

Bronze Ball Valve - Screwed



Features

- 1/2" (15mm) to 4" (100mm) in screwed type 2pc design
- Threads as per BSPT / NPT or any other standard can be provided
- Can be installed upto 200 degrees centigrade temperature & 35 bar pressure
- Indigenously manufactured stainless steel mirror finished balls with 100% accuracy
- Blow-out proof stem
- Gland packing can be replaced under pressure
- Mounting flange for actuator as per ISO:5211 can also be provided
- Available in Cast Bronze, Cast Brass & Forged Brass
- Available in Full Bore & Reduced Bore
- Available in Natural Finish, Chrome Plating, Nickel Plating etc.

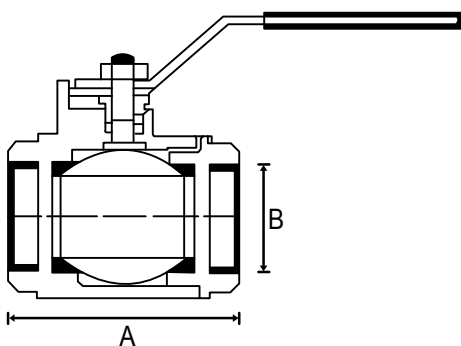
Applications

Plumbing (Hot & Cold Water), Mining Industry, Construction Industry, Water & Effluent Treatment Plants, Fire Fighting, Heating & Air Conditioning, Gas Supplies, Petroleum & Chemical Industry, Sugar Industry, Solvent Plants, Distribution of Oils, Boilers, Hydraulic Machines and for numerous other applications.

Composition

Sno.	Components	Material	
1	Body & Connector	Cast Bronze, Cast Brass & Forged Brass	Pressure Testings : Body : 22 Bar (Hydrostatically); 10 Bar (Air) Seat : 16 Bar (Hydrostatically); 7 Bar (Air) 1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI Note : All threads are BSPT/IS:554
2	Ball	AISI 202, AISI 304, Brass	
3	Stem	AISI 410, AISI 210, AISI 304, Brass	
4	Body & Stem Seals	Teflon (PTFE)	
5	Thrust Washer	M.S.	
6	Handle	M.S.	
7	Handle Sleeve	P.V.C	

Dimensions - Full Bore



Sizes		Dimensions	
Inches	mm	End to End (A)	Bore Diameter (B)
1/2	15	78	
3/4	20	83	
1	25	91	
1-1/4	32	110	
1-1/2	40	122	
2	50	137	
2-1/2	65	160	
3	80	180	
4	100	232	

Note : All threads are BSPT/IS:554

Dimensions for Reduced Bore - On Request

Bronze Compact Pressure Reducing Valve



Features

- Screwed female ends
- Easy to install
- Compact piston type design
- Provision for installation of a pressure gauge
- High quality, self lubricating rubber O ring provided as seals
- Valve is set at 3 bar pressure unless otherwise specified
- Available in PN10, PN16, PN25

