



ASIAN CORPORATION



ZOLOTO®



Intervalve India Ltd.



INSPIRING GROWTH
SRIKALAHASTHI PIPES LTD



ASTRAL®
where INNOVATION flows



IWL



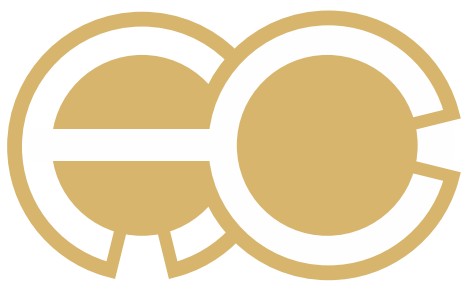
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SUPERLON®
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ZENNER Aquamet India Pvt Ltd.®
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ASIAN CORPORATION

Asian Corporation was established in 1980 to cater to the growing need of quality products in the pipes and pipe fittings segment. Since over 3 decades of establishment, Asian Corporation has grown manifolds and has a large portfolio of happy and returning customers. Our customer portfolio comprises of renowned builders, plumbing contractors, fire fighting contractors, air conditioning contractors and large number of industries that require quality pipes and pipe fittings. We have a large product portfolio comprising of quality G.I. pipes and pipe fittings, D.I pipes and pipe fittings, M.S. pipes and pipe fittings, PVC, PPR and CPVC pipes and pipe fittings, all kinds of valves, water meters, CP Bathroom fittings and other plumbing consumables. The foundation of our business stands on our prompt customer service, quality products, straight forward business ethics, and ready availability of all products. We, at Asian Corporation, put customer satisfaction as the most important goal of our business.



ZOLOTO® VALVES



1008B Forged Brass Ball Valve Art. 400 (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Forged Brass Hard Chrome Plated Ball.
- High Quality PTFE Gland Packing and Seating.
- Chrome Plated Finish.

Test Pressure (Hydrostatic) Shell : 25 kg/cm²g (350 psig) Seat : 16 kg/cm²g (225 sig) Maximum Working Temperature 220°C

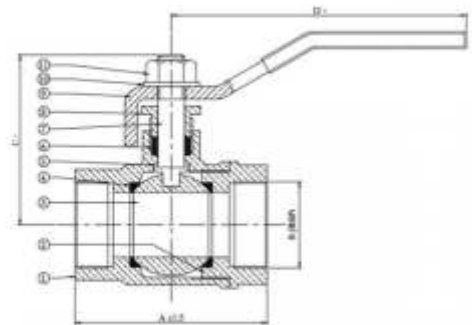
Suitable For

Water, Oil



Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Forged Brass	IS 6912 Gr. FLB	1
2	Bonnet	Forged Brass	IS 6912 Gr. FLB	1
3	Ball	Forged Brass (Hard Chrome Plated)	IS 6912 Gr. FLB	1
4	Body Seat Ring	PTFE	BS EN 12086 - 1	2
5	Thrust Washer	PTFE	BS EN 12086 - 1	1
6	Gland Packing	PTFE	BS EN 12086 - 1	-
7	Stem	Forged Brass	IS 6912 Gr. FLB	1
8	Gland	Forged Brass	IS 6912 Gr. FLB	1
9	Lever	Mild Steel	- - -	1
10	Nut	Brass (Chrome Plated)	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/4	8	47	1/4"	37	90
3/8	10	47	3/8"	37	90
1/2	15	50	1/2"	40	106
3/4	20	58	3/4"	43	132
1	25	67	1"	51	132
1 1/4	32	76	1 1/4"	65	166
1 1/2	40	87	1 1/2"	72	180
2	50	104	2"	80	216
2 1/2	65	139	2 1/2"	102	216
3	80	155	3"	110	280
4	100	177	4"	124	280



ZOLOTO® VALVES



1009 Bronze Vertical Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design, Integral Seat.
- Meant for Vertical Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Spring Loaded and 'O' Ring Type.
- Also available with metal to metal seating.

Test Pressure (Hydrostatic) Shell : 25 kg/cm²g (350 psig) Seat : 16 kg/cm²g (225 psig) Maximum Working Temperature 80°C

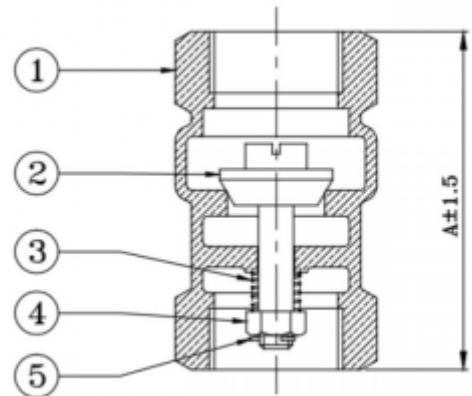
Suitable For

Water, Oil



Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	'O' Ring	Nitrile Rubber	IS 5192 - 1	1
4	Spring	Stainless Steel	Type 304	1
5	Disc Nut	Brass	IS 319 Gr. 2 (Half Hard)	1
6	Split Pin	Brass	---	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	55	1/2"
3/4	20	66	3/4"
1	25	76	1"
1 1/4	32	80	1 1/4"
1 1/2	40	85	1 1/2"
2	50	93	2"
2 1/2	65	114	2 1/2"
3	80	118	3"
4	100	141	4"



ZOLOTO[®] VALVES



1010 Bronze Horizontal Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat, meant for Horizontal Lines only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.
- Also available with metal to metal seating.

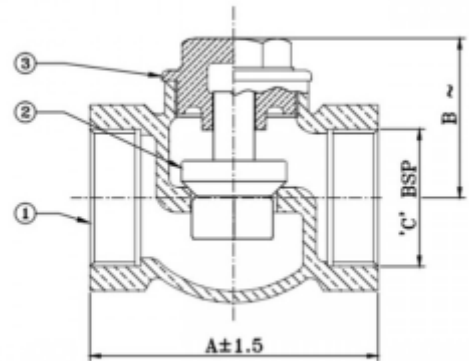
Test Pressure (Hydrostatic) Shell : 20 kg/cm²g (285 psig) Seat : 13.5 kg/cm²g (192 psig) Maximum Working Temperature 80°C

Suitable For
Water, Oil



Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze	IS 318 Gr. LTB 2	1
4	'O' Ring	Nitrile Rubber	IS 5192 - 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/4	8	33	24	1/4"
3/8	10	37	28	3/8"
1/2	15	45	32	1/2"
3/4	20	53	37	3/4"
1	25	57	41	1"
1 1/4	32	71	46	1 1/4"
1 1/2	40	79	52	1 1/2"
2	50	86	66	2"
2 1/2	65	107	80	2 1/2"
3	80	123	94	3"
4	100	159	104	4"



ZOLOTO® VALVES



1035 Bronze Gate Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Provided with unbreakable sheet metal handwheel for easy operation.
- High Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Provision for re-packing under pressure.

Test Pressure (Hydrostatic) Shell : 1.5 MPa Seat & Back Seat : 1.0 MPa Maximum Working Temperature 225°C

Suitable For

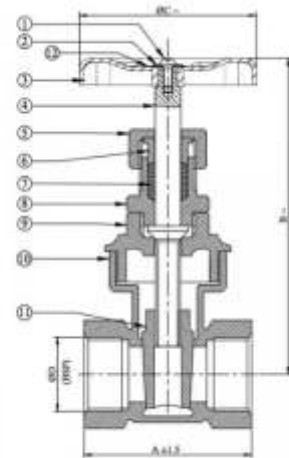
Water, Oil

Also available with Open-Shut Indicator and Locking Device, at a nominal extra price.



Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	IS 1367	1
2	Washer	Carbon Steel (Zinc Plated)	---	1
3	Handwheel	Sheet Metal (Power Coated Paint)/ Cast Iron	--- / IS 210 Gr. FG 200	1
4	Stem	Forged Brass	IS 6912 Gr. FLB	1
5	Gland Nut	Forged Brass	IS 6912 Gr. FLB	1
6	Gland	Forged Brass	IS 6912 Gr. FLB	1
7	Gland Packing	PTFE	BSEN 12086 - 1	-
8	Stuffing Box	Forged Brass	IS 6912 Gr. FLB	1
9	Bonnet	Forged Brass	IS 6912 Gr. FLB	1
10	Body	Bronze	IS 318 Gr. LTB 2	1
11	Wedge	Bronze	IS 318 Gr. LTB 2	1
12	Name Plate	Aluminium	---	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4	8	50	84	50	1/4"
3/8	10	50	89	50	3/8"
1/2	15	60	105	55	1/2"
3/4	20	60	117	60	3/4"
1	25	70	132	70	1"
1 1/4	32	80	140	80	1 1/4"
1 1/2	40	90	172	90	1 1/2"
2	50	100	190	100	2"
2 1/2	65	105	214	115	2 1/2"
3	80	125	268	125	3"
4	100	160	323	160	4"



ZOLOTO® VALVES



1040A Bronze Compact Pressure Reducing Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Easy to Install.
- No Diaphragm, Piston Type, provided with High Quality Nitrile Rubber 'O'Rings.
- With a provision of installation of a pressure gauge is provided.

Test Pressure (Hydrostatic) Shell 35 bar Maximum Upstream Pressure 25 bar Maximum Working Temperature 80°C

NOTE : At maximum inlet pressure 25 bar, the minimum outlet pressure will be 5.5 bar.

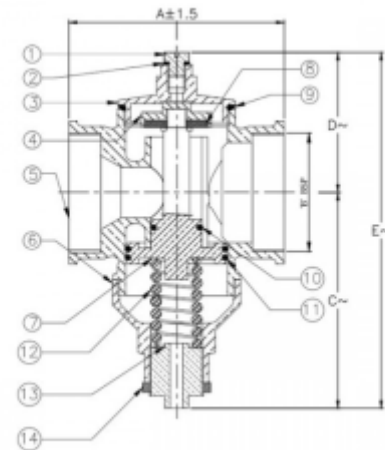
Suitable For

Water



Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Brass	IS 6912 Gr. FLB	1
2	O - Ring	Nitrile Rubber	IS 5192 - 1	1
3	Bonnet	Bronze	IS 318 LTB 2	1
4	Gasket	Nitrile Rubber	IS 5192 - 1	1
5	Disc Holder	Bronze	IS 318 LTB 2	1
6	Disc Facing	Nitrile Rubber	IS 5192 - 1	1
7	Piston	Bronze	IS 318 LTB 2	1
8	Body	Bronze	IS 318 LTB 2	1
9	O - Ring	Nitrile Rubber	IS 5192 - 1	1
10	O - Ring	Nitrile Rubber	IS 5192 - 1	1
11	Spring	Stainless Steel	EN 47 Gr. B	1
12	Chamber	Bronze	IS 318 LTB 2	1
13	Adjustable Ring	Bronze	IS 318 LTB 2	1
14	Locking Screw	Bronze	IS 318 LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
2 1/2	65	135	2 1/2"	130	87
3	80	160	3"	150	101
4	100	160	4"	162	115



ZOLOTO® VALVES



1040B Forged Brass Compact Pressure Reducing Valve (Screwed)

Salient Features

- Most ideal for sensitive and a consistent fluid regulation.
- Piston-operated, hence more reliable than conventional diaphragm type PRV.
- Rugged body, compact-sized, easy to install, requiring low maintenance and virtually noiseless.
- Most of the critical working components have a distinct edge of being hot brass forged.
- Facility provided to install a Pressure Gauge of 1/4" B.S.P size to gauge the critically relevant Outlet Pressure.
- Designed to suit every application requiring accurate pressure ratings.
- No external source of energy required.
- All 'O' rings are of superior food grade material, hence ensuring absolute zero health hazard.



