ZOLOTO®
VALVES
since 1966

1001 Bronze Globe Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

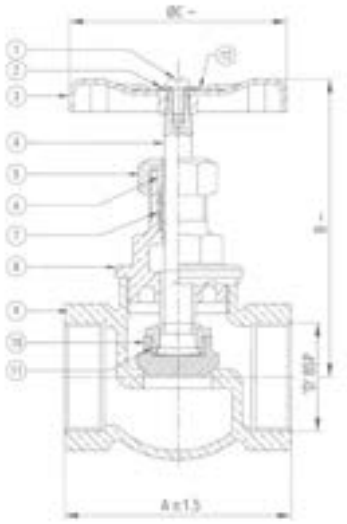


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Disc	Bronze	IS 318 Gr. LTB2	1
11	Disc Nut	Bronze	IS 318 Gr. LTB2	1
12	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4	8	33	60	50	1/4″
3/8	10	37	60	50	3/8″
1/2	15	45	70	60	1/2″
3/4	20	53	85	65	3/4″
1	25	57	93	70	1″
1 1/4	32	71	109	80	1 1/4″
1 1/2	40	80	117	90	1 1/2″
2	50	86	137	110	2″
2 1/2	65	107	154	120	2 1/2″
3	80	123	184	140	3″
4	100	159	224	160	4″

~ ±10

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1001A Bronze Angle Globe Valve No.4 (Screwed)

Salient Features

- Angle Pattern.
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

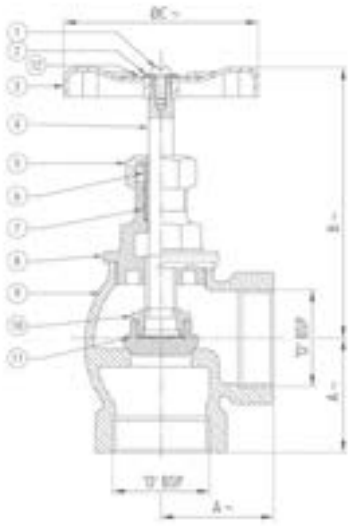


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Disc Nut	Bronze	IS 318 Gr. LTB2	1
11	Disc	Bronze	IS 318 Gr. LTB2	1
12	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ~	B ~	ØC ~	D
1/2	15	29	75	60	1/2″
3/4	20	35	82	65	3/4″
1	25	43	90	70	1″
1 1/4	32	47	115	80	1 1/4″
1 1/2	40	54	125	90	1 1/2″
2	50	66	143	110	2″

~ ±10

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1002 Bronze Globe Valve No.5 (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Heavy Pattern.

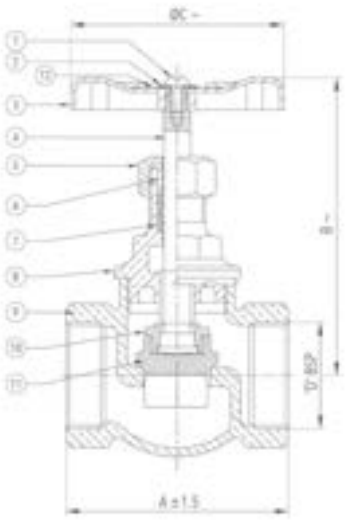


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Seat : 20 kg/cm²g (285 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Disc Nut	Bronze	IS 318 Gr. LTB2	1
11	Disc	Bronze	IS 318 Gr. LTB2	1
12	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4	8	34	58	60	1/4″
3/8	10	41	72	60	3/8″
1/2	15	55	90	60	1/2″
3/4	20	65	103	65	3/4″
1	25	82	119	70	1″
1 1/4	32	88	136	70	1 1/4″
1 1/2	40	98	147	102	1 1/2″
2	50	120	162	110	2″
2 1/2	65	133	189	130	2 1/2″
3	80	160	215	164	3″

~ ±10

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1003 Bronze Globe Valve No.8 (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'D'.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

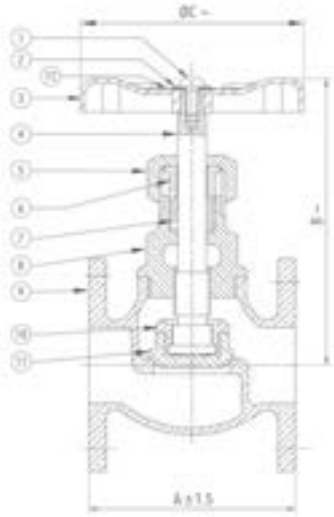


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Disc Nut	Bronze	IS 318 Gr. LTB2	1
11	Disc	Bronze	IS 318 Gr. LTB2	1
12	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1/2	15	53	85	50
3/4	20	67	90	57
1	25	80	98	62
1 1/4	32	85	115	76
1 1/2	40	91	127	80
2	50	106	140	86

~ ±10

NOTE : Also available with Open-Shut indicator and locking device at a nominal extra price.

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1004 Bronze Globe Valve (One Side Flanged) with PTFE Seating

Salient Features



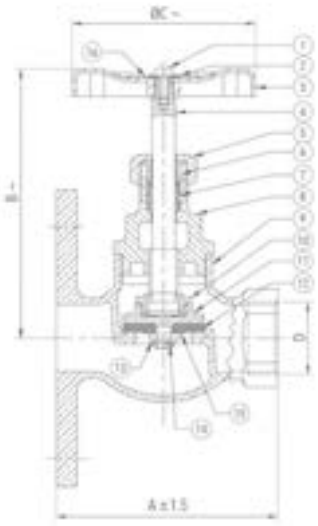
- Inlet Side Flanged to BS 10 Table 'D' and Outlet Side Screwed Female End to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.
- Ideal for transformers, even for less viscous oil.

Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
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)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Disc Nut	Bronze	IS 318 Gr. LTB2	1
11	Disc	Bronze	IS 318 Gr. LTB2	1
12	Disc Facing	PTFE	– – –	1
13	Retaining Nut	Forged Brass	IS 6912 Gr. FLB	1
14	Split Pin	Brass	– – –	1
15	Washer (Optional)	Brass Sheet	– – –	1
16	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/2	15	53	85	60	1/2″
3/4	20	67	90	65	3/4″
1	25	80	98	70	1″
1 1/4	32	86	115	80	1 1/4″
1 1/2	40	91	127	90	1 1/2″
2	50	106	140	110	2″

~ ±10

NOTE : For size 15, 20 and 25 part number 10 is not applicable.

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1005 Bronze Needle Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Needle Type Spindle Seating.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

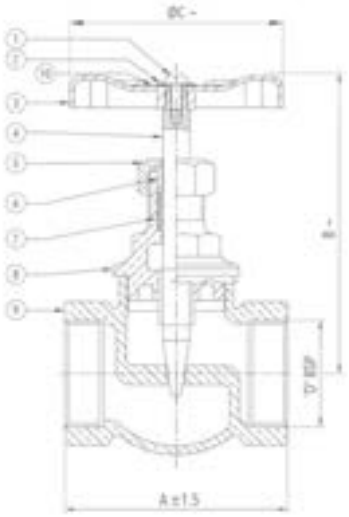


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Bronze	IS 318 Gr. LTB2	1
9	Body	Bronze	IS 318 Gr. LTB2	1
10	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/2	15	48	85	60	1/2″
3/4	20	55	92	65	3/4″
1	25	65	100	70	1″
1 1/4	32	77	110	80	1 1/4″
1 1/2	40	90	125	90	1 1/2″
2	50	102	142	110	2″

~ ±10

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1006 Bronze Gate Valve (Hex. Type) (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat.
- Forged Brass Bonnet, Wedge, Stem and Gland Nut.
- Body designed for convenient fitting where space constraint is the factor.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.

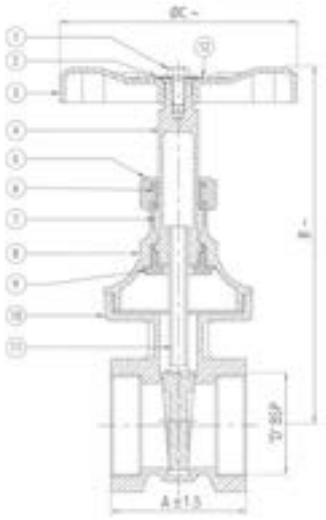


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Hand wheel	Sheet Metal (Powder Coated)	– – –	1
4	Stem	Forged Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB 2*	1
5	Gland Nut	Forged Brass	IS 6912 Gr. FLB	1
6	Gland	Forged Brass	IS 6912 Gr. FLB	1
7	Gland Packing	PTFE	– – –	–
8	Bonnet	Forged Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB 2*	1
9	Check Nut	Forged Brass	IS 6912 Gr. FLB	1
10	Body	Bronze	IS 318 Gr. LTB 2	1
11	Wedge	Forged Brass	IS 6912 Gr. FLB	1
12	Name Plate	Aluminum	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4*	8*	35	92	60	1/4″
3/8*	10*	38	96	60	3/8″
1/2	15	41	103	60	1/2″
3/4	20	45	122	65	3/4″
1	25	50	137	70	1″
1 1/4	32	54	150	90	1 1/4″
1 1/2	40	60	166	90	1 1/2″
2	50	65	200	110	2″
2 1/2*	65*	76	250	120	2 1/2″
3*	80*	92	292	138	3″
4*	100*	105	365	160	4″

~ ±10

*Stem and Bonnet for Size 8, 10, 65, 80 and 100 are of Bronze.

NOTE : Size 6″ can also be made available.

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1007 Bronze Gate Valve (Peg. Type) (Screwed)

Salient Features

- Design Standard BSEN 12288 (BS 5154).
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.

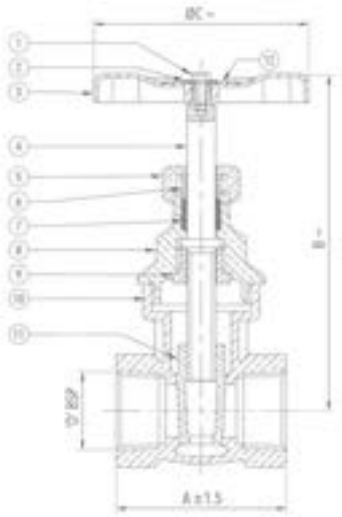


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	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	– – –	–
8	Bonnet	Forged Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB2	1
9	Check Nut	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*	43	89	50	1/4″
3/8*	10*	43	92	50	3/8″
1/2	15	48	105	60	1/2″
3/4	20	53	114	65	3/4″
1	25	60	129	70	1″
1 1/4	32	68	139	80	1 1/4″
1 1/2	40	72	155	90	1 1/2″
2	50	83	189	110	2″
2 1/2	65	94	220	120	2 1/2″
3	80	105	250	140	3″
4*	100*	127	307	160	4″

~ ±10

*Bonnet for Size 8, 10 and 100 is of Bronze.

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1008 Bronze Ball Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Stainless Steel Ball.
- Premium Quality PTFE Gland Packing and Seating.