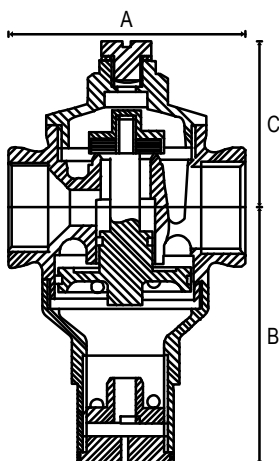
Suitability

Water, Air

Composition

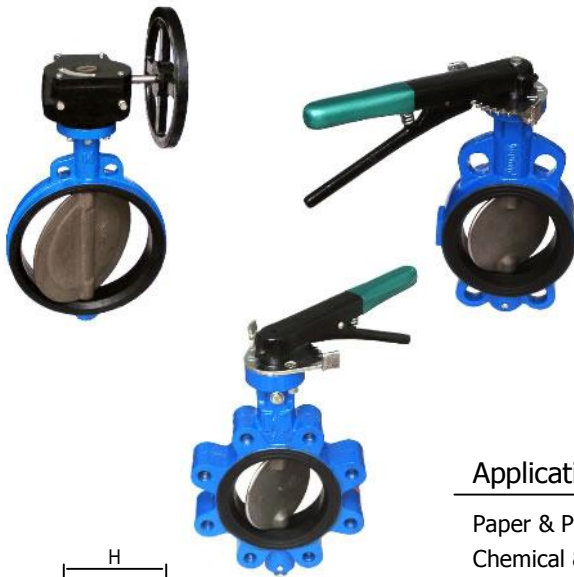
Sno.	Components	Material	PN Rating	Max. Inlet	Min. Outlet
1	Cap	Brass / Bronze - IS : 6912 / IS : 318 LTB2	10	10 Bar	0.5 Bar
2	Adjusting Ring	Brass / Bronze - IS : 6912 / IS : 318 LTB2	16	16 Bar	5 Bar
3	Spring	S.S.	25	25 Bar	8 Bar
4	O Ring & Disc	Rubber			
5	Piston	Brass / Bronze - IS : 6912 / IS : 318 LTB2			
6	Body	Bronze - IS : 318 LTB2			
7	Bonnet	Bronze - IS : 318 LTB2			
8	Plug	Brass - IS : 6912			

1 Bar = 0.1 MPa = 1.019 Kg/cm² = 14.50 PSI



Dimensions

Sizes		Dimensions		
Inches	mm	A	B	C
3/8 & 1/2	15	68	71	59
3/4	20	78	88	70
1	25	78	88	70
1-1/4	32	92	98	73
1-1/2	40	104	98	76
2	50	124	121	104



Features

- DN 50 to DN 450, PN 10 & PN 16
- Temperature Range - 34°C to 150°C
- No part in contact with fluid except disc and liner
- Self lubricated bushes
- Neck flange according to ISO:5211
- Direct Actuator mountable design
- Design reference IS:13095 & BS:5155
- Neck height to accommodate insulation
- Lugs on body make them suitable for using at the end of line
- Suitable for actuator & gear mountings
- 100% leak tight design
- Available in lever type and clutch type handles

Applications

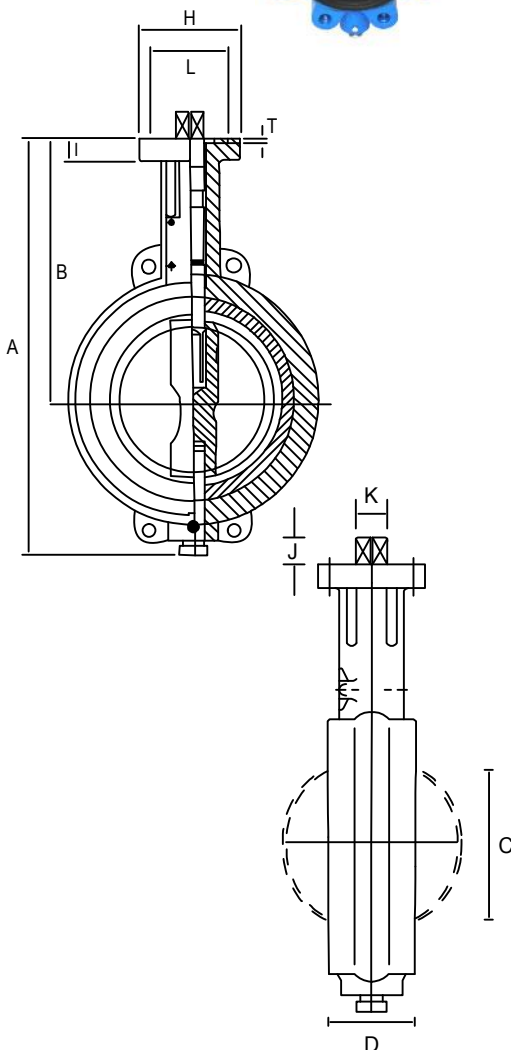
Paper & Pulp Industry, Waste & Effluent Treatment Plants, Water Treatment, Chemical & Sugar Industry, Fire Fighting, Drilling Rigs, Heating & Air Conditioning, Cooling Water Circulation, Compressed Air, Civil Constructions & numerous other