Test Pressure (Hydrostatic) Shell : 35 bar, Maximum Upstream Pressure 25 bar
Maximum Working Temperature 80 °C

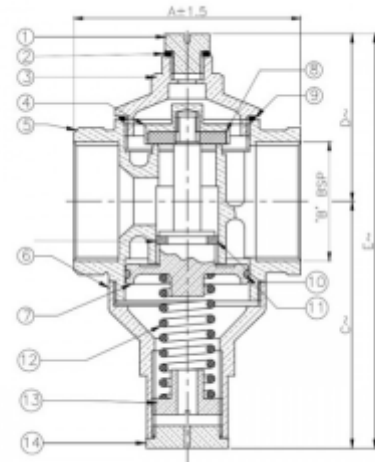
NOTE : At maximum inlet pressure 25 bar, the minimum outlet pressure will be 5.5 bar.

Suitable For

Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Brass	IS 6912 Gr. FLB	1
2	O - Ring	Nitrile Rubber	IS 5192 - 1	1
3	Bonnet	Forged Brass	IS 6912 Gr. FLB	1
4	Gasket	Nitrile Rubber	IS 5192 - 1	1
5	Disc Holder	Forged Brass	IS 6912 Gr. FLB	1
6	Disc Facing	Nitrile Rubber	IS 5192 - 1	1
7	Piston	Brass / Bronze	IS 6912 Gr. FLB / IS 318 LTB 2	1
8	Body	Forged Brass	IS 6912 Gr. FLB	1
9	O - Ring	Nitrile Rubber	IS 5192 - 1	1
10	O - Ring	Nitrile Rubber	IS 5192 - 1	1
11	Spring	Stainless Steel	EN 47 Gr. B	1
12	Chamber	Forged Brass	IS 6912 Gr. FLB	1
13	Adjustable Ring	Forged Brass	IS 6912 Gr. FLB	1
14	CAP	PVC	IS 5225	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2	15	62	1/2"	68	44
3/4	20	62	3/4"	68	44
1	25	86	1"	93	61
1 1/4	32	91	1 1/4"	99	65
1 1/2	40	91	1 1/2"	99	65
2	50	91	2"	101	71



ZOLOTO® VALVES



1078 Butterfly Valve (Wafer Type) with SG Iron Disc

Salient Features

- Design Standard IS 13095 / BSEN 593.
- Wafer Type.
- Lever Operated.
- Compatible to be inserted between flanges as per BS 10 Table D, E, F,H, DIN, PN10, PN16, PN25, PN40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

PN10 – Maximum Working Temperature : 90°C Maximum Working Pressure : 10 bar Shell Test Pressure (Hydrostatic) : 15 bar Seat Test Pressure (Hydraulic) : 11 bar

PN16 – Maximum Working Temperature : 90°C Maximum Working Pressure : 16 bar Shell Test Pressure (Hydrostatic) : 24 bar Seat Test Pressure (Hydraulic) : 17.6 bar

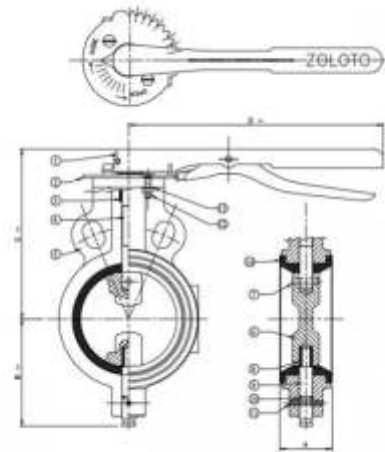
Suitable For

Water



Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Flow Control Lever	Carbon Steel (Power Coated Paint)	---	1
2	Notch Plate	Carbon Steel (Power Coated Paint)	---	1
3	Packing Bush	PTFE / Bronze	BSEN 12086-1 / IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	ASTM A 276 Type 410	1
5	Body	S.G. Iron	ASTM A 536 / IS 1865	1
6	Disc	S.G. Iron	ASTM A 536 / IS 1865	1
7	Name Plate	Aluminium	---	1
8	Bush	PTFE / Bronze	BSEN 12086 / IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	ASTM A 276 Type 410	1
10	'O' Ring	Nitrile Rubber	IS 5192 - 1	1
11	Dowel Pin	Spring Steel	---	1
12	C - Sunk Screw & Nuts	Carbon Steel	---	2 Each
13	Locking Washer	Spring Steel	---	2
14	Body Lining	EPDM / Nitrile	IS 5192 - 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	E ~
1 1/2	40	35	38.5	57	113	260
2	50	41.5	50	73	125	260
2 1/2	65	44	64.5	80	140	260
3	80	44.5	79	88	145	260
4	100	50	99	110	178	260
5	125	53	124.5	122	190	260
6	150	54.5	148.7	151	204	260



ZOLOTO® VALVES



1079A Cast Iron Sluice Valve PN-1.0 (Flanged)

Salient Features

- Design Standard IS 14846 PN-1.0
- Flanged Ends, Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Handwheel Operated.
- Flange Ends as per IS 1538.

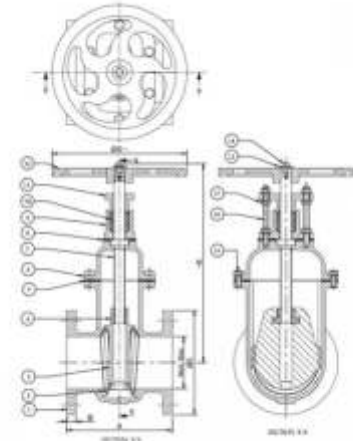
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa Seat : 1.0 MPa

Suitable For
Water



Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IS 210 Gr. FG 200	1
2	Seat Ring	Bronze	IS 318 Gr. LTB2	4
3	Wedge	Cast Iron	IS 210 Gr. FG 200	1
4	Stem Bush	Bronze	IS 318 Gr. LTB2	1
5	Gasket	Rubber	IS 638 Type B	1
6	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
7	Stem	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
8	Gasket	Rubber	IS 638 Type B	1
9	Stuffing Box	Cast Iron	IS 210 Gr. FG 200	1
10	Gland Packing	Hemp & Jute	IS 5414	-
11	Gland Flange	Cast Iron	IS 210 Gr. FG 200	1
12	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
13	Washer	Carbon Steel	- - -	1
14	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	1
15	Bolt & Nut	Carbon Steel	IS 1363 Part 1 Class 4.6 IS 1363 Part 3 Class 4.0	To Suit
16	Stud / Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	2
17	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit



Sizes / Dimensions

Size (Inches)	Size (mm)	A	B	ØC ~	ØD ~	E ~
2	50	178 ±2	16	165	225	336
2 1/2	65	190 ±2	16	185	225	355
3	80	203 ±2	21 ±3	200	225	390
4	100	229 ±2	22 ±3	220	320	440
5	125	254 ±2	22.5 ±3	250	320	485
6	150	267 ±2	23 ±3	285	320	560
8	200	292 ±2	24.5 ±3	340	360	690
10	250	330 ±2	26 ±3	395	400	795
12	300	356 ±2	27.5 ±3	445	400	867
14 ¹	350 ¹	381 ±3	29 ±3	505	500	942
16 ¹	400 ¹	406 ±3	30 ±3	565	640	1110
18 ¹	450 ¹	432 ±3	31.5 ±3	615	720	1175
24 ¹	600 ¹	508 ±3	36 ±3	780	720	1480

¹ IS Certification for these sizes is currently under process.

NOTE : Valve is also available with Brass Spindle at a nominal extra cost.



ZOLOTO® VALVES



1082 Cast Iron Dual Plate Wafer Type Check Valve

Salient Features

- Design standard API 594.
- Wafer Type Design, thus taking lesser space than the conventional Check Valve.
- Being light in weight, is more rigid than the standard Swing Type Check Valve, which otherwise needs expensive foundation and special supports.
- Being cylindrical in body, stresses are uniformly distributed.
- Can be installed in Vertical pipe lines only.
- Much longer seat life because of Bronze / S.S to Rubber contact.
- Low wear and tear of seat surfaces.
- End connections are designed to suit flanges drilled to ANSI B Class-125.



Test Pressure (Hydrostatic) Shell : 24,50 kg/cm²g (350 psig) Seat : 16 kg/cm²g (230 psig)
Working Temperature : -18°C to 80°C

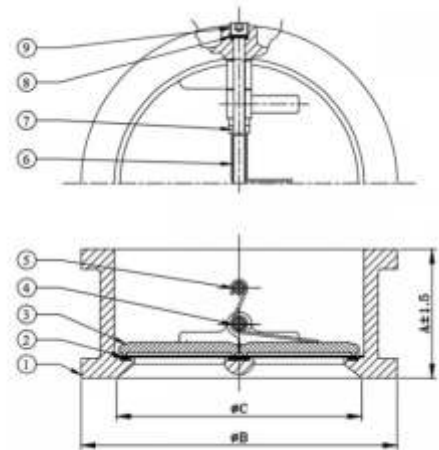
Suitable For

Water

Materials

P.No.	Part Name	Material	Specification	Qty.
1	Body	Cast Iron	IS 210 Gr. FG 200	1
2	Body Lining	Nitrile Rubber	IS 5192 - 1	1
3	Flap	Bronze/Stainless Steel*	IS 318 Gr. LTB2 / ASTM A 351 Gr. CF8/CF8M	2
4	Hinge Pin	Stainless Steel	ASTM A 276 Type 304	1
5	Stop Pin	Stainless Steel	ASTM A 276 Type 304	1
6	Spring	Stainless Steel	Type 304	-
7	Packing Washer	Stainless Steel/PTFE	ASTM A 276 Type 304 / - - -	-
8	Packing Washer	Nitrile Rubber / PTFE	IS : 5192-1/ - - -	-
9	Retainer Plug	Carbon Steel	- - -	2/4

* Stainless Steel Flap available only upto 150mm



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	ØC
1 1/2	40	50	92	56
2	50	54	101	60
2 1/2	65	60	120	73
3	80	67	133	89
4	100	67	171	114
5	125	83	193	141
6	150	95	218	168
8	200	127	276	219
10	250	140	336	273.5
12	300	181	406	324
14	350	184	451	357



ZOLOTO® VALVES



1083A Cast Iron Non Return Valve PN - 1.6 (Flanged)

Salient Features

- Design Standard IS 5312 - 1 .
- Flanged Ends to IS 1538.
- Swing Type Seating.
- Bolted Cover.
- Renewable Seat with Rubber Flap.