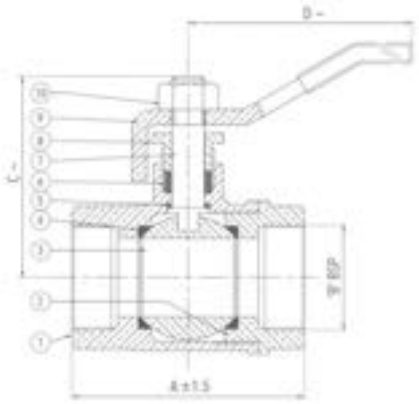


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

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	Bonnet	Bronze / Forged Brass	IS 318 GR. LTB 2 / IS 6912 Gr. FLB	1
3	Ball	Stainless Steel	ASTM A276 Type 304 / ASTM A351 Gr. CF8	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Washer	PTFE	– – –	1
6	Gland Packing	PTFE	– – –	–
7	Stem	Stainless Steel	ASTM A276 Type 410	1
8	Gland	Forged Brass	IS 6912 Gr. FLB	1
9	Lever	Mild Steel	– – –	1
10	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2*	15*	60	1/2″	44	105
3/4*	20*	66	3/4″	48	123
1*	25*	73	1″	58	123
1 1/4	32	91	1 1/4″	73	148
1 1/2	40	91	1 1/2″	80	178
2	50	117	2″	85	213
2 1/2	65	135	2 1/2″	110	245
3	80	162	3″	116	330
4	100	201	4″	139	330

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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1008A Bronze Ball Valve E-Model (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Stainless Steel Ball.
- Premium Quality PTFE Gland Packing and Seating.

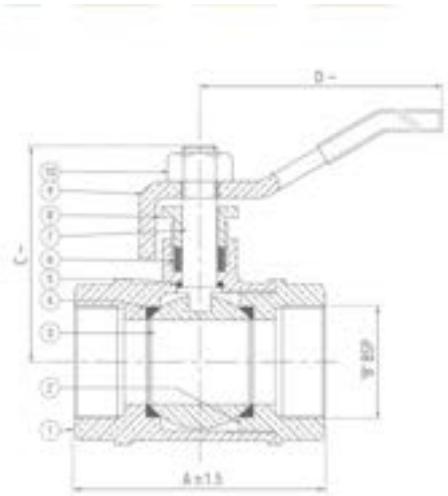


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

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	Bonnet	Bronze	IS 318 Gr. LTB 2	1
3	Ball	Stainless Steel	ASTM A276 Type 304 / ASTM A351 Gr. CF8	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Washer	PTFE	– – –	1
6	Gland Packing	PTFE	– – –	–
7	Stem	Stainless Steel	ASTM A276 Type 410	1
8	Gland	Forged Brass	IS 6912 Gr. FLB	1
9	Lever	Mild Steel	– – –	1
10	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2	15	53	1/2″	40	106
3/4	20	58	3/4″	44	123
1	25	68	1″	50	123
1 1/4	32	76	1 1/4″	65	147
1 1/2	40	85	1 1/2″	72	178
2	50	102	2″	79	217

~ ±10

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1008B Forged Brass Ball Valve (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 / SS 304 Hard Chrome Plated Ball.
- Premium Quality PTFE Gland Packing and Seating.
- Chrome Finish.



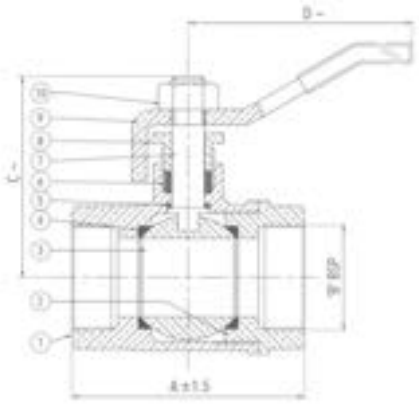
Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

Suitable For
Water, Oil, Air*
*Suitable for pressure upto 6.9 Kg/cm²g

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 / Stainless Steel (Hard Chrome Plated)	IS 6912 Gr. FLB / ASTM A276 Type 304	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Washer	PTFE	– – –	1
6	Gland Packing	PTFE	– – –	
7	Stem	Forged Brass	IS 6912 Gr. FLB	1
8	Gland	Forged Brass	– – –	1
9	Lever	Aluminium Alloy / Mild Steel	– – –	1
10	Nut	Brass (Chrome Plated)	– – –	1

Note : Lever for Size 8mm and 10mm is of Mild Steel



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	57	3/4″	43	132
1	25	67	1″	47	132
1 1/4	32	76	1 1/4″	62	166
1 1/2	40	87	1 1/2″	68	176
2	50	104	2″	80	216
2 1/2	65	139	2 1/2″	100	216
3	80	155	3″	110	280
4	100	177	4″	124	280

~ ±10

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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.

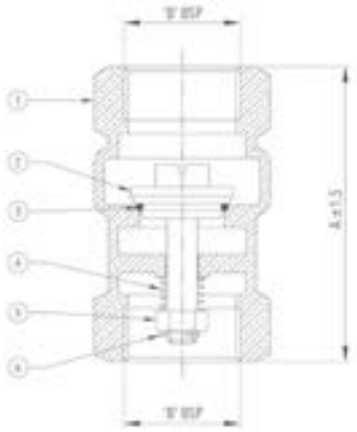


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

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	– – –	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″

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1009A Forged Brass Multi Utility Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet.
- Suitable for both Horizontal and Vertical Lines.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Disc is guided in Body as well as in Bonnet.
- Chrome Finish.

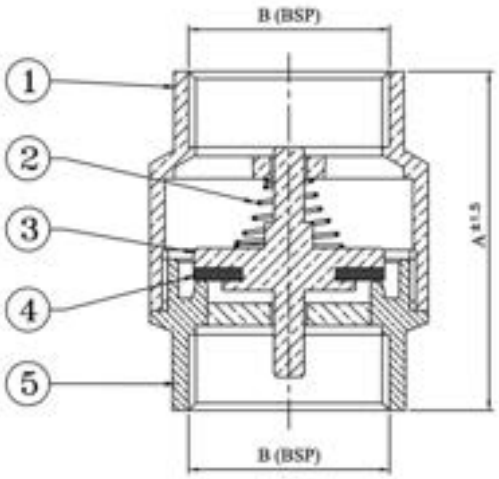


Test Pressure (Hydrostatic) :
Shell : 15 kg/cm²g (220 psig)
Seat : 10 kg/cm²g (150 psig)
Maximum Working Temperature : 90°C

