64.5	60	142	110	127	90	4	7	65	3-M14x60		4.5
80X80F	93.1	89	182	126	142	95	5	10	60	3-M18x76		5.9
100X100F	118.3	114	219	148	153	109	6	12	66	3-M18x76		7.9

Unit: mm

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



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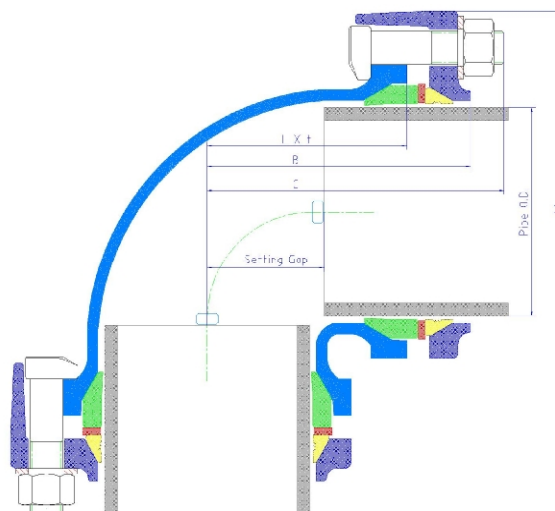
# Bolted Mechanical fittings

## Standard series

### Elbow



Plain End to Plain End



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall			Body		Setting Gap		Bolts	Weight
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
50L	64.5	60	142	122	139	102	4	52	77	3-M14x60	4.4
65	80.3	76	168	102	125	75	4.5	42	45	3-M18x76	5.2
80	93.1	89	182	118	134	87	5	48	53	3-M18x76	6.0
80L	93.1	89	182	189	205	158	5	78	124	3-M18x76	7.8
100	118.3	114	219	150	155	111	6	61	72	3-M18x76	9.7
100L	118.3	114	219	221	226	182	6	92	143	3-M18x76	12.8

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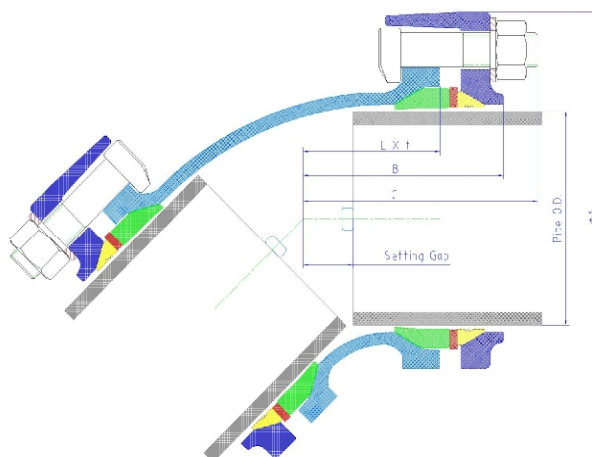
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 e-mail: [rockson@rockpower.cn](mailto:rockson@rockpower.cn)

# Bolted Mechanical fittings

## Standard series

Elbow 45° ,22.5°, 11.25°

Plain End to Plain End



## Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall			Body		Setting Gap		Bolts n- M x L	Weight Kg
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max		
50LX45°	64.5	60	142	92	109	71.5	4	22	47	3-M14x60	3.5
65X45°	80.3	76	168	77	100	50	4.5	15	20	3-M18x76	5.1
80X45°	93.1	89	182	91	107	60	5	20	26	3-M18x76	5.6
80LX45°	93.1	89	182	149	166	118.5	5	39	85	3-M18x76	7.1
100X45°	118.3	114	219	113	118	74	6	27	35	3-M18x76	8.7
100LX45°	118.3	114	219	170	175	131	6	41	92	3-M18x76	11.2
50LX22.5°	64.5	60	142	80	97	60.3	4	10	35	3-M14x60	4.0
65LX22.5°	80.3	76	168	91	114	64	4.5	14	34	3-M18x76	4.8
80X22.5°	93.1	89	182	95	112	64.5	5	25	31	3-M18x76	5.4
80LX22.5°	93.1	89	182	141	157	110	5	30	76	3-M18x76	7.0
100X22.5°	118.3	114	219	104	109	65	6	15	26	3-M18x76	8.3
100LX22.5°	118.3	114	219	162	167	123	6	33	84	3-M18x76	11.5
80X11.25°	93.1	89	182	85	101	54	5	14	20	3-M18x76	5.8
80LX11.25°	93.1	89	182	128	144	97	5	17	63	3-M18x76	6.7
100X11.25°	118.3	114	219	101	106	62	6	12	23	3-M18x76	8.9
100LX11.25°	118.3	114	219	144	149	105	6	15	66	3-M18x76	10.8