PN1.6 - Shell Test Pressure (Hydrostatic) 2.4 MPa Seat Test Pressure (Hydrostatic) 1.6 MPa
Maximum Working Temperature 80°C

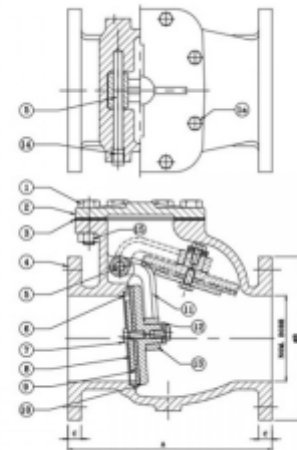
Suitable For

Water



Materials

P.No.	Name of Part	Material of Material	Specification	Qty.
1	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	To Suit
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	ASTM A 276 Type 410	1
6	Body Seat Ring	Bronze / Stainless Steel	IS 318 Gr. LTB 2 / ASTM A 276 Type 410	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	---	1
9	Disc Facing	Rubber	IS 638 Type B	1
10	Disc	Cast Iron	IS 210 Gr. FG 200	1
11	Hinge	Cast Iron	IS 210 Gr. FG 200	1
12	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	---	1
14	Plug	Carbon Steel	---	1
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C
2	50	203 ±2	165	16
2 1/2	65	216 ±2	185	16
3	80	241 ±2	200	21 ±3
4	100	292 ±2	220	22 ±3
5	125	330 ±2	250	22.5 ±3
6	150	356 ±2	285	23 ±3
8	200	495 ±3	340	24.5 ±3
10	250	622 ±3	395	26 ±3
12	300	698 ±3	445	27.5 ±3



ZOLOTO[®] VALVES



1084 Cast Iron Y-Type Strainer with S.S-304 Perforated Screen (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (SS 304) (Ø3mm Perforation) is guided in Body and Cover.
- Large screening area makes the strainer efficient in performance.
- Minimum pressure drop inside the body due to streamlined body contours.

Test Pressure (Hydrostatic) Shell : 20 kg/cm²g (300 psig) Maximum Working Pressure 10.55 kg/cm²g (150 psig) Maximum Working Temperature 220°C

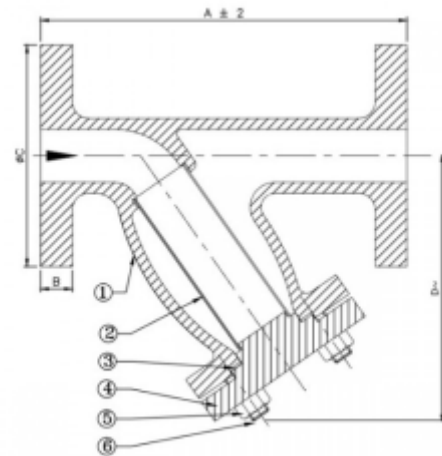
Suitable For

Water



Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IS 210 Gr. FG 200	1
2	Screen	Stainless Steel	Type 304	1
3	Gasket	Rubber	IS 638 Type B	1
4	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
5	Nuts	Carbon Steel	IS 1367	-
6	Studs	Carbon Steel	IS 1367	-



Sizes / Dimensions

Size (Inches)	Size (mm)	A ± 2	B	C	D
1 1/2	40	165	16 ± 1.5	140	152
2	50	180	19 ± 1.7	165	175
2 1/2	65	206	19 ± 1.7	184.5	180
3	80	260	19 ± 1.7	203.2	238
4	100	295	22.2 ± 1.8	228.6	250
5	125	422	25.4 ± 2	279.4	320
6	150	385	25.4 ± 2	305	320
8	200	525	28.6 ± 2	368.3	395
10	250	700	28.6 ± 2	431.8	515
12	300	750	31.8 ± 2.3	489	570
14	350	850	35 ± 2.5	552.5	620



ZOLOTO® VALVES



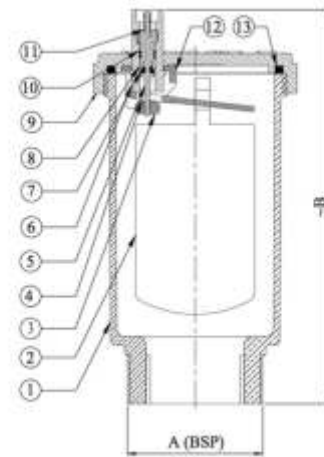
1095 Forged Brass Air Release Valve (Screwed)

Salient Features

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Brass	IS 6912 Gr. FLB (Chrome Plated)	1
2	Float	Polypropylene	---	4
3	Lock	Polypropylene	---	1
4	Hing	Polypropylene	---	1
5	Seat	Forged Brass	IS 6912 Gr. FLB	1
6	Chamber	Forged Brass	IS 6912 Gr. FLB	1
7	Ring	Nitrile Rubber	IS 5192 - 1	1
8	Valve	Brass	IS 319 Gr. 2	1
9	Cover	Forged Brass	IS 6912 Gr. FLB	1
10	Ring	Nitrile Rubber	IS 5192 - 1	1
11	Spring	Stainless Steel	Type 304	-
12	Bracket	Polypropylene	---	1
13	'O' Ring	Nitrile Rubber	IS 5192 - 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	B ~
1/2	15	1/2"	75
3/4	20	3/4"	95
1	25	1"	97





INTERVALVE® POONAWALLA LTD.



IVGKL – Superior performance at reduced cost

Rubber Lined Butterfly Valves for HVAC & Utilities



Intervalve's GKL series valves are designed to meet the demanding requirements of the general utility valve market with the HVAC segment in particular. IVGKL is a truly fit & forget valve, which requires minimal maintenance.

The body liner which also functions as the soft seat, comes in an integrally moulded (bonded) version and offers 100% bi-directional sealing against vacuum to rated pressures of PN10. The wafer style body has universal design to fit between pipe flanges of almost all popular flange standards.

Conformity to codes and standards:

General design and manufacturing	:	API 609 category A/BS 5155/MSS SP-67
Valve face to face dimensions	:	Short wafer as per ISO 5752 Tab 5/API 609 category A
Top flange drilling	:	ISO 5211 part II
Valve inspection and testing	:	API 598
Flange standard conformity	:	ANSI 150 , DIN PN6/10, JIS 5K/ 10K BS10 Tab D & E, IS 6392 NP 0.6 / 1.0

Technical specifications:

1. Valve type	:	Centric Disc Butterfly valve with a single piece Rubber lined body
2. Body type	:	Short wafer (sandwiched between flanges)
3. Seat type	:	Integrally moulded with the body.
4. End Connection	:	Wafer Sandwiched
5. Size range	:	40 NB to 300 NB
6. Pressure rating	:	PN 10 (max)
7. Operating temperature range	:	-25 C to 130 C (depending on MOC)
8. Seat leakage	:	Tight shut off
9. Operation	:	Hand lever for sizes from 40 NB to 250 NB Worm gear boxes for 40 NB to 300 NB.
10. Standard Material of Construction (MOC)	:	
Body	:	CI
Disc	:	SGI
Seat	:	Nitrile
Shaft	:	AISI 410



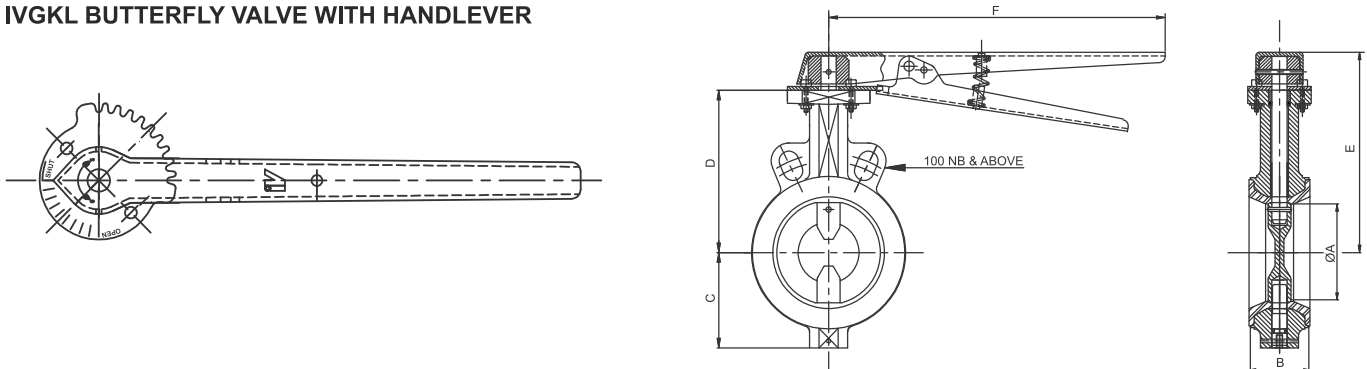
INTERVALVE® POONAWALLA LTD.



DIMENSIONS (in mm) with Pressed Steel Handlever

Valve size	A	B	C	D	E	F	WT.(kg)
40	40	33	53	103	133	265	1.8
50	50	43	59	113	143	265	2.2
65	65	46	67	121	151	265	2.7
80	80	46	75	128	158	265	3.3
100	100	52	94	146	176	265	5.0
125	125	56	108	158	188	265	6.5
150	150	56	120	174	206	375	8.0
200	200	60	147	198	230	375	11.0

IVGKL BUTTERFLY VALVE WITH HANDLEVER



Key features :

- ❑ Integrally moulded seat liner on the body, which ensures excellent dimensional stability & guaranteed seat tightness.
- ❑ Seat liner extending on to the contact faces ensures perfect sealing and eliminates the need for separate flange gaskets.
- ❑ Unique triple sealing system for shaft sealing ensures zero leakage of the media past the shaft seals.
- ❑ Narrow land disc ensures perfect sealing with least operating torque requirements.
- ❑ A fully universal body design ensures fitment of the valve between companion flanges of all popular standards (viz: ANSI, BS, DIN, JIS, IS etc)
- ❑ A ten position notch disc and handlever ensures locking of the valve in 8 intermediate position in addition to closed and open position. Handlever lockable through pad lock for tamper proof positioning.
- ❑ Body castings made of superior FG 260 grade cast iron to ensure additional strength.
- ❑ Valve disc made of ductile cast iron instead of cast iron to withstand against possible water hammer or pressure surges.
- ❑ A truly line size body bore to ensure maximum flow capacity with the lowest pressure drop.
- ❑ Shafts made of martensitic stainless steel to ensure maximum strength and torsional rigidity.
- ❑ Both top and bottom shaft swiveling are guided by self – lubricated PTFE bearings.
- ❑ Fool proof handlever designed to prevent accidental pinching of hand between the handle and locking lever.



INTERVALVE® POONAWALLA LTD.