Composition

Sno.	Components	Material
1	Body	Cast Iron, SG Iron (Ductile), Cast Carbon Steel, Stainless Steel, Bronze
2	Disc	SG Iron (Ductile), Stainless Steel
3	Liner	Nitrile, Neoprene, EPDM, Silicon, Buna N
4	Upper & Lower Stem	Stainless Steel AISI 410, AISI 304
5	Bushing	Teflon or Nylon
6	O Rings	Nitrile
7	Circlips	Spring Steel

Dimensions

Sizes		Dimensions of Mounting Flange (in mm)										
Inches	mm	A	B	C	D	ØH	I	J	□K	ØL	Holes	Dia.
1-1/2	40	210	138	38	32	65	14	30	12.5	50	4	7
2	50	235	154	49	42	65	17	16	14	50	4	7
2-1/2	65	253	164	63	44	65	17	16	14	50	4	7
3	80	268	172	79	44	65	17	16	14	50	4	7
4	100	286	180	103	50	65	17	16	14	50	4	7
5	125	318	192	125	56	90	17	17	17	70	4	9
6	150	363	210	154	56	90	17	17	17	70	4	9
8	200	454	276	201	60	90	19	17	17	70	4	9
10	250	545	306	253	68	125	22	25	22	102	4	11
12	300	593	331	300	78	125	22	25	22	102	4	11
14	350	670	393	357	92	175	25	36	25	140	4	18
16	400	694	409	385	102	175	25	36	25	140	4	18
18	450	743	434	437	114	175	25	36	25	140	4	18



Suggested Operation - For PN10 & PN16 - Upto 150mm Hand Lever, Over 150mm Gear or Actuator

Air Release Valve - Cast Iron



Features

- Releases air during charging and admits air during emptying of water main lines
- Available in double orifice and single orifice
- Single orifice are available from 15mm to 50mm in screwed and flanged type
- Double orifice are available from 40mm to 150mm in flanged type only
- Rubber coated timber balls are dynamically balanced to give trouble free working
- Isolating valves if required are available optionally

Applications

Suitable for Water Line

Composition

Sno.	Components	Material	
1	Body & Covers	Cast Iron	Test Pressure (Hydraulic) : Body : 1.5 MPa Seat : 1.0 MPa 1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI
2	Balls	Rubber coated wooden balls	
3	Gaskets	Synthetic Rubber	
4	Plug	High Tensile Brass	
5	Boltings	Carbon Steel	

Dimensions

Dimensional data available on request.

Ph:- 80120

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Cast Iron Ball Valve - Flanged 3pc Design



Features



- 15mm to 100mm in Flanged type 3pc design
- Can be installed upto 200 degrees centigrade temperature & 35 bar pressure
- Indigenously manufactured stainless steel mirror finished balls with 100% accuracy
- Blow-out proof stem
- Gland packing can be replaced under pressure
- Design reference IS:9890 & ANSI B16.1
- Mounting flange for actuator as per ISO:5211 can also be provided
- Available in Cast Iron, Ductile, Cast Steel & Stainless Steel

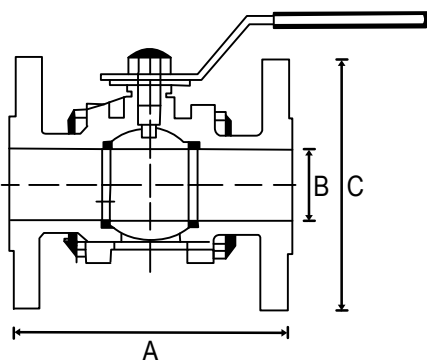
Applications

Plumbing (Hot & Cold Water), Mining Industry, Construction Industry, Water & Effluent Treatment Plants, Fire Fighting, Heating & Air Conditioning, Gas Supplies, Petroleum & Chemical Industry, Sugar Industry, Solvent Plants, Distribution of Oils, Boilers, Hydraulic Machines and for numerous other applications.