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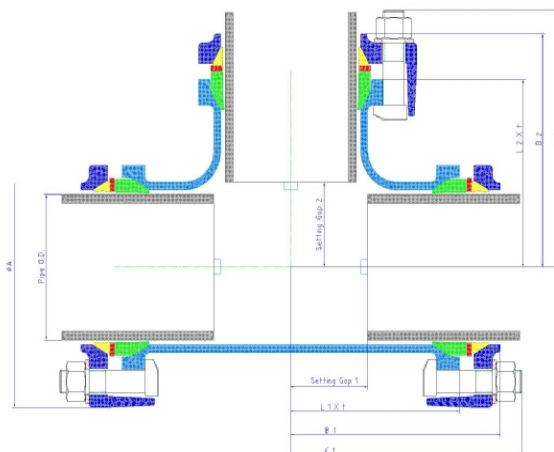
# Bolted Mechanical fittings

## Standard series

### Tee



Plain End to Plain End



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall					Body			Bolts
	SGP-PD *	HIVP * *	A	B1	B2	C1	C2	L1	L2	t	
50X50	64.5	60	142	122	122	139	139	102	102	4	3-M14x60
65X65	80.3	76	168	142	147	165	170	115	120	4.5	3-M18x76
80X80	93.1	89	182	154	154	170	170	123	123	5	3-M18x76
100X100	118.3	114	219	186	186	191	191	147	147	6	3-M18x76
Size	Setting Gap1		Setting Gap2		Weight						
	Min	Max	Min	Max	Kg						
50X50	42	77	42	77	6.6						
65X65	55	85	55	90	8.1						
80X80	54	89	54	89	9.9						
100X100	67	108	67	108	15.7						

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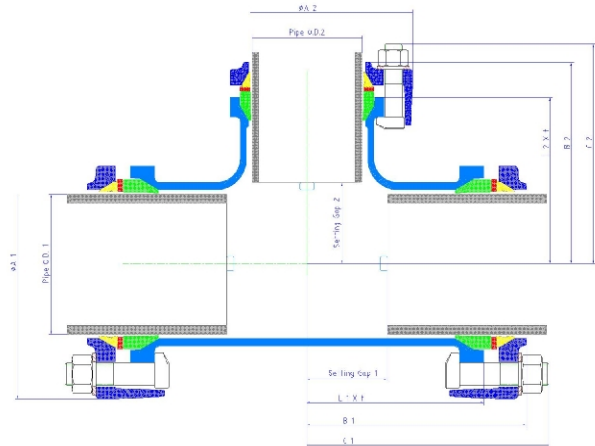
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# Bolted Mechanical fittings

## Standard series

### Reducing Tee

Plain End to Plain End



### Main Dimensions

Unit: mm

Size	Pipe O.D.1		Pipe O.D.2		Fitting Overall						Weight
	SGP-PD *	HIVP * *	SGP-PD *	IWVP * *	A1	A2	B1	B2	C1	C2	Kg
80X65	93.1	89	80.3	76	182	168	147	145	163	168	9.3
100X65	118.3	114	80.3	76	219	168	167	159	172	182	13.4
100X80	118.3	114	93.1	89	219	182	173	162	178	179	14.1
Size	Body			Setting Gap1		Setting Gap2		Bolts-Main	Bolts-Branch		
	L1	L2	t	Min	Max	Min	Max	n- M x L	n- M x L		
80X65	116	118	5	47	82	54	88	3-M18x76	3-M18x76		
100X65	128	132	6	48	89	67	102	3-M18x76	3-M18x76		
100X80	134	132	6	59	95	65	98	3-M18x76	3-M18x76		