IVGK

General Purpose Rubber Lined Butterfly Valve



A real workhorse from the IV stables, IVGR model Butterfly valve incorporates the optimum design features to provide long trouble free service in the field. This general purpose soft seated Butterfly valve has a fully rubber lined single piece body with centric disc construction and is available in wafer type body pattern.

The body liner which also functions as the soft seat, comes in either a replaceable version or an integrally moulded (bonded) version and offers 100 % bi-directional sealing against vacuum to rated pressure of PN 16.

The wafer style body has universal design to fit between pipe flanges of almost all popular flange standards.

Conformity to codes and standards :

General design and manufacturing	:	API 609 category A/BS 5155/MSS SP-67
Valve face to face dimensions	:	Short wafer as per ISO 5752 Tab 5 & API 609 category A
Top flange drilling	:	ISO 5211 part II
Valve inspection and testing	:	API 598
Flange standard conformity	:	ANSI 150, DIN PN6 / PN10 / PN16, JIS 5K / 10K / 16K BS 10 Tab D & E, IS 6392 NP 0.6 / 1.0 / 1.6 For sizes \geq 650 ANSI B 16.47 Class 150 Series A / BS 3293 Class 150 and Series B / API605

Technical specifications:

1. Valve type	:	Centric Disc Design Butterfly valve with a single piece Rubber lined body.
2. Body type	:	Short wafer (IVGKL)
3. Seat type	:	Replaceable for sizes 50 NB to 600 NB \leq PN 10 rating. Bonded seat for sizes 40 to 1200 NB for all applicable ratings.
4. End connection	:	Wafer sandwiched
5. Size range	:	40 NB to 1200 NB
6. Pressure rating	:	40 NB to 600 NB-PN16 (max). 650 NB to 1200 NB-PN10 (max).
7. Operating temperature	:	-50° C to 200° C (depending on MOC) range
8. Seat leakage	:	Tight shut off
9. Operation	:	Handlever for sizes from 40 NB to 250 NB Worm gear boxes for sizes from 40 NB to 1200 NB Pneumatic / Electric actuator operation-optional
10. Standard Material of Construction (MOC)	:	
Body	:	CI / SGI / WCB / CF8 / CF8M
Disc	:	SGI / WCB / CF8 / CF8M
Seat	:	EPDM / Viton / Nitrile / Neoprene / Hypalon / Silicon
Shaft	:	AISI 410 / SS 316 SH



INTERVALVE® POONAWALLA LTD.



DIMENSIONS (in mm.) for PN10 & PN16 with Worm Gear

Valve size	A	B	C	D	E	F	G	H	WT. (kg)
40	40	33	68	103	230	195	175	127	8.6
50	50	43	73	113	240	195	175	127	9.6
65	65	46	80	121	248	195	175	127	10.0
80	80	46	88	128	255	195	175	127	10.6
100	100	52	104	146	273	195	175	127	12.1
125	125	56	116	158	285	195	175	127	13.6
150	150	56	138	174	340	242	250	182	18.5
200	200	60	163	198	365	242	250	182	22.0
250	250	68	203	245	410	242	250	182	31.5
300	300	78	228	270	486	285	350	252	42.0
350	336	78	265	312	528	285	350	252	51.0
400	386	102	305	360	705	320	600	388	82.5

DIMENSIONS (in mm.) with pressed Steel Handler

Valve size	A	B	C	D	E	F	WT. (kg)
40	40	33	68	103	150	195	4.0
50	50	43	73	113	160	195	4.5
65	65	46	80	121	170	195	5.0
80	80	46	88	128	175	195	5.5
100	100	52	104	146	195	250	7.0
125	125	56	116	158	205	250	8.5
150	150	56	138	174	230	300	12.0

DIMENSIONS (in mm.) with Cast Handler

Valve size	A	B	C	D	E	F	WT. (kg)
200	200	60	163	198	255	500	16.0
* 250	250	68	203	245	300	500	26.0

* Valve Rating up to PN6 only.

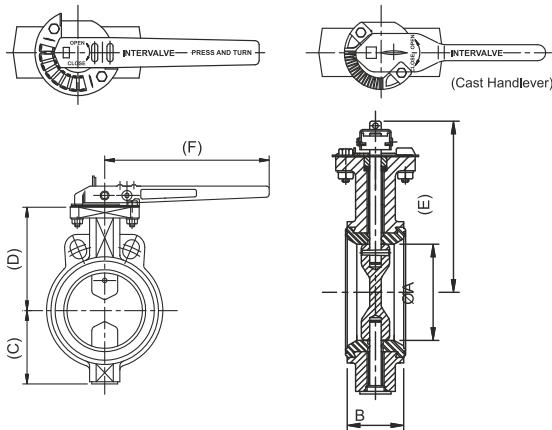
DIMENSIONS (in mm.) for PN10 with Worm Gear

Valve size	A	B	C	D	E	F	G	H	WT (kg)
450	436	114	330	390	735	320	600	388	93.5
500	486	127	355	410	755	320	600	388	115.5
600	586	154	435	490	810	395	500	445	177.0

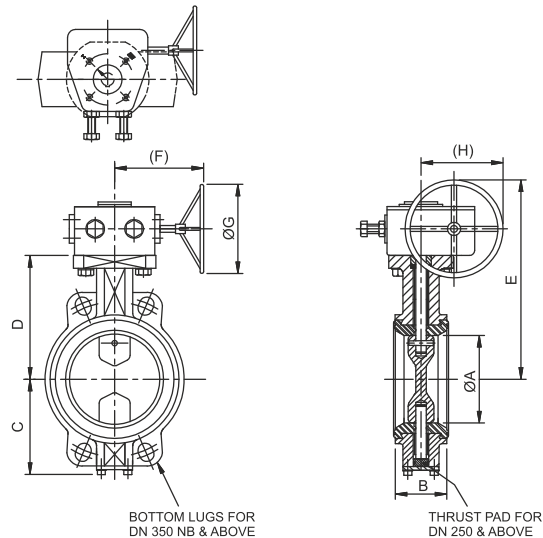
DIMENSIONS (in mm.) for PN16 with Worm Gear

Valve size	A	B	C	D	E	F	G	H	WT (kg)
450	436	114	330	390	765	320	600	432	117.0
500	486	127	355	410	730	395	500	445	139.0
600	586	154	435	490	825	420	500	500	231.0

IVGK Butterfly Valve with Handler



IVGK Butterfly Valve with Worm Gear



Key features :

- ❑ Unique triple sealing system for shaft sealing, eliminates any fugitive emission or secondary leakage.
- ❑ Self lubricated PTFE lined bearings for both drive end and non-drive end shaft ensures minimum bearing friction torque.
- ❑ Seat liner extending on to the flange contact faces, eliminates the need for separate flange gaskets during installation.
- ❑ Controlled compression of the gasket face to offer optimum sealing & prevent gasket face crushing failure.
- ❑ Bi-directional valve with tight shut off sealing capability to hold vacuum to rated pressure in either direction.
- ❑ Excellent adaptability for actuated operation through standardised top flange mounting dimensions for actuator fitment.
- ❑ Suitability for ON /OFF as well as throttling duties.
- ❑ Choice of seat and disc materials to suit media conditions and service requirements.
- ❑ Adaptability to fit between companion flanges of all popular flange standards for the wafer style body.
- ❑ Possibility of lower seat rating to obtain reduced operating torque and extended seat life for low operating pressures.



INTERVALVE® POONAWALLA LTD.



IVC, IVCT

Wafer Type Swing Check Valve



Intervalve check valve models IVC and IVCT are primarily single plate swing check valve with a short pattern wafer body conforming to the API 6D and ANSI B16.10 face to face dimensions. The valve has a simple but robust construction with reliability. The low inertia disc design enables the valve to open or close with a very low differential pressure which make them ideal for services operating under low differential pressures. The pressure drop across the valve in fully open condition is relatively low and makes them ideal for pump discharge duties. The eccentric disc shaft in combination with the disc seat guarantees a positive shut off of the returning media.

The short face to face dimensions and low weight allows a simple space saving installation between the mating companion flanges. The

valves are suitable for mounting between weld neck or slip on type companion flanges of different standards. The need for flange gaskets during installation is totally eliminated in the case of IVC model due to the in-built face sealing 'O' rings provided on the sealing face. Gaskets are recommended while installing IVCT model valves.

Conformity to codes and standards :

Valve testing	:	API 598 / ANSI B 16
Design & face to face dimensions	:	API 6D / ANSI B 16
Flange standard conformity	:	ANSI 150, DIN PN 10 & PN 16, BS 10 Table D & E

Technical specifications :

1. Valve type	:	Self acting non-return valve.
2. Description	:	Single plate wafer type swing check valve.
3. Body type	:	Short pattern wafer type
4. Disc type	:	With integral hinge pin
5. Model nomenclature	:	IVC-check valve with rubber O-ring seat and face sealing IVCT-check valve with PTFE seat and serrated contact faces
6. Size range	:	25 NB to 600 NB
7. Pressure rating	:	PN 16 (max)
8. Operating temperature range	:	-50° C to 200° C (depending on MOC)
9. Seat leakage	:	Zero leak / tight shut off
10. Standard Material of Construction (MOC)	:	
Body	:	SGI /WCB/ CF8/ CF8M/CS-IS 2062
Disc	:	SGI /WCB/CF8/CF8M
Seat	:	EPDM / Viton/ Nitrile/ Neoprene / Hypalon – for IVC PTFE or GFT –for IVCT

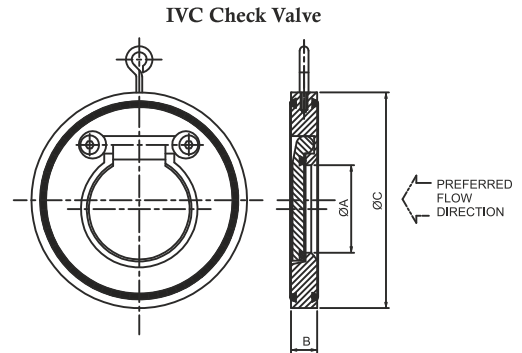


INTERVALVE® POONAWALLA LTD.



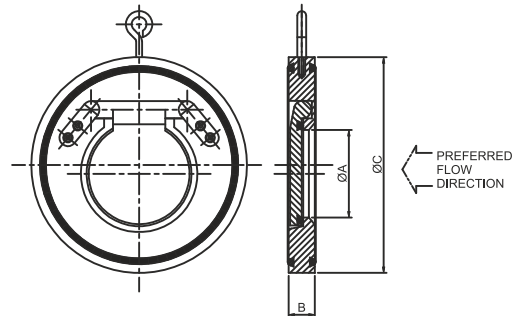
DIMENSIONS (in mm.)