Composition

Sno.	Components	Material	
1	Body & Connecting Flanges	CL-125 & CL-250 in Cast Iron & SG Iron (Ductile)	Pressure Testings Class 150: Body : 22 Bar (Hydrostatically); 10 Bar (Air) Seat : 16 Bar (Hydrostatically); 7 Bar (Air)
2	Ball	AISI 202, AISI 304	
3	Stem	AISI 410, AISI 202, AISI 304	
4	Body & Stem Seals	Teflon (PTFE)	1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI
5	Jointing Gasket	Teflon (PTFE)	
6	Bolting	CL-125 & CL-150 in Carbon Steel CL-250 & CL-300 in Carbon Steel & Stainless Steel	
7	Handle	Carbon Steel, Stainless Steel	
8	Handle Sleeve	P.V.C	

Dimensions



Sizes		Dimensions		
Inches	mm	End to End	Bore Diameter	Flange Diameter
		A	B	C
1/2	15	130	12.5	89
3/4	20	130	19.0	98
1	25	140	25.0	108
1-1/4	32	165	32.0	117
1-1/2	40	165	38.0	127
2	50	203	51.0	152
2-1/2	65	222	63.0	178
3	80	241	76.0	191
4	100	305	102.0	229

Flange Dimensions are as per ANSI B 16.1 but they can be supplied in any dimensions or standards
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Cast Iron Ball Valve - Screwed



Features

- 1/2" (15mm) to 4" (100mm) in Screwed type 2pc & 3pc design
- Threads as per BSPT / NPT or any other standard can be provided
- Can be installed upto 200 degrees centigrade temperature & 35 bar pressure
- Indigenously manufactured stainless steel mirror finished balls with 100% accuracy
- Blow-out proof stem
- Gland packing can be replaced under pressure
- Design reference IS:9890 & ANSI B16.1
- Mounting flange for actuator as per ISO:5211 can also be provided
- Available in Cast Iron, Ductile, Cast Steel, Stainless Steel & Bronze
- Available in Full Bore & Reduced Bore

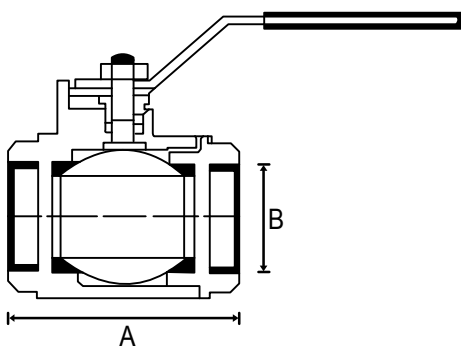
Applications

Plumbing (Hot & Cold Water), Mining Industry, Construction Industry, Water & Effluent Treatment Plants, Fire Fighting, Heating & Air Conditioning, Gas Supplies, Petroleum & Chemical Industry, Sugar Industry, Solvent Plants, Distribution of Oils, Boilers, Hydraulic Machines and for numerous other applications.

Composition

Sno.	Components	Material	
1	Body & Connector	Cast Iron, SG Iron, Cast Carbon Steel, Stainless Steel, Bronze	Pressure Testings : Body : 22 Bar (Hydrostatically); 10 Bar (Air) Seat : 16 Bar (Hydrostatically); 7 Bar (Air) 1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI Note : All threads are BSPT/IS:554
2	Ball	AISI 202, AISI 304, Brass	
3	Stem	AISI 410, AISI 210, AISI 304	
4	Body & Stem Seals	Teflon (PTFE)	
5	Thrust Washer	M.S.	
6	Handle	M.S.	
7	Handle Sleeve	P.V.C	