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	Spring	Stainless Steel	Type 304	1
3	Disc	Forged Brass	IS 6912 Gr. FLB	1
4	Disc Facing	Nitrile Rubber	IS 638 Type B	1
5	Bonnet	Forged Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	46	1/2″
3/4	20	53	3/4″
1	25	56	1″
1 1/4	32	60	1 1/4″
1 1/2	40	65	1 1/2″
2	50	76	2″

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1010 Bronze Horizontal Check Valve (Screwed)

Salient Features

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

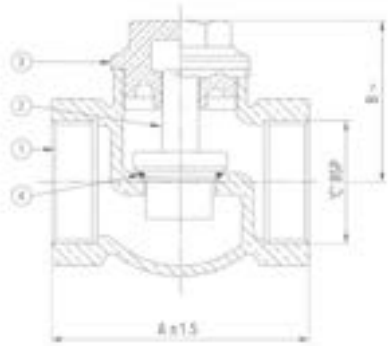


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 80°C

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 / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	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″

~ ±10

*Bonnet for Size 65, 80 and 100 is of Bronze.

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1010A Bronze Angle Type Lift Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Angle Pattern, Screwed in Bonnet, Integral Seat.
- 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.

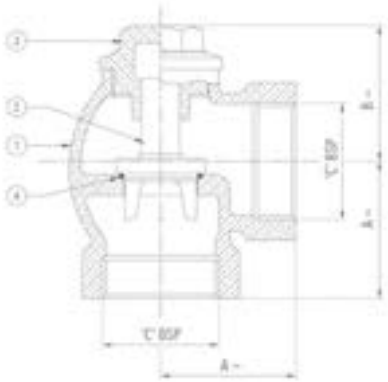


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

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	Bonnet	Forged Brass	IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ~	B ~	C
1/2	15	29	34	1/2″
3/4	20	35	40	3/4″
1	25	43	46	1″
1 1/4	32	47	53	1 1/4″
1 1/2	40	54	61	1 1/2″
2	50	66	70	2″

~ ±10

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1011 Bronze Horizontal Check Valve No.5 (Screwed)

Salient Features

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

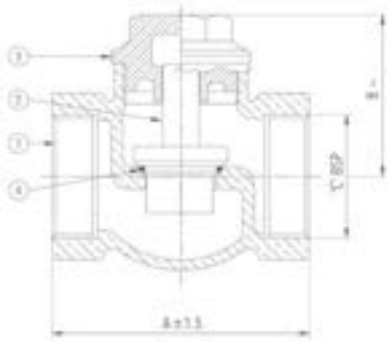


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Seat : 20 kg/cm²g (285 psig)
Maximum Working Temperature : 80°C

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	34	28	1/4″
3/8	10	41	35	3/8″
1/2	15	52	42	1/2″
3/4	20	65	48	3/4″
1	25	82	55	1″
1 1/4	32	88	61	1 1/4″
1 1/2	40	98	66	1 1/2″
2	50	120	75	2″
2 1/2	65	133	84	2 1/2″
3	80	160	96	3″

~ ±10

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1012 Bronze Horizontal Check Valve No.8 (Flanged)

Salient Features

- Flanged Ends to BS 10 Table ‘D’.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.
- Also available with metal to metal seating.

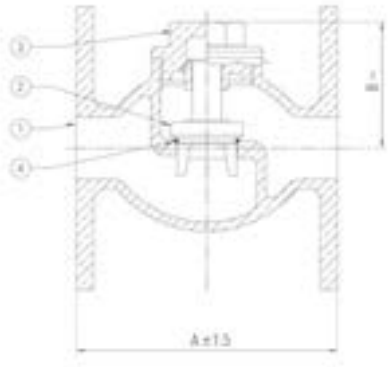


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

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	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 ~
1/2	15	53	32
3/4	20	67	37
1	25	80	45
1 1/4	32	85	51
1 1/2	40	91	60
2	50	106	68

~ ±10

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1013 Bronze Horizontal Check Valve No.9 (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Bonnet.

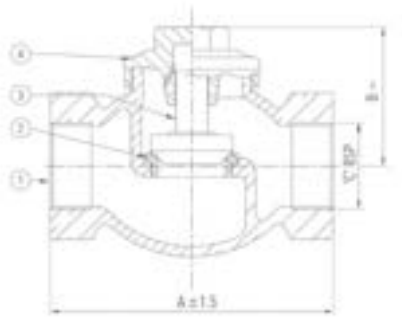


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Bonnet	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/4	8	60	40	1/4″
3/8	10	60	43	3/8″
1/2	15	68	48	1/2″
3/4	20	84	50	3/4″
1	25	95	61	1″
1 1/4	32	106	72	1 1/4″
1 1/2	40	120	84	1 1/2″
2	50	146	93	2″
2 1/2	65	180	109	2 1/2″
3	80	200	121	3″
4	100	248	146	4″

~ ±10

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1014 Bronze Horizontal Check Valve No.9 (Flanged)

Salient Features

- Flanged Ends to BS 10 Table ‘F’.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Bonnet.

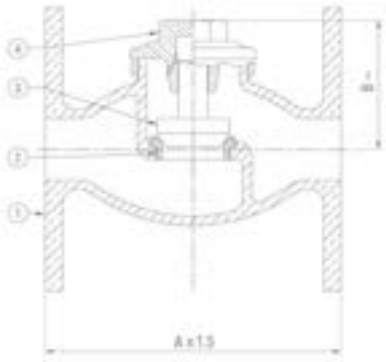


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Bonnet	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	82	48
3/4	20	96	50
1	25	112	61
1 1/4	32	119	72
1 1/2	40	132	84
2	50	157	93
2 1/2	65	185	109
3	80	213	121
4	100	248	146

~ ±10

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1018 Bronze Ferrule Cock (Medium)

Salient Features

- Screwed Male Ends (Inlet to BSPT and Outlet to BSP) to IS 554 / BS 21 / ISO 7.
- Medium Pattern, Rough Body, Full Flow.
- Metal to Metal contact seating.
- Can withstand heavy impact of water as well as tolerance of sudden pressure.