Valve size	A	B	C				
			PN 10	PN 16	BS10D	BS10E	ANSI#150
25	14	16	72	72	69	69	64
40	22	19	93	93	86	86	86
50	30	19	108	108	97	97	104
65	40	19	128	128	110	110	123
80	52	19	143	143	129	129	136
100	71	19	163	163	161	161	174
125	93	19	193	193	193	193	196
150	114	19	219	219	218	215	221



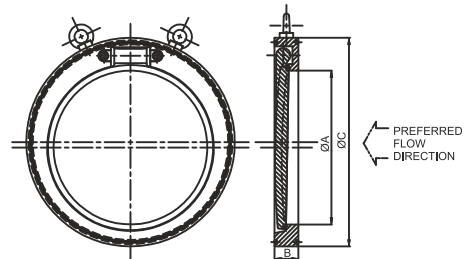
DIMENSIONS (in mm.)

Valve size	A	B	C				
			PN 10	PN 16	BS10D	BS10E	ANSI#150
200	157	28.5	274	274	274	272	278
250	195	28.5	329	329	335	335	339
300	230	38.0	379	385	385	383	409
350	270	44.5	438	444	446	446	449
400	310	51.0	489	496	496	496	512
450	360	60.5	538	555	559	559	545
500	406	63.5	593	616	616	616	605
600	490	70.0	695	733	727	724	714



DIMENSIONS (in mm.)

VALVE SIZE	ØA	B	ØC			
			PN10	PN16	BS3293	API 605 / ANSI B16.47 S.B.
650	530	80	-	-	774	722
700	570	89	811	802	832	773
800	652	102	918	912	940	878
900	715	127	1017	1011	1047	984



Key features :

- ❑ Very low face to face dimensions hence space required for mounting is less than 10% of that conventional valves.
- ❑ Very low weight-total weight is only approximately 1/6 the weight of a conventional check valve.
- ❑ Short wafer body enables mounting the valve with shorter length fasteners of lesser number compared to flanged swing check valve. Approximately 50% saving in cost of fasteners.
- ❑ Considerable secondary advantages resulting in substantial savings in handling, packing, transportation, installation and maintenance.
- ❑ Saving in terms of overall length required for piping.
- ❑ Tightening torque to be applied on the companion flange bolting is lower due to face sealing O-rings.
- ❑ Practically maintenance free due to fewer number of parts and simple construction.
- ❑ Self centering in pipeline due to controlled outside diameter, enables easy installation.


INTERVAL® POONAWALLA LTD.

INTERVAL IV DPCV

Dual Plate Check Valve



The IV DPCV is spring loaded Dual Plate check valve uniquely designed for all applications. The constructional feature makes the valve much smaller in size, lighter in weight & makes it more reliable in operation as compare to conventional swing check valve.

IV DPCV valve employs dual spring loaded plate/disc hinged on central hinge pin. It operates on the differential pressure between fluid flow pressure and spring torsion pressure. As the flow pressure reduces, the plates tend to close with a cushion effect by spring torsion force thereby restricting the reversal of fluid flow.

Salient Features:

- The product designs are in accordance to ASME B16.34/API594 with reliable sealing and sturdy construction to ensure excellent performance.
- The constructional feature reflects on the compactness of the valve by smaller volume, shorter length & even lighter weight.
- Suitable for horizontal and vertical pipe lines.
- These valves can be provided with soft and metal seat.
- Various connections such as wafer/wafer lugged/double flange.
- Long life and trouble free operation.

Conformity to codes and standards:

Design	:	ASME B16.34/API594
Pr. & temp rating	:	ASME B16.34
Face to face & end to end dimension	:	API 594
Ends	:	Wafer Design
Test & Inspection	:	API 598/EN12266 Part 1



ASTRAL CPVC PRO

Advanced Hot & Cold Water Plumbing System

- First to introduce CPVC Technology in India
- First to get NSF certification
- Fire and Chemical Resistance
- Corrosion Resistance
- Lower Bacterial Growth
- Low Thermal Expansion
- Hot Water Compatible
- Easy Plumbing Process
- Unaffected by Chlorine
- No Toxicity, Odour & Tastes
- Tough Rigid Material
- Low Friction Loss
- Maintenance Free
- International Appearance



ASTRAL AQUARIUS

Lead Free UPVC Solvent Weld Plumbing System

- Strong and Light Weight
- Easy to Install
- Durable
- Cost-Effective
- Environmental Impact
- Good Insulator
- Versatile



Astral Ultradrain

Conventional Drainage System

- Stronger, resilient & light weight
- High flow rates
- UV stabilized & Chemical resistant
- Non conductive, non flammable, non corrosive
- Quick & Easy Installation





Astral Silencio

High Density Low Noise Drainage System

- First to introduce low noise drainage system in India
- The push fit alternative to cast iron for low noise soil and waste system
- Made of mineral -reinforced polypropylene
- Three layer technology for noise reduction, better flow
- Push-fit socket with special yellow ring
- Tough as metal
- Easy Installation
- Fire Resistant



Astral Drainmaster

Superior Push-Fit System For Leak Proof Joints

- With special yellow ring (German Technology)
- 100% Leak proof
- No threading no solvent cement
- High pressure baring capacity
- Dimensional accuracy & UV Protected
- High flow rates no chocking



Astral Drain Hulk

Astral PE Manhole & Inspection Chambers

- Great Flexibility
- Perfect Hydraulic Properties
- Great Strength
- Watertight System
- Hygienic & Safe
- Minimum Excavation Cost
- Minimal Maintenance
- Longer Life and Overall Economy





Astral DWV **uPVC Drain Waste & Vent System**

- 100% leak proof
- Light weight & strong
- Longer service life
- High impact strength



Astral Foamcore **Light Weight UPVC Drainage Piping System**

- First to launch triple layer foam core pipes in India
- Most durable and impact resistant
- Light in weight, easy to handle and quick to install



Astral Wire Guard **Conduit Pipes for Protection of Wires and Cables**

- Light Weight & High Mechanical Strength
- No Maintenance & Last For A Lifetime
- Smooth Interior Walls Helping In Easy Wiring
- Fire Resistance



Astral Aquasafe **uPVC Pipes For Agriculture & Water Transport System**

- Light Welding & Economical
- Odourless & Hygienic
- Smooth Bore For High Flow Rate





Astral Bore-Well

**Heavy Metal & Lead Free Column Pipes
For Submersible Pump**

- First To Introduce Lead Free Column Pipes In India
- Specially Developed Stud Pin Lock System
- Fast & Easy Installation
- 100% Hygienic & Safe For Drinking



Astral Case - Well

uPVC Casing Pipes For Borewells

- Easy To Handle
- Corrosion Free
- Durable & Maintenance Free
- Best Tensile Strength
- Best Impact Strength
- Fire Proof
- Non-Toxic
- Light Weight & Easy Installation

Weld-On

Solvent Cement for Leakage Free Plumbing

- NSF Approved Solvent Cements, Primers
- Cold Fusion Technique For Bonding
- All Products Meet The Requirement For Low VOC (Volatile Organic Compound)
- Eco-Friendly & Plumber-Friendly



SRIKALAHASTHI PIPES LTD

DUCTILE IRON (DI)

IN 1948, the international nickel co., USA developed a process in which, by inoculation of magnesium, the flaky graphite in cast iron (CI) changes to spheroidal nodules. This change in micro-structure resulted in spectacular increase in the ductility and consequently, tensile strength, without any detrimental effect on well known corrosion resistance of C.I. Thus, a new material called Spheroidal graphite cast iron or more popularly known as ductile iron (DI) was born. Due to its technical superiority, the DI soon became the preferred choice of designers.

DI PRODUCTS OF SRIPIPES

- DI socket and spigot (S&S) pipes with push on joints sizes DN - MM, class K7 & K9.
- DI barrel pipes, class K7 & K9.
- DI Flanged pipes sizes DN 100 - 1000MM, PN 10 & PN 16

APPLICATION OF DI S&S PIPES

- Transmission of raw & potable water
- Distribution of potable water
- Transmission of domestic ad industrial Effluents
- Fire fighting systems
- Piling
- Ash-Slurry Handling Systems

TECHNICAL DATA OF DI PIPES AND SPIGOT PIPES

MECHANICAL PROPERTIES

PROPERTY	UNIT	Value
TENSILE STRENGTH	Mpa	Min 420
ELONGATION AT BREAK	%	Min 10
HARDNESS	BHN	Max 230
DENSITY	KG/M ³	7050
BENDING STRENGTH	Mpa	>500
IMPACT & CRUSH LOAD	Charpy	>0.713
BURSTING STRENGTH (MINIMUM)	Factor of safety against bursting is 8 - 10	





SRIKALAHASTHI PIPES LTD

SPECIFICATIONS

STANDARD : IS 8329 with subsequent amendments(s)

SIZE RANGE : DN 100 - DN 1100mm.

LENGTH : DN 100 to 150mm - 5.5mm

DN 200 to 1100mm - 5.5m/6m (pursuant to clause 15.5.1 of IS 8329, 10% of pipes in each sizes may be supplied in shorter length)

MARKING : 'ISI MARK' (standard mark) under license issued by bureau of Indian standards (BIS), "KITEMARK" under license issued by British standard institute (BSI)

CLASS : K7 & K9.

Nominal Diameter (DN) mm	External Diameter (DE) mm	Barrel wall thickness (e) mm		Min Hydrostatic test pressure at works kg/cm ²		Allowable Operating Pressure (AOP) Excl. Surge		Allowable Maximum Operating Pressure (MOP) Incl. Surge	
						Kg/cm ²		Kg/cm ²	
		K7	K9	K7	K9	K7	K9	K7	K9
100	118	5.0	6.0	32	50	8	64	12.5	77
150	170	5.0	6.0	32	50	8	64	12.5	77
200	222	5.0	6.3	32	50	8	62	12.5	74
250	274	5.3	6.8	32	50	8	54	12.5	65
300	326	5.6	7.2	32	50	8	49	12.5	59
350	378	6.0	7.7	25	40	8	45	12.5	54
400	429	6.3	8.1	25	40	8	42	12.5	51
450	480	6.6	8.6	25	40	8	40	12.5	48
500	532	7.0	9.0	25	40	8	38	12.5	46
600	635	7.7	9.9	25	40	8	36	12.5	43
700	738	9.0	10.8	18	32	8	34	12.5	41
750	790	9.7	11.3	18	32	8	33	12.5	39
800	840	10.4	11.7	18	32	10	32	15.0	38
900	945	11.2	12.6	18	32	10	31	15.0	37
1000	1048	12.0	13.5	18	32	10	30	15.0	36
1100	1152	14.4	14.4	12	25	29	29	35.0	35

*Tolerance on 'DE' and 'e' as per IS 8329: 2000 AND AMENDMENT NO.1

NOTE: Site test pressure to be applied shall be determined as per clause 8.3 of IS 12288 - 1987. In Clause 8.3 b "plus 5N/mm²" should be read as "plus 0.5 N/mm²"



SRIKALAHASTHI PIPES LTD

SPECIFICATION OF RUBBER GASKET

DI SOCKET & SPIGOT PIPES are joined using rubber gaskets. Rubber gaskets can be sourced by users, directly from approved gasket manufacturers.

SRIPIPES can also supply these gaskets, along with pipes.