Dimensions - Full Bore



Sizes		Dimensions	
Inches	mm	End to End (A)	Bore Diameter (B)
1/2	15	78	12.5
3/4	20	83	19.0
1	25	91	25.0
1-1/4	32	110	31.8
1-1/2	40	122	38.0
2	50	137	51.0
2-1/2	65	160	63.5
3	80	180	76.0
4	100	232	102.0

Note : All threads are BSPT/IS:554

Dimensions for Reduced Bore - On Request

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Dual Plate Check Valve - Cast Iron



Features

- Permits flow in one direction and closes automatically if the flow reverses
- Strictly conforming to International Standards
- Available in rubber seating & metal seating
- Wafer type sleek design to allow maximum flow



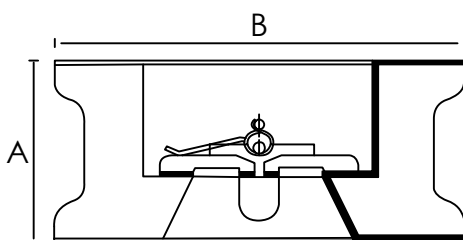
Suitability

Water, Oil

Composition

Sno.	Components	Material	
1	Body	Cast Iron, Ductile Iron, Cast Steel	Test Pressure (Hydraulic) : Body : 1.5 MPa Seat : 1.0 MPa 1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI
2	Discs	Bronze, Stainless Steel	
3	Seat	Nitrile, EPDM, Buna N	
4	Spring	Stainless Steel	
5	Hinge Pin & Stop Pin	Stainless Steel	
6	Washers	PTFE	
7	Plugs	Carbon Steel	

Dimensions



Sizes		Dimensions	
Inches	mm	A	B
2	50	60	104
2-1/2	65	67	123
3	80	73	134
4	100	73	158
5	125	83	190
6	150	98	219
8	200	127	270

Ph:- 80120

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Features

- Fittings are accessories used with main line pipe installations
- Available in Cast Iron, Ductile Iron and Forged Carbon Steel
- Cast Iron - available in Flanged Jointing and Lead Jointing
- Ductile Iron - Available in Flanged Jointing & Tyton Rubber Ring Jointing
- Forged Carbon Steel - Available in Screwed and Butt Welding
- Cast Iron & Ductile Iron Fittings are in PN:16
- Cast Iron Fittings - Certified by The Bureau of Indian Standards.

Applications

Suitable for Water Line, Sewerage Line, Gas Line

Composition

- Cast Iron
- Ductile Iron
- Forged Carbon Steel

Types

- Flanged Sockets
- Flanged Spigots
- All Socketed & Flanged equal Tees
- All Socketed & Flanged unequal Tees
- Socketed & Flanged Bends in 90 degree, 45 degree, 22½ degree & 11¼ degree
- Socketed & Flanged Reducers
- Fire Hydrant Tees
- Surface Boxes
- Y Tees
- Blank Flanges
- Threaded Flanges
- Puddle Pipes

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Cast Iron Foot Valve



Features

- Permits flow in one direction and closes automatically if the flow reverses
- Strictly conforming to IS : 4038
- Available in rubber seating
- Available in swing type & lift type design
- Swing type - Screwed 15mm to 150mm
- Swing type - Flanged 50mm to 300mm
- Lift type - Screwed & Flanged 25mm to 100mm
- Valves upto 150mm have single circular door
- Valves above 150mm have two semi circular doors
- Valve designed for almost full flow rate