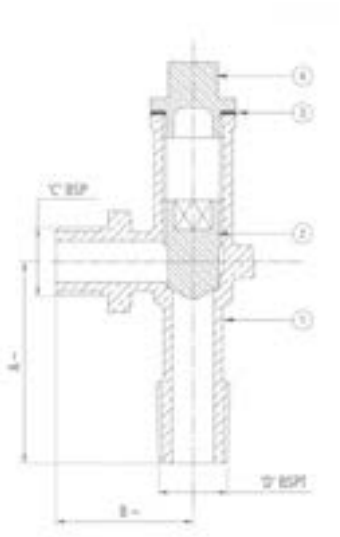


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 225°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Plug	Bronze	IS 318 Gr. LTB 2	1
3	Joint Washer	Leather	– – –	1
4	Cap	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±5	B ±5	C	D
1/4	8	57	35	1/4″	1/4″
3/8	10	60	36	3/8″	3/8″
1/2	15	57	37	1/2″	1/2″

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1019 Bronze Ferrule Cock (Heavy)

Salient Features

- Screwed Male Ends (Inlet to BSPT and Outlet to BSP) to IS 554 / BS 21 / ISO 7.
- Heavy Pattern, Rough Body, Full Flow.
- Metal to Metal contact seating.
- Can withstand heavy impact of water as well as tolerance of high sudden pressure.

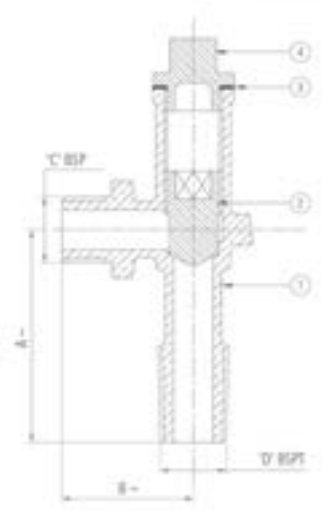


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Plug	Bronze	IS 318 Gr. LTB 2	1
3	Joint Washer	Leather	– – –	1
4	Cap	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±5	B ±5	C	D
1/2	15	70	42	1/2″	1/2″
3/4	20	75	50	3/4″	3/4″
1	25	80	60	1″	1″

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1019A Bronze Ferrule Cock

Salient Features

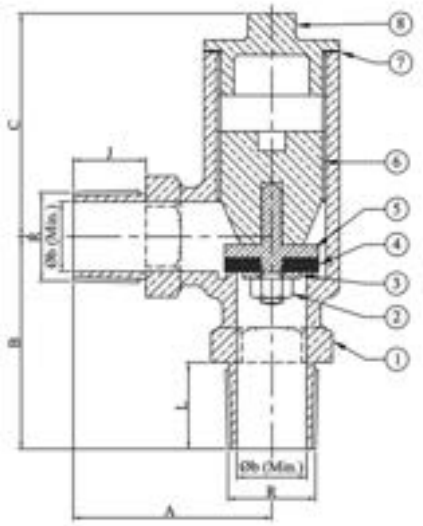
- Design Standard IS 2692.
- Screwed Male Ends to BSPT as per IS 554 / BS 21/ ISO 7.
- Heavy Pattern, Rough Body, Full Flow.
- Metal to Rubber contact seating.
- Can withstand heavy impact of water as well as tolerance of high sudden pressure.



Test Pressure (Hydrostatic) :
Seat : 1.5 MPa
Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Nut	Brass	IS 319 Grade 1(HB)	1
3	Washer	Brass	IS 410	1
4	Resilient Washer	Rubber	—	1
5	Washer Plate	Brass	IS 319 Grade 1(HB)	1
6	Plug	Bronze	IS 318 Gr. LTB 2	1
7	Gasket	Leather	—	1
8	Cap	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A+3	B+3	C±5	R	øb(Min.)	L+2	J+2
1/4	8	50	55	60	1/4″	8.0	25	17
3/8	10	50	55	60	3/8″	8.8	25	17
1/2	15	55	60	70	1/2″	12.3	25	19
3/4	20	60	65	75	3/4″	17.8	25	20
1	25	70	75	85	1″	24.5	30	25

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1022A Forged Brass Ball Bib Cock (Chrome Plated)

Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Provided with Hard Chrome Plated Brass Ball.
- Quarter Turn, Lever Operated.
- Chrome Finish.

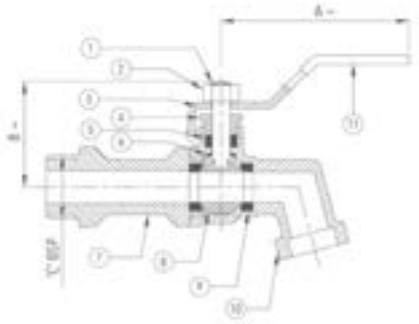


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

Suitable For
Water

Materials

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



Sizes / Dimensions

Size (Inches)	Size (mm)	A ~	B ~	C
1/2	15	115	34	1/2″

~ ±10

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1024A Forged Brass Ball Bib Cock with Hose Union (Chrome Plated)

Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Provided with Chrome Plated Brass Ball.
- Sturdy Hose Union provided.
- Chrome Finish.