STANDARD : IS 5382 - 1985

MATERIAL : Styrene Butadiene Rubber (SBR) or Ethylene Propylene Diene Monomer (EPDM)

DIMENSIONS : Suitable for socket dimensions of DI pipes.

LINING AND COATING

DESCRIPTION	STANDARD PRODUCT	ALTERNATIVES
LINING	CEMENT MORTAR LINING WITH PORTLAND SLAG CEMENT	CEMENT MORTAR LINING WITH SULPHATE RESISTING / HIGH ALUMINA CEMENT
COATING	BITUMINOUS COATING	EPOXY COATING
	METALLIC ZINC COATING WITH FINISHED LAYER OF BITUMINOUS COATING	



SRIKALAHASTHI PIPES LTD

ADVANTAGES OF DI PIPES

- TREMENDOUS TENSILE STRENGTH
- GOOD IMPACT RESISTANCE
- HIGH DUCTILITY
- INHERENT EXCELLENT CORROSION RESISTANCE
- RELIABLE INTERNAL & EXTERNAL CORROSION PROTECTION SYSTEMS APPLIED AT FACTORY
- HIGH PRESSURE BEARING CAPACITY
- FLEXIBLE AND LEAK TIGHT JOINTS
- EASY TO LAY WITH SIMPLE PUSH - ON JOINING SYSTEMS
- EASY TO JOIN , TAP AND WELD
- BACKFILLING WITH SPECIAL MATERIAL NOT REQUIRED
- REDUCED PUMPING COST
- LONGER SERVICE LIFE OF 90 YEARS

DN – MM	PERMISSIBLE DEFLECTION IN DEG
100 – 300	3°30'
350 – 600	2°30'
700 - 1100	1°30'



AQUAMET®

Domestic Water Meters

Single Jet Class A & B, 15mm-20mm (1/2" - 3/4")



AQUAMET

An inferential, single jet, super dry, straight reading type, hermetically sealed water meter with magnetic drive.

STANDARDS

Complies with class A&B of IS-779/94.

CONSTRUCTION

- Highly sensitive to low flow rates and very accurate over its entire flow range.
- Having low loss of head which allows water to reach upper floors.
- Sealed against tampering.
- Totaliser leakproof, totally dry.
- Long maintenance free life.
- Self lubricating gears & bearings.

OPTIONS

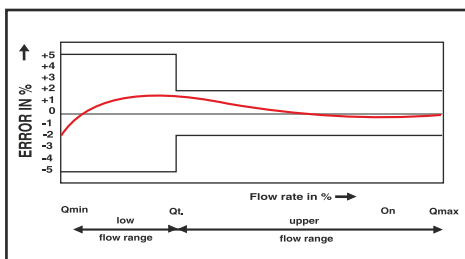
- Zenner Water Meters with EEC Mark.
- Remote reading facility/Pulse output available on request.

METROLOGICAL CHARACTERISTICS:

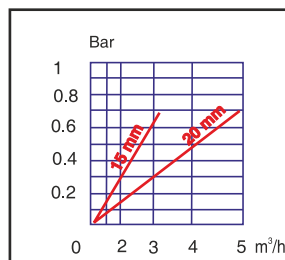
		Accurac	15mm		20mm	
			CL-A	CL-B	CL-A	CL-B
Starts Registration at	l/h	-	16	14	20	18
Lower limit of flow, Qmin	l/h	±5%	60	30	100	50
Transitional flow Qt	l/h	±2%	150	120	250	200
Nominal flow, Qn	l/h	±2%	1500	1500	2500	2500
Maximum flow, Qmax	l/h	±2%	3000	3000	5000	5000
Test pressure	Mpa		2			
Temperature suitability	°C		60°C			
Dial registration	kl		99999			
Smallest reading	l		0.2			

Description	15 mm	20 mm
Meter threads (A)	3/4" BSP	1" BSP
End connection threads (B)	1/2" BSP	3/4" BSP
Length of meter with couplings (L)	250 mm	290 mm
Length of meter without coupling (D)	110 mm	165 mm
Height (C)	72 mm	75 mm
Width (E)	72 mm	72 mm
Weight with couplings	780 gms	900 gms

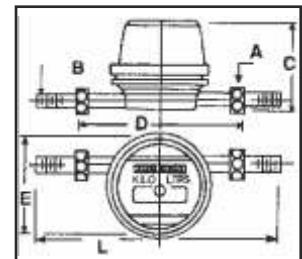
ACCURACY CURVE



HEAD LOSS CURVE



DIMENSIONS (MM)



AQUAMET[®]

Domestic Water Meters

Multi Jet Class B, 15mm-50mm (1/2"-2")



AQUAMET

An inferential, multijet, dry type water meter with magnetic drive and vacuum sealed register.

STANDARDS

Conforms to ISO 4064, Class-B.

FEATURES

- Highly sensitive to low flow rates and very accurate over its entire flow range.
- Low head loss.
- Vacuum sealed, leak proof and dry Totaliser.
- Self-lubricating gears
- Long maintenance free working life.

OPTIONS

- Remote reading facility/pulse output available on request.
- Hot Version available upto 90°C.
- Zenner Water Meters with EEC/MID/OIML Mark.

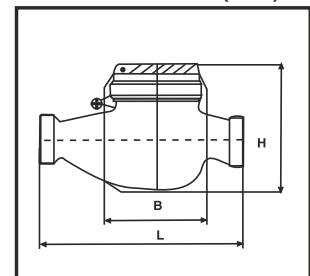
METROLOGICAL CHARACTERISTICS

	Accuracy	15mm	20mm	25mm	32mm	40mm	50mm	
		CL-B	CL-B	CL-B	CL-B	CL-B	CL-B	
Lower limit of flow, Qmin I/h	±5%	30	50	70	120	200	300	
Transitional flow, Qt I/h	±2%	120	200	280	480	800	1200	
Nominal Flow, Qn I/h	±2%	1500	2500	3500	6000	10000	15000	
Maximum Flow, Qmax I/h	±2%	3000	5000	7000	12000	20000	30000	
Test pressure MPa		2						
Temperature suitability °C		50°C						
Dial Registration	KI	99999						
Smallest reading	lts.	0.05			0.5			

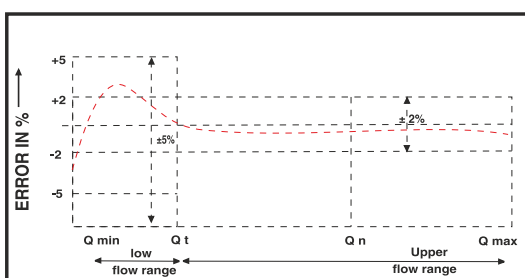
DIMENSIONS

DESCRIPTION	15mm	20mm	25mm	32mm	40mm	50mm
Meter Thread	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP	2 1/2" BSP
End connection threads	1/2" BSP	3/4" BSP	1" BSP	1 1/4" BSP	1 1/2" BSP	2" BSP
Length of meter with coupling	250 mm	290 mm	380 mm	380 mm	430 mm	470 mm
Length of meter without coupling L	165 mm	195 mm	225 mm	230 mm	245 mm	280 mm
Height H	110 mm	113 mm	115 mm	117 mm	155 mm	175 mm
Width B	96 mm	96 mm	100 mm	104 mm	124 mm	125 mm
Weight with coupling	1.49 kg.	1.80 kg.	2.10 kg.	2.60 kg.	5.50 kg.	7.50 kg.

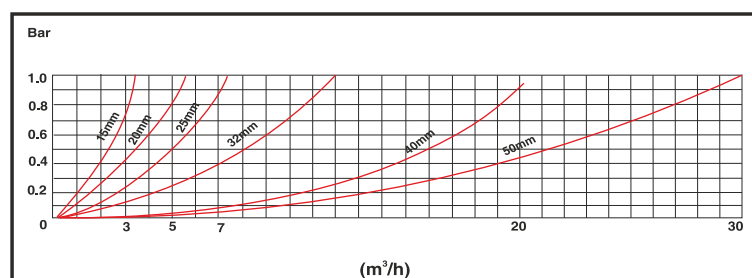
DIMENSIONS (MM)



ACCURACY CURVE



HEAD LOSS CURVE



AQUAMET®

Woltmann Water Meters®
50mm - 500mm (2" - 20")



AQUAMET

A removable mechanism type Woltmann Water Meter with magnetic drive and vacuum sealed register.

STANDARDS

Conforms to ISO 4064, Class-B.

APPLICATION

Water Distribution Network
Industrial / Commercial Water Supply
Boilers

FEATURES

- Leak proof and sealed totaliser
- Magnetic drive
- Repairable without interrupting water supply
- Removable mechanism ensures easy maintenance
- Totaliser protected by metallic cover.
- Reliable sensitive metrology and low pressure loss.

OPTIONS

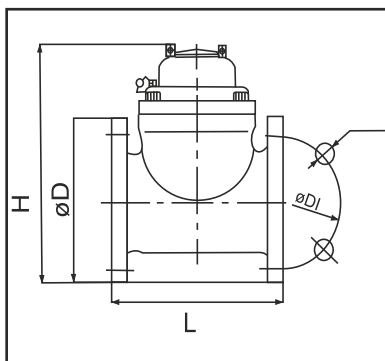
- Hot water meters (<90°C) & (<120°C)
- Pulse output water meters.
- Zenner Water Meter with EEC Mark.
- Water Meters Suitable for ETP/Dirty Water.
- Dirt Box (50mm to 500mm).
- Electro Magnetic Flow Meters (15mm to 1000mm).

METROLOGICAL PERFORMANCE:

Size of meter	Acc(%)	50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	500mm	
Minimum flow Q min	m ³ /h	±5	0.45	.75	1.20	1.80	3.00	4.50	7.50	12.00	18.00	21.00	30.00	45.00
Transitional flow Qt	m ³ /h	±2	3	5	8	12	20	30	50	80	120	160	200	300
Nominal flow Qn	m ³ /h	±2	15	25	40	60	100	150	250	400	600	800	1000	1500
Maximum flow Q max	m ³ /h	±2	30	50	80	120	200	300	500	800	1200	1600	2000	3000
Minimum Reading	m ³		0.0002	0.0002	0.0002	0.0002	0.002	0.002	0.002	0.002	0.002	0.1	0.1	0.1
Maximum Reading	m ³		→	9999999	←	→	9999999 X 10	←	→	9999999	←			
Temperature Suitability	°C		50°C											
Working Pressure	Mpa		≤1.6 MPa											

DIMENSIONS

Size of meter	50mm	65mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm	500mm
Length (L) mm	200	200	225	250	250	300	350	450	500	500	600	800
Height (H) mm	232	242	252	262	290	325	352	470	492	592	631	740
Weight kg	10.6	12.6	15.4	18.6	30	31.6	46	94	114	125	199	340



FLANGE DETAILS

Size of meter	50 mm	65 mm	80 mm	100 mm	125 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm	500 mm
Bolt Circle (øD1) mm	125	145	160	180	210	240	295	355	410	460	515	620
Dia of Flange hole	19	19	19	19	19	23	23	28	28	20	24	24
Number of Bolts	4	4	8	8	8	8	12	12	12	16	16	20
Flange outer dia (øD) mm	165	185	200	220	250	285	340	405	460	505	565	670



AQUAMET[®]





pypkote® 4 MM TAPE

Pypkote 4 mm is a Pipeline Corrosion Resistant Tape conforming to IS 10221 Appendix B specification. It comprises of a Tar based Polymeric mix supported on a fabric of high tensile strength Fibreglass. The Polymeric mix is specially manufactured to have properties of high softening point, high penetration and high resistance to ageing. Tape is terminated on both exteriors by thermofusible HMHDPE Film which aids in the installation process.