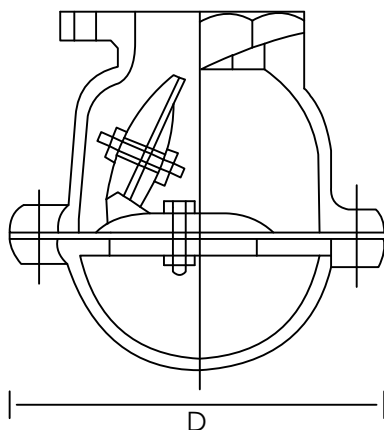
Applications

Suitable for Water Line

Composition

Sno.	Components	Material	
1	Housing	Grey Cast Iron / Ductile Iron	Test Pressure (Hydraulic) : Body : 1.5 MPa Seat : 1.0 MPa
2	Hinge Pin	High Tensile Brass - IS:320, HT-2	
3	Disc Guide Pin	High Tensile Brass - IS:320, HT-2	
4	Disc	Grey Cast Iron - IS:210 FG.200	1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI
5	Disc Face	Natural Rubber with canvas reinforcement IS:5192	
6	Disc Plate	Grey Cast Iron - IS:210 FG.200	
7	Seat	Grey Cast Iron - IS:210 FG.200	
8	Strainer	Grey Cast Iron - IS:210 FG.200	

Dimensions



Sizes		Dimensions
Inches	mm	D (max)
1	25	20
1-1/4	32	140
1-1/2	40	150
2	50	160
2-1/2	65	220
3	80	240
4	100	290
5	125	340
6	150	380
8	200	580
10	250	625
12	300	750

Features

- Flanged ends to DIN 2533 PN-16 RF upto 150 mm
- Straight pattern, outside screw, yoke type, rising spindle
- Renewable 13% Cr. Stainless Steel (AISI - 410) working parts
- Provision for re-packing under pressure. (Back Seat arrangement provided)
- Minimum pressure drop inside the body due to streamlined body design

Applications

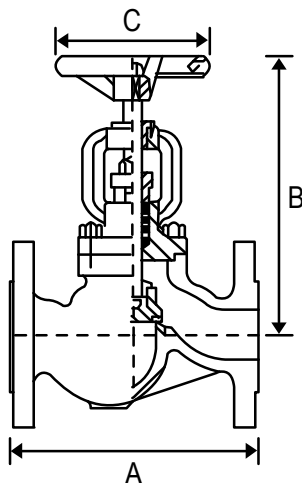
Suitable for Water Line

Composition

Sno.	Components	Material
1	Body, Bonnet, Disc & Gland	Cast Iron - IS : 210 Gr. FG-260
2	Handwheel	Ductile Iron - IS : 1865 Gr. 420/12
3	Stud, Nut & Washer	Mild Steel - IS : 1367
4	Stem, Bush, Disc Ring & Body Seat Ring	S.S. - AISI - 410
5	Gasket	C.A.F - IS : 2712 Gr.C
6	Gland Packing	Graphited Asbestos

Working & Test Pressure :
 Test Pressure (Hydrostatic) - 30 Bar
 Working Pressure - 20 Bar

1 Bar = 0.1 MPa = 1.019 Kg/cm² = 14.50 PSI



Dimensions

Sizes		Dimensions		
Inches	mm	A	B	C
1-1/2	40	200	225	150
2	50	230	250	150
2-1/2	65	290	280	180
3	80	310	295	200
4	100	350	335	230
6	150	480	470	320

Cast Iron Non Return (Reflux) Valve



Features

- Self operative swing type design
- Flanged ends
- Designed to allow maximum flow of water
- Available in PN10 & PN16
- ISI Marked as per IS:5312
- Bye pass arrangement can be provided

Suitability

Water
Oil

Composition

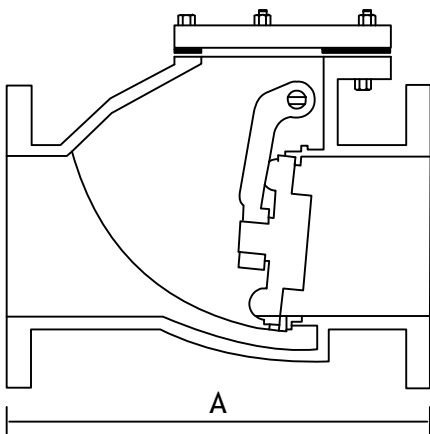
Sno.	Components	Material
1	Body, Cover, Hinge, Door, Door Face Disc	Cast Iron, SG Iron
2	Hinge Pin	High Tensile Brass, Stainless Steel
3	Body Face Ring	Leaded Tin Bronze (Gun Metal), S.S.
4	Door face	Leaded Tin Bronze, Natural Rubber
5	Boltings	Carbon Steel
6	Gaskets	Rubber, CAF.