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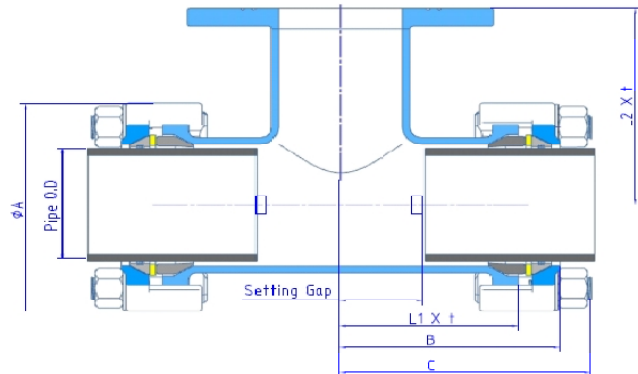
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# Bolted Mechanical fittings

## Standard series

### Flanged Tee

Plain End to Flange



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall			Body			Setting Gap		Weight
	SGP-PD *	HIVP * *	A	B	C	L1	L2	t	Min	Max	Kg
80X50F	93.1	89	182	117	132	85	150	5	41	51	8.6
80X80F	93.1	89	182	124	139	92	153	5	48	58	10.1
80X100F	93.1	89	182	141	156	109	155	5	65	75	12.3
100X50F	118.3	114	219	134	139	95	180	6	40	56	11.9
100X80F	118.3	114	219	147	152	108	181	6	53	69	14.6
100X100F	118.3	114	219	155	160	116	185	6	61	77	16.1
Size	Bolts										
	n- M x L										
80X50F	3-M18x76										
80X80F	3-M18x76										
80X100F	3-M18x76										
100X50F	3-M18x76										
100X80F	3-M18x76										
100X100F	3-M18x76										

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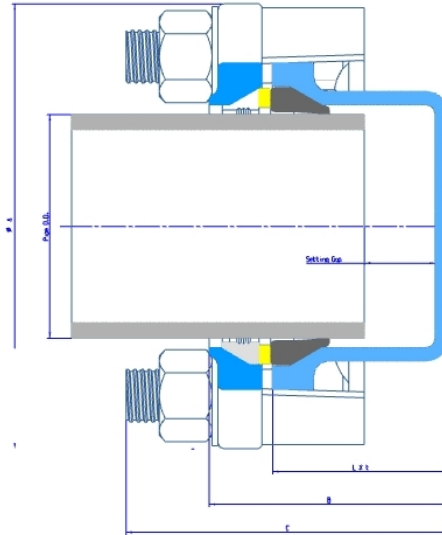
# Bolted Mechanical fittings

## Standard series

### Cap



Plain End to Pipe End



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall			Body		Setting Gap		Bolts	Weight
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
65	80.3	76	168	87	110	60	4.5	8	26	3-M18x76	2.5
80	93.1	89	182	101	117	70	5	10	31	3-M18x76	3.2
100	118.3	114	219	119	124	80	6	12	35	3-M18x76	5.0

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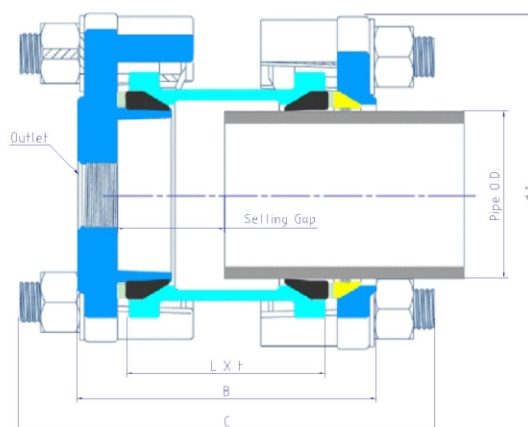
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# Bolted Mechanical fittings