Application is fast and easy. The pipe surface is first cleaned with a wire brush. IWL CS is applied on pipes immediately after cleaning. This is to prevent any further accumulation of rust on the pipe. After the primer is applied on the pipe, it is allowed to dry for about 30 minutes till it becomes touch dry. Before adhering the tape to the pipe, it is advisable to gently heat the primer coated pipe by a run of LPG torch. The bottom surface of the tape is heated by LPG Torch or any heat source. The tape is wrapped either by spiral or circumference method over the pipe. By heating the primer coated pipe and by removing the bottom polyethylene from the tape before wrapping, better adhesion between the tape and pipe is obtained. Overlaps are maintained with a minimum of 12 mm. A final coat of White Wash is done immediately over the entire coated pipe.

Over weld joints, the tape is applied after the necessary welding and testing of the joints are completed. The procedure for application of tape is the same as bare pipe procedure. Overlaps on each side of the weld joints are to be 50 mm.

Pypkote tape is recommended for application closer to the time of pipe erection and lowering inside trenches to avoid damages to Pypkote. While in storage, Pypkote Rolls must be stacked properly under cover.

Pypkote 4 mm is available in widths of 150mm, 250mm, 500mm and 1000mm.



pypkote® 4 MM TAPE

Sl. No	Characteristics	Test Method	Specification
i	Softening Point ° C	ASTM D-36	65 to 121
ii	Thickness	Measurement	4 mm
iii	Penetration at 25°C, 100g, 5 sec, dmm	ASTM D-5	3 to 20
iv	Filler, %	IS 1217	20 to 30
v	Heat Resistance	ASTM D – 146	Does Not Drip at 100° C
vi	Tensile Strength, N/5cm, Min Lengthwise Crosswise	Din 52123	> 300 > 100



pypkote® 2 MM TAPE

Pypkote 2 mm is a Pipeline Corrosion Resistant Tape conforming to IS 10221 Appendix B specification. It comprises of a Tar based Polymeric mix supported on a film of high tensile strength HMHDPE. The Polymeric mix is specially manufactured to have properties of high softening point, high penetration and high resistance to ageing. Tape is terminated on both exteriors by thermofusible HMHDPE Films which aids in the installation process.

Pypkote 2 mm is available in widths of 500mm and 1000mm.

Application is fast and easy. The pipe surface is first cleaned with a wire brush. IWL CS is applied on pipes immediately after cleaning. This is to prevent any further accumulation of rust on the pipe. After the primer is applied on the pipe, it is allowed to dry for about 30 minutes till it becomes touch dry. Before adhering the tape to the pipe, it is advisable to gently heat the CS coated pipe by a run of LPG torch. The bottom surface of the tape is heated by LPG Torch or any heat source. The tape is wrapped either by spiral or circumference method over the pipe. Overlaps are maintained with a minimum of 12 mm. A final coat of White Wash is done immediately over the entire coated pipe.

Over weld joints, the tape is applied after the necessary welding and testing of the joints are completed. The procedure for application of tape is the same as bare pipe procedure. Overlaps on each side of the weld joints are to be 50 mm.

Pypkote 2 mm may also be applied as double layer system. In this case a second coat of IWL CS is applied over the first layer of Pypkote 2 mm tape. The CS is allowed to become touch dry. The bottom layer of HMHDPE film is removed from the tape by pulling it manually. The tape is thermofused and wrapped over the primed surface of the first layer like the first application. The overlaps are maintained at a minimum of 12 mm and sealed by thermofusion. Weld Joints are also similarly double wrapped.

Pypkote tape is recommended for application closer to the time of pipe erection and lowering inside trenches to avoid damages to Pypkote. While in storage, Pypkote Rolls must be stacked properly under cover.



pypkote® 2 MM TAPE

Sl. No	Characteristics	Test Method	Specification
i	Softening Point ° C	ASTM D-36	65 to 121
ii	Thickness	Measurement	2 mm
iii	Penetration at 25°C, 100g, 5 sec, dmm	ASTM D-5	3 to 20
iv	Filler, %	IS 1217	20 to 30
v	Heat Resistance	ASTM D – 146	Does Not Drip at 100° C
vi	Tensile Strength, N/5cm, Min Lengthwise Crosswise	Din 52123	> 90 > 70

SUPERLON[®]

insulation

Superlon insulation is engineered with the highest standard. Our closed cell characteristic is the key component to an effective insulator by providing a barrier between the pipe's surface and atmospheric conditions.

- **Low thermal conductivity and high moisture resistance:**
Superlon's insulation materials are produced with a high percentage of close cells.
- **Superior fire performance:**
Superlon's insulation products have been certified with class 1, class 0, and FM approved. In addition a high oxygen index.
- **Continuous commitment to provide the best:**
Superlon invests in R&D and are striving to further enhance its formulation to provide the best insulation solution.
- **Fast and easy installation:**
Superlon insulation materials are very flexible allowing installers to fabricate, cut to specific shapes, sizes and fittings for fast and effective installations.
- **Low allergen:**
Unlike other types of insulation materials, Superlon insulation is dust and fibre free which do not present any health related hazards.
- **Eco friendly:**
Zero Ozone Depleting Potential (ODP), Zero Global Warming Potential (GWP) and low Volatile Organic Compounds (VOC).
- **Aesthetically pleasing:**
Although Superlon's products are mainly black in color the surface of the skin is smooth presenting a respectable finish on any given job type. Color products are also available.

With the right installation methods and techniques Superlon insulation will not only provide a good thermal insulator and will also contribute to a longer lifespan to the system that it insulates.



SUPERLON[®]

insulation

	Values				Test methods
Material	Nitrile Foam Rubber				
Cell Structure	Closed Cell				
Density Range	40kg/m ³ - 70kg/m ³				
Service Temperature	Maximum 105°C pipes / (85°C for flat surfaces) Minimum -50°C				
FIRE RESISTANCE					
Surface Spread of Flames	Class 1				BS 476 PART 7
Fire Propagation	Total Index (I) ≤ 12 Sub index (i1) ≤ 6				BS 476 PART 6
Fire Performance	Class 0				
Reaction to Fire	V - 0, 5VA / HF-1, Self Extinguishing, Does not Drip				UL94
Thermal Conductivity	Mean Temp	0°	20°	40°	ASTM C518
	W/m K	0.034	0.036	0.038	
	Btu in/hr ft ² °F	0.24	0.25	0.27	
Water Vapour Permeability	≤ 2.9 x 10 ⁻¹⁴ g/Pa.m.s μ ≥ 7000				ASTM E96
Water Absorption by Volume	≤ 0.2%				ASTM C209
Ozone Resistance	Good				
Corrosion Resistance	No Corrosion				
Environment	Dust and Fibre Free CFC Free, Zero ODP, Zero GWP				

British standard (BS) 476 Part 6 (fire propagation) measures the heat that is released under fire conditions and BS 476 Part 7 (spread of flame) measures ability to retard flame spread under fire conditions.

Class 1 is widely accepted standard for insulation. If higher fire performance is required, Superlon class 0 is the preferred choice.



ELBOW



TEE



SOCKET



UNION



REDUCING ELBOW



REDUCING TEE



REDUCING SOCKET



HEX NIPPLE



TANK NIPPLE



BUSHING



SHORT BEND



PLUG





VALVES

C.I. SLUICE VALVE

IS:14846, PN 1.6



Sizes		Dimensions			
mm	Inch.	L	H	T	D
50	2"	178	365	16	165
65	2½"	190	380	15	185
80	3"	203	425	21	200
100	4"	229	470	22	220
125	5"	254	485	22.5	250
150	6"	267	595	23	285
200	8"	292	725	24.5	340
250	10"	330	835	26	395
300	12"	356	910	27.5	445

Parts Name	Material	Specifications
Body, Bonnet, Gland & Thrust Plate	Cast Iron	IS 210 FG 200
Wedge & Stuffing Box	Cast Iron	IS 210 FG 200
Handwheel	Cast Iron	IS 210 FG 200
Stem	Stainless Steel/Brass	IS 7604
Bolts & Nuts	Carbon Steel	IS 1363
Wedge Nut & Wedge Ring	Bronze	IS 318 Gr. LTB 2
Body Seat Ring	Bronze	IS 318 Gr. LTB 2
Gland Packing	Jute/Hemp	IS 5414
Gasket	Rubber	IS 638 Type B

Test Pressure (Hydraulic) Seat : 1.6 Mpa. Shell : 2.4 Mpa

BUTTERFLY VALVE

CLASS-125, PN 1.0/1.6 Mpa



Sizes		Dimensions			
mm	Inch.	L	H	H1	L/L
40	1½"	33	55	100	180
50	2"	43	63	126	180
65	2½"	46	70	140	265
80	3"	46	78	135	265
100	4"	52	90	144	265
125	5"	56	110	160	265
150	6"	56	120	180	265
200	8"	60	160	220	265
250	10"	68	210	265	265
300	12"	78	240	290	265

Parts Name	Material	Specifications
Body	Cast Iron	IS 210 FG 200
Bush	PTFE	BSEN 12086
Disc	S.G. Iron/Stainless Steel	ASTM A 536
Liner	EPDM/Linear	IS 5192-1
Lock Plate	Carbon Steel	IS 2062
Bolts & Nuts	Carbon Steel	IS 1367
Lever & Lever Lock Screw	Carbon Steel	BS 960
Upper & Lower Stem	Stainless Steel	IS 7604
Dowel Pin	Carbon Steel	BS 1574

Test Pressure (Hydraulic) Seat : 1.6 Mpa. Body : 2.4 Mpa

CAST IRON 'Y' TYPE STAINER

(Flanged)



Sizes		Dimensions		
mm	Inch.	L	H	T
40	1½"	165	123	16
50	2"	200	150	19
65	2½"	212	180	19
80	3"	260	230	19
100	4"	298	275	22.2
125	5"	350	310	25.4
150	6"	385	360	25.4
200	8"	520	440	28.6
250	10"	625	520	28.6
300	12"	750	570	32

Parts Name	Material	Specifications
Body & Cover	Cast Iron	IS 210 FG 200
Strainer	Stainless Steel	IS 7604
Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3
Bolts & Nuts	Carbon Steel	IS 1363

Test Pressure (Hydraulic) 21.1 Kg/cm²



AIR RELEASE VALVES

FUNCTIONS

Air release valves are regularly used in water main lines to fulfil following requirements:

- To release air when the main is being filled and to close and remain closed when the pipe is full to prevent loss of water.
- To open and admit air while the main is being emptied.
- To release air accumulated under pressure during normal working conditions in the pipe, again without loss of water. In kinetic air release valve, this operation is effected automatically by means of a ball float working in conjunction with an orifice of appropriate type for the duty.