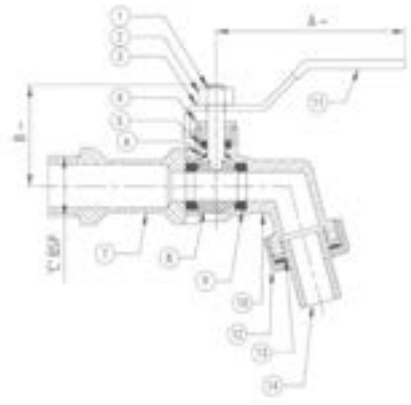


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Stem	Forged Brass	IS 6912 Gr. FLB	1
2	Nut	Brass (Chrome Plated)	– – –	1
3	Lever	Mild Steel	– – –	1
4	Gland	Forged Brass	IS 6912 Gr. FLB	1
5	Gland Packing	PTFE	– – –	1
6	Thrust Washer	PTFE	– – –	1
7	Adaptor	Forged Brass	IS 6912 Gr. FLB	1
8	Ball	Forged Brass (Hard Chrome Plated)	IS 6912 Gr. FLB	1
9	Body Seat Ring	PTFE	– – –	2
10	Body	Forged Brass	IS 6912 Gr. FLB	1
11	Sleeve	PVC	– – –	1
12	Hose Nut	Forged Brass	IS 6912 Gr. FLB	1
13	Washer	Rubber	– – –	1
14	Hose Pipe	Forged Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ~	B ~	C
1/2	15	115	34	1/2″

~ ±10

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1031 Bronze Union Bonnet Globe Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed on Bonnet, Rising Stem.
- Provision for re-packing under pressure.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.

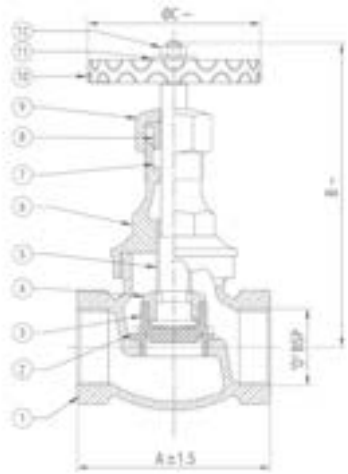


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Disc Nut	Bronze	IS 318 Gr. LTB 2	1
5	Stem	Stainless Steel	ASTM A276 Type 410	1
6	Bonnet	Bronze	IS 318 Gr. LTB 2	1
7	Gland Packing	Asbestos	– – –	–
8	Gland	Bronze	IS 318 Gr. LTB 2	1
9	Gland Nut	Bronze	IS 318 Gr. LTB 2	1
10	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
11	Washer	Carbon Steel	– – –	1
12	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4	8	60	110	70	1/4″
3/8	10	60	110	70	3/8″
1/2	15	68	117	70	1/2″
3/4	20	84	132	80	3/4″
1	25	95	148	86	1″
1 1/4	32	106	176	102	1 1/4″
1 1/2	40	120	188	115	1 1/2″
2	50	146	216	127	2″
2 1/2	65	180	248	170	2 1/2″
3	80	200	270	170	3″
4	100	248	332	190	4″

~ ±10

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1032 Bronze Union Bonnet Globe Valve (Flanged)

Salient Features

- Flanged Ends to BS 10 Table ‘F’.
- Screwed on Bonnet, Rising Stem.
- Provision for re-packing under pressure.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.

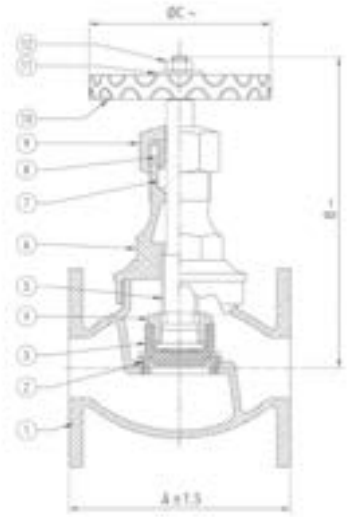


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Disc Nut	Bronze	IS 318 Gr. LTB 2	1
5	Stem	Stainless Steel	ASTM A276 Type 410	1
6	Bonnet	Bronze	IS 318 Gr. LTB 2	1
7	Gland Packing	Asbestos	– – –	–
8	Gland	Bronze	IS 318 Gr. LTB 2	1
9	Gland Nut	Bronze	IS 318 Gr. LTB 2	1
10	Hand Wheel	Cast Iron	IS 210 Gr. FG 200	1
11	Washer	Carbon Steel	– – –	1
12	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1/2	15	82	117	70
3/4	20	96	132	80
1	25	112	148	86
1 1/4	32	119	176	102
1 1/2	40	132	188	115
2	50	157	216	127
2 1/2	65	185	248	170
3	80	213	270	170
4	100	248	332	190

~ ±10

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1033 Bronze Globe Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Designed sheet metal handwheel for a firm grip and convenient operation.

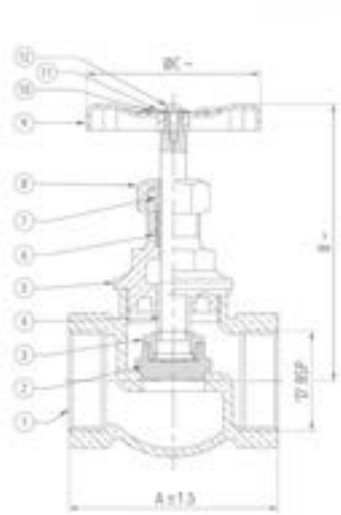


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

Suitable For
Water, Oil
*Also available with Open-Shut Indicator & Locking Device and with PTFE Seating, at a nominal extra price.