Working & Test Pressure

Type of Valve	Hydrostatic Test (MPa)	
	Body / Shell	Seat
PN 0.6	0.9	0.6
PN 1.0	1.5	1.0
PN 1.6	2.4	1.6

1 Bar = 0.1 MPa = 1.019 Kg/cm² = 14.50 PSI

Dimensions



Sizes	Length over Flanges	Size of Bye Pass Valve	Std. Pressure Rating
mm	A		PN
50	200	10	1.6
65	240	10	1.6
80	260	10	1.6
100	300	10	1.6
125	350	15	1.6
150	400	15	1.0
200	500	25	1.0
250	600	25	1.0
300	700	40	1.0
350	800	40	0.6
400	900	40	0.6
450	1000	50	0.6

Note : The valves can also be made in PN 1.6 & 1.0 on request

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Cast Iron Sluice Valve



Features

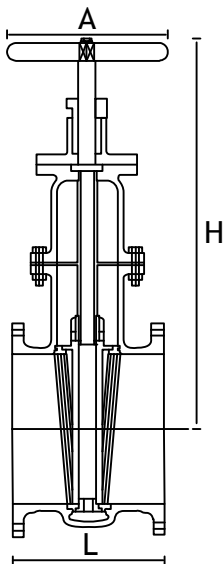
- Generally in non rising stem design
- Available in outside yoke type rising stem
- Flanged ends
- Handwheel, cap or gear operated
- Available in PN10 & PN16
- ISI Marked as per IS:14846
- Available in CL-125 as per BS:5163
- Available in resilient seating as well as metal seating

Suitability

Water, Oil, Air, Fire fighting applications, Marine applications

Composition

Sno.	Components	Material	Working & Test Pressure		
1	Body, Bonnet, Wedge, Stuffing Box, Gland, Thrust Plate, Cap & Yoke	Cast Iron, SG Iron Ductile, Cast Steel	Sluice Valve PN 1.0	Sluice Valve PN 1.6	Gate Valve CI 150
2	Handwheel	Cast Iron, SG Iron	Hydrostatic Test (MPa) Body / Shell		
3	Stem	Stainless Steel AISI - 410, 202, 304 High Tensile Brass	1.5	2.4	3.0
4	Wedge Nut, Back Seat Bush	High Tensile Brass/Leaded Tin Bronze (Gun Metal)	Hydrostatic Test (MPa) Seat		
5	Body Seat Rings, Wedge Facing Rings & Bushes	S.S. AISI-410, 202, 304/Leaded Tin Bronze(Gun Metal)	1.0	1.6	2.2
6	Nuts & Bolts	Carbon Steel / Stainless Steel	Pneumatic Test (MPa) Seat		
7	Gaskets	CAF / Rubber	NA	NA	0.7
8	Gland Packing	Asbestos / Graphite / Rubber O Rings	1 Bar = 0.1 MPa = 1.019 Kg/cm ² = 14.50 PSI		



Dimensions

Sizes	Length		Width	H		A	
	mm	PD		Alt II	NRS	RS	PN1.0
50	178	250	160	365	415	225	290
65	190	270	215	380	440	225	280
80	203	280	220	425	495	225	280
100	229	300	250	470	585	320	360
125	254	325	310	485	595	320	360
150	267	350	330	595	745	320	360
200	292	400	460	725	810	360	450
250	330	450	495	835	1150	400	640
300	356	500	585	910	1205	400	640
350	381	-	650	1020	-	500	640
400	406	-	750	1110	-	640	730
450	432	-	830	1200	-	720	800

PD & Alt II are 2 types as per Indian Standards
NRS : Non Rising Stem; RS : Rising Stem