DESIGN SPECIFICATIONS

- Manufacturing standard IS 14845 and they are ISI marked.
- Type DK, DS1, DS2, S1 & S2.
- Size range 50 to 200mm for DK, DS1, DS2 and 15mm to 50mm for S1 and S2.
- Pressure ratings PN10, PN16, PN20 (ON REQUEST).
- Coating options available:
 - Enamel paint as per IS: 314/9862
 - Liquid epoxy coating
 - Fusion bonded epoxy coating

SALIENT FEATURES

- Kartar kinetic air release valve is a combination of a small and a large orifice air release valves.
- A separate conventional isolating non rising sluice valve / Resilient gate valve / butterfly valve is provided for inspection / maintenance of the air release valve without closing the main line.
- Non-clogging and self sealing balls help trouble free operations.
- Perfect guide for small orifice ball and guide ribs with minimum clearance for large orifice ball for smooth movement without wobble during operation.
- Suitably shaped and precisely finished small orifice to enhance small orifice ball life.
- Specially designed cowl to prevent unauthorized access to the large orifice ball (In case of tamper proof valves).



CAST IRON DOUBLE ORIFICE KINETIC AIR RELEASE VALVE

PRODUCT CODE	K541
DESIGN STANDARD	IS : 14845 ISI MARKED
TYPE	DK
END	FLANGED
FLOATS / BALLS	RUBBER WITH TIMBER CORE
PN RATING	PN10 & PN 16
SIZE RANGE	40 TO 200MM
VARIANTS	DUCTILE IRON / SS FLOATS



CAST IRON DOUBLE ORIFICE AIR RELEASE VALVE

PRODUCT CODE	K554 & K556
DESIGN STANDARD	IS : 14845 ISI MARKED
TYPE	DS1 & DS2
END	FLANGED
FLOATS / BALLS	RUBBER WITH TIMBER CORE
PN RATING	PN10 & PN 16
SIZE RANGE	40 TO 200MM
VARIANTS	DUCTILE IRON / SS FLOATS / WITH ISOLATION ASSEMBLY



CAST IRON SINGLE ORIFICE AIR RELEASE VALVE

PRODUCT CODE	K543
DESIGN STANDARD	IS : 14845 ISI MARKED
TYPE	S1 & S2
END	SCREWED & FLANGED BOTH
FLOATS / BALLS	RUBBER WITH TIMBER CORE
PN RATING	PN10 & PN 16
SIZE RANGE	15 TO 50MM
VARIANTS	DUCTILE IRON / SS FLOATS



CAST IRON DOUBLE ORIFICE KINETIC AIR RELEASE VALVE WITH ISOLATION SLUICE VALVE WITH BEVEL GEAR

PRODUCT CODE	K545
DESIGN STANDARD	IS : 14845 ISI MARKED
TYPE	DK
END	FLANGED
FLOATS / BALLS	RUBBER WITH TIMBER CORE
PN RATING	PN10 & PN 16
SIZE RANGE	40 TO 200MM
VARIANTS	DUCTILE IRON / SLUICE VALVE WITHOUT GEAR





DOUBLE ORIFICE KINETIC AIR RELEASE VALVE TAMPER PROOF DESIGN

PRODUCT CODE	K547 & K548
DESIGN STANDARD	IS : 14845 ISI MARKED
TYPE	DK
END	FLANGED
FLOATS / BALLS	STAINLESS STEEL SS304
PN RATING	PN10 CAST IRON PN16 DUCTILE IRON
SIZE RANGE	40 TO 200MM



CAST IRON DOUBLE ORIFICE AIR RELEASE VALVE

PRODUCT CODE	K558
DESIGN STANDARD	G&K CATALOGUE
TYPE	H7
END	FLANGED
FLOATS / BALLS	RUBBER WITH TIMBER CORE
PN RATING	PN10 & PN 16
SIZE RANGE	50 TO 150MM

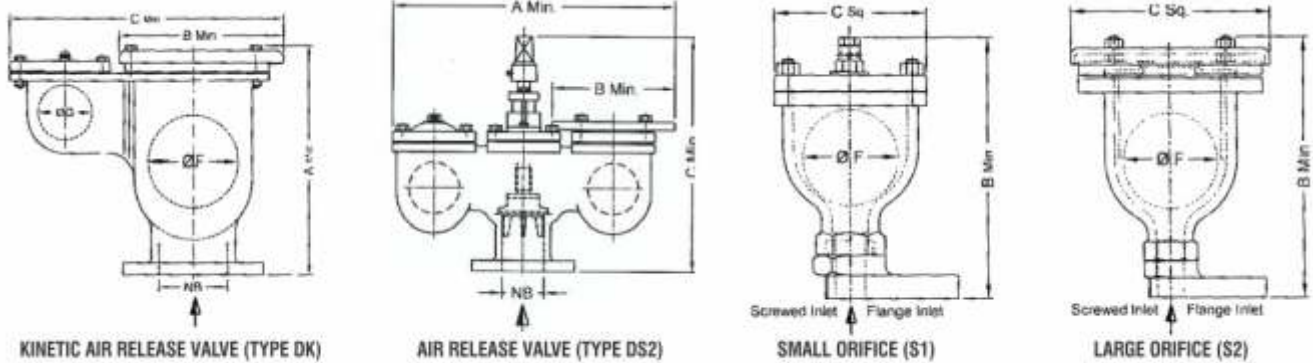


GUIDE FOR SUITABILITY OF AIR RELEASE VALVES TO WATER MAINLINE SIZE (AS PER IS: 14845)

SIZE	15MM	20MM	25MM	32MM	40MM	50MM	80MM	100MM	150MM	200MM	
S1	UPTO 100MM						-	-	-	-	-
S2	UPTO 100MM						125-200MM	-	-	-	-
DS1	NA				UPTO 100MM	125 - 200MM	225 - 350MM	400 - 500MM	600 - 900MM	1000 - 1200mm	
DS2	NA										
DK	NA										

TESTING

RATING	BODY TEST PRESSURE	SEAT PRESSURE	RECOMMENDED WORKING PRESSURE
PN 1.0	15 BAR	11 BAR	10 BAR
PN 1.6	24 BAR	17.6 BAR	16 BAR
PN 2.0	30 BAR	22 BAR	20 BAR



MATERIAL TABLE

BODY, L.P COVER , H.P COVER, COWEL JOINT SPORTING RING	CAST IRON	IS - 210 FG 200
	DUCTILE IRON	IS 1865, 500/7
ORIFICE COVER , ORIFICE PLUG INLET FORMULA	LEADED TIN BRONZE	IS - 318, LTB - 2
FLOAT / BALL (L.P)	VULCANITE COATING / TIMBER CORE WITH STAINLESS STEEL	IS - 3444 / AISI - 304
FLOAT / BALL (H.P)	RUBBER COATING / STAINLESS STEEL WITH TIMBER CORE	IS - 3444 / AISI - 304
L.P SEAT RING GASKET	RUBBER	NITRILE / IS - 638 TYPE B
BOLTS AND NUTS	CARBON STEEL	

DIMENSIONAL TABLE

SIZE	DOUBLE ORIFICE KINETIC AIR RELEASE VALVE TYPE DK					DOUBLE ORIFICE AIR RELEASE VALVE (DS2)			SINGLE AIR VALVE (S1)			SINGLE AIR VALVE (S2)		
	A	B	C	F	G	A	B	C	B	C	F	B	C	F
TOLERANCE	-	-	-	-	-	-	-	-	-	-	MIN	-	-	MIN
15mm	-	-	-	-	-	-	-	-	196	118	75	-	-	-
25mm	-	-	-	-	-	-	-	-	225	158	100	202	164	75
40mm	260	196	324	55	90	442	210	371	290	158	100	237	180	75
50mm	280	211	352	75	100	442	210	407	-	-	-	287	180	75
80mm	305	236	373	100	115	504	236	431	-	-	-	-	-	-
100mm	360	280	424	125	125	634	280	501	-	-	-	-	-	-
150mm	487	450	674	200	200	862	430	620	-	-	-	-	-	-
200mm	700	506	739	250	250	988	506	735	-	-	-	-	-	-

ALL FLANGES AS PER IS-1538 AND THREADS AS PER IS - 554

NEER

**NEER - ROOF DRAIN
DOME TYPE**



**BELL MOUTH ROOF
DRAIN**



**CI HOPPER WITH
FLAT GRATE**



SIDE WALL PARAPET



FLOOR DRAIN



ANTI COCKROACH TRAP



GALI TRAP (SQUARE)



GALI TRAP (ROUND)



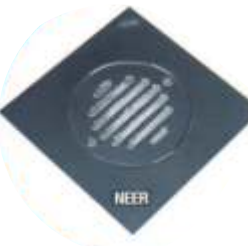
CAST IRON GALI TRAP



**ANTI-COCKROACH
TRAP (ROUND)**



**FLOOR DRAIN
SCREW TYPE**



**FLOOR DRAIN
ROUND**



NEER

**FLOOR DRAIN
CAST BRONZE**



**FLOOR DRAIN
WITH HOLE**



BALCONY TRAP



CLEAN OUT FLOOR DRAIN



SQUARE FLOOR DRAIN



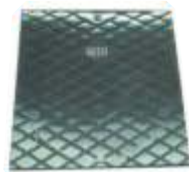
CLEAN OUT



PIPE CLEAN OUT



**SQUARE FLOOR
CLEAN OUT**



**HEAVY DUTY CLEAN OUT
SS 304**



FLOOR CLEAN OUT



CLEAN OUT



**HEAVY DUTY TRENCH
DRAINS**



XVIKING

Inlet Connections Stainless Steel Wired (Italia)



Inlet Hose Connection Hot & Cold Water (Brass Tail & Nut)



Waste Coupling Ocular (Regular)



CP Waste Coupling Long Thread



Urinal Spreader Ocular (Regular)



Urinal Spreader Sleek



Flat Drainer with Frame (With Lock & Plastic Coated)



Drainer Round SS (With Frame)



Drainer SS Square



Cockroach Trap Round Stainless Steel Pipe Cut/Without Hole (Plain)



Cockroach Trap Square Stainless Steel Pipe Cut/Without Hole (Plain)



Tile / Marble Drainer SS 304



VIKING

Urinal Cock Ocular



Urinal Waste Coupling Dome



**CP Rack Bolt Screw - Pair
(With CP Cap)**



Push Cock



**Floor Drainer Flat
Pop Up Round (SS 304)**



**Floor Drainer Flat
Pop Up Square (SS 304)**



**Brass Float Valve
with Flexible Rod**



CP Extension Nipple



CP Elbow



CP Tee



CP Socket



CP Hexagon Long Thread







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