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	Disc Nut	Bronze	IS 318 Gr. LTB 2	1
4	Stem	Forged Brass	IS 6912 Gr. FLB	1
5	Bonnet	Bronze	IS 318 Gr. LTB 2	1
6	Gland Packing	PTFE	– – –	–
7	Gland	Forged Brass	IS 6912 Gr. FLB	1
8	Gland Nut	Forged Brass	IS 6912 Gr. FLB	1
9	Handwheel	Sheet Metal (Powder Coated)	– – –	1
10	Name Plate	Aluminium	– – –	1
11	Washer	Carbon Steel (Zinc Plated)	– – –	1
12	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/4	8	47	67	50	1/4″
3/8	10	50	70	50	3/8″
1/2	15	60	90	60	1/2″
3/4	20	70	105	65	3/4″
1	25	80	115	70	1″
1 1/4	32	95	127	80	1 1/4″
1 1/2	40	110	138	90	1 1/2″
2	50	125	162	110	2″
2 1/2	65	160	183	115	2 1/2″
3	80	180	207	140	3″
4	100	216	250	160	4″

~ ±10

NOTE : 1. For size 8 & 10 part number 2 and 3 is not applicable.
2. For size 15 and 20 part number 3 is not applicable.

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1034 Bronze Globe Valve (Flanged)

Salient Features

- Flanged Ends to IS 778.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Designed sheet metal handwheel for a firm grip and convenient operation.

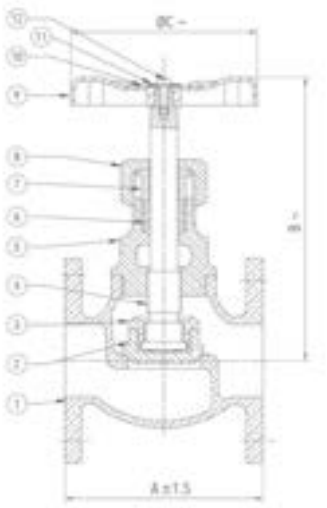


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

Suitable For
Water, Oil
*Also available with Open-Shut Indicator & Locking Device and with PTFE Seating, at a nominal extra price.

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	Disc Nut	Bronze	IS 318 Gr. LTB 2	1
4	Stem	Forged Brass	IS 6912 Gr. FLB	1
5	Bonnet	Bronze	IS 318 Gr. LTB 2	1
6	Gland Packing	PTFE	– – –	–
7	Gland	Forged Brass	IS 6912 Gr. FLB	1
8	Gland Nut	Forged Brass	IS 6912 Gr. FLB	1
9	Handwheel	Sheet Metal (Powder Coated)	– – –	1
10	Name Plate	Aluminium	– – –	1
11	Washer	Carbon Steel (Zinc Plated)	– – –	1
12	Screw / Bolt	Carbon Steel (Zinc Plated)	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1/2	15	75	90	60
3/4	20	85	105	65
1	25	95	115	70
1 1/4	32	110	127	80
1 1/2	40	120	138	90
2	50	145	162	110
2 1/2	65	165	183	115
3	80	185	207	140
4	100	216	250	160

~ ±10

NOTE: For size 15 and 20 part number 3 is not applicable.

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1035 Bronze Gate Valve (Screwed)

Salient Features



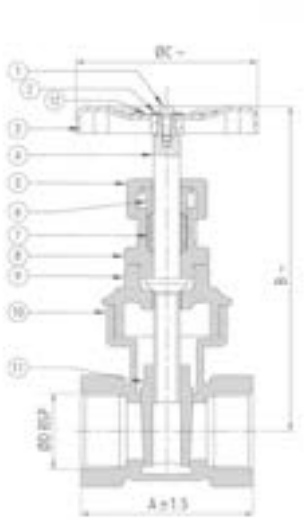
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Provision for re-packing under pressure.

Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°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)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Power Coated)	– – –	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	– – –	–
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	60	1/2″
3/4	20	60	117	65	3/4″
1	25	70	132	70	1″
1 1/4	32	80	150	80	1 1/4″
1 1/2	40	90	165	90	1 1/2″
2	50	100	190	110	2″
2 1/2	65	105	232	115	2 1/2″
3	80	125	268	140	3″
4	100	160	332	160	4″

~ ±10

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1035A Bronze Gate Valve Class-2 (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.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-2.
- Provision for re-packing under pressure.

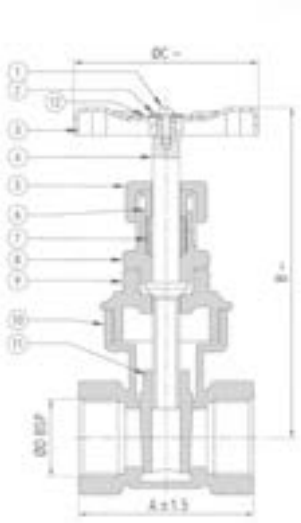


Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat & Back Seat : 1.6 MPa
Maximum Working Temperature : 45°C

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)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Powder Coated)	– – –	1
4	Stem	Forged Brass	IS 6912 Gr. FLB	1
5	Gland Nut	Forged Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB 2	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	60	1/2″
3/4	20	60	117	65	3/4″
1	25	70	132	70	1″
1 1/4	32	80	150	80	1 1/4″
1 1/2	40	90	165	90	1 1/2″
2	50	100	190	110	2″
2 1/2*	65*	105	232	117	2 1/2″
3*	80*	125	268	140	3″
4*	100*	160	332	160	4″

~ ±10

*Gland Nut for Size 65, 80 and 100 is of Bronze.

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1035B Bronze Gate Valve Rising Stem (Screwed)

Salient Features

- Screwed female ends to IS 554 / BS21 / ISO – 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat, Solid Wedge.
- Provision for Re-packing under pressure.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium quality PTFE Gland Packing.