## Standard 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
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max		
65	80.3	76	168	145	190	90	4.5	33	66	3-M18x76	5.3

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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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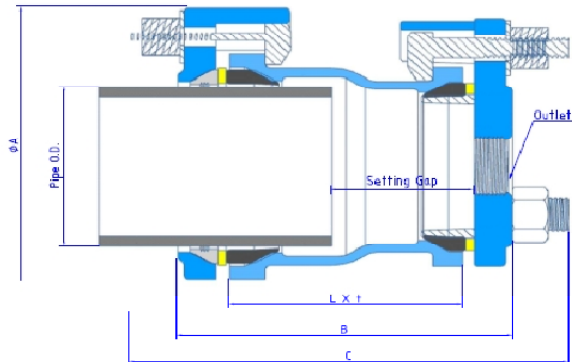
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# Bolted Mechanical fittings

## Standard series

### Outlet with Reducer

Plain End to Female Thread



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall			Body		Setting Gap		Bolts	Weight
	SGP-PD *	HIVP * *	A	B	C	L	t	Min	Max	n- M x L	Kg
80	93.1	89	182	168	207	110	5	64	84	3-M18x76	6.0
100	118.3	114	219	208	236	142	6	73	114	3-M18x76	8.2

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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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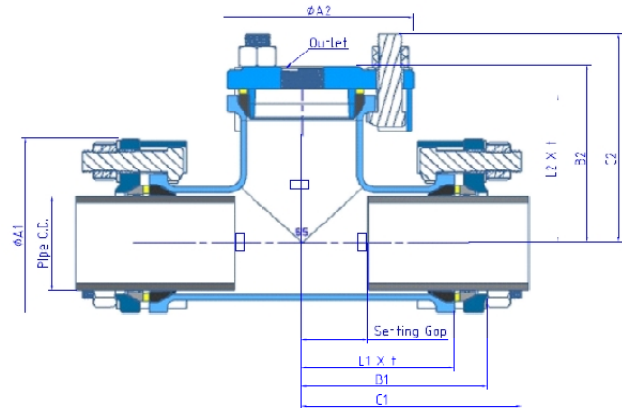
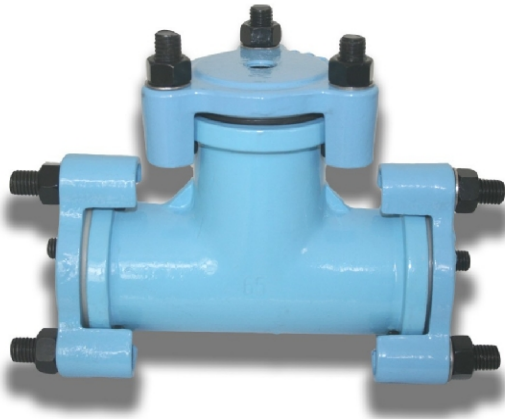
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# Bolted Mechanical fittings

## Standard series

### Outlet with Tee

Plain End to Female Thread



### Main Dimensions

Unit: mm

Size	Pipe O.D.		Fitting Overall						Body			Weight
	SGP-PD *	HIVP * *	A1	A2	B1	B2	C1	C2	L1	L2	t	Kg
65	80.3	76	168	169	142	147	165	170	115	120	4.5	9.0
80	93.1	89	182	169	147	145	163	168	116	118	5	10.2
100	118.3	114	219	169	167	159	172	182	128	132	6	14.3
Size	Setting Gap		Bolts									
	Min	Max	n	M x L								
65	55	85	3	M18x76								
80	47	82	3	M18x76								
100	48	89	3	M18x76								

\* JWWA K 132: Polyethylene powder-coated steel pipe for water supply.

\* \* 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.



Qingdao Rockpower Machinery Co., Ltd.

1506, Sino-Commerce Building, 100, Middle Hongkong Road, Qingdao, China  
[www.rockpower.cn](http://www.rockpower.cn)

Tel.: (0532) 8592-1910 8592-1920 Fax.: (0532) 8592-1252  
 e-mail: [rockson@rockpower.cn](mailto:rockson@rockpower.cn)



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