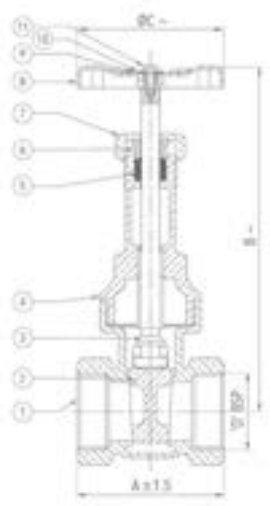


Test Pressure(Hydrostatic) Class-1 :
Shell : 1.5 Mpa
Seat & Back Seat : 1.0 Mpa
Maximum Working Temperature : 45°C

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	Wedge	Bronze	IS 318 Gr. LTB 2	1
3	Stem	Forged Brass	IS 6912 Gr. LTB 2	1
4	Bonnet	Bronze	IS 318 Gr. LTB 2	1
5	Gland Packing	PTFE	– – –	–
6	Gland	Forged Brass	IS 6912 Gr. FLB	1
7	Gland Nut	Forged Brass	IS 6912 Gr. FLB	–
8	Hand Wheel	Sheet Metal (Powder Coated)	– – –	1
9	Name Plate	Aluminium	– – –	1
10	Washer	Carbon Steel (Zinc Plated)	– – –	1
11	Screw/Bolt	Carbon Steel (Zinc Plated)	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/2	15	60	120	60	1/2″
3/4	20	60	128	65	3/4″
1	25	70	150	70	1″
1 1/4	32	80	188	80	1 1/4″
1 1/2	40	90	214	90	1 1/2″
2	50	100	243	110	2″
2 1/2	65	105	310	115	2 1/2″
3	80	125	360	140	3″
4	100	160	432	160	4″

~ ±10

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1035C Bronze Gate Valve Rising Stem, Class-2 (Screwed)

Salient Features

- Screwed female ends to IS 554 / BS21 / ISO – 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat, Solid Wedge.
- Provision for Re-packing under pressure.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium quality PTFE Gland Packing.

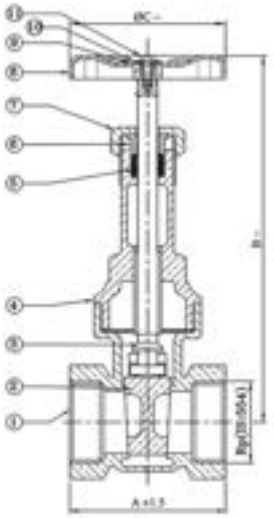


Test Pressure(Hydrostatic) Class-2 :
Shell : 2.4 Mpa
Seat & Back Seat : 1.6 Mpa
Maximum Working Temperature : 225°C

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	Wedge	Bronze	IS 318 Gr. LTB 2	1
3	Stem	Forged Brass	IS 6912 Gr. LTB 2	1
4	Bonnet	Bronze	IS 318 Gr. LTB 2	1
5	Gland Packing	PTFE	– – –	–
6	Gland	Forged Brass	IS 6912 Gr. FLB	1
7	Gland Nut	Forged Brass	IS 6912 Gr. FLB	–
8	Hand Wheel	Sheet Metal (Powder Coated)	– – –	1
9	Name Plate	Aluminium	– – –	1
10	Washer	Carbon Steel (Zinc Plated)	– – –	1
11	Screw/Bolt	Carbon Steel (Zinc Plated)	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/2	15	60	120	60	1/2″
3/4	20	60	128	65	3/4″
1	25	70	150	70	1″
1 1/4	32	80	188	80	1 1/4″
1 1/2	40	90	214	90	1 1/2″
2	50	100	243	110	2″

~ ±10

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1036 Bronze Gate Valve (Flanged)

Salient Features



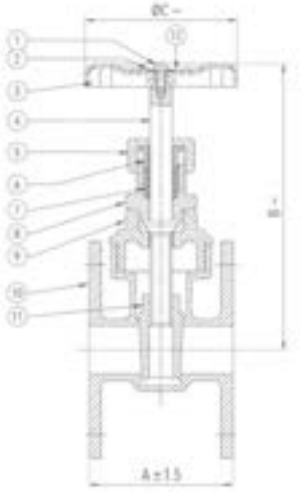
- Flanged Ends to IS 778.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Provision for re-packing under pressure.
- Design Standard IS 778, Class-1.

Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°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)	– – –	1
2	Washer	Carbon Steel (Zinc Plated)	– – –	1
3	Handwheel	Sheet Metal (Power Coated Paint)	– – –	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	– – –	–
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 ~
1/2	15	72	105	60
3/4	20	76	117	65
1	25	90	132	70
1 1/4	32	100	140	80
1 1/2	40	110	172	90
2	50	120	190	110
2 1/2	65	140	214	115
3	80	150	268	140
4	100	190	323	160

~ ±10

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1037 Bronze Vertical Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design.
- Meant for Vertical Lines Only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

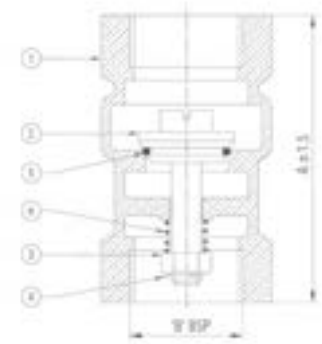


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

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	Nut	Brass	IS 319 Gr. 2 (Half Hard)	1
4	Split Pin	Brass	– – –	1
5	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
6	Spring	Stainless Steel	Type 304	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	65	1/2″
3/4	20	70	3/4″
1	25	75	1″
1 1/4	32	85	1 1/4″
1 1/2	40	95	1 1/2″
2	50	110	2″

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1038 Bronze Horizontal Check Valve (Screwed)

Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, meant for Horizontal Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

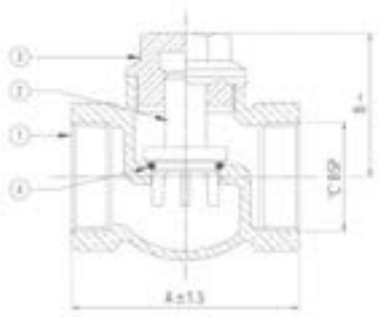


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

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 / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2*	15*	60	40	1/2″
3/4*	20*	70	45	3/4″
1*	25*	80	55	1″
1 1/4	32	95	59	1 1/4″
1 1/2	40	110	65	1 1/2″
2	50	125	74	2″
2 1/2	65	160	85	2 1/2″
3	80	180	105	3″
4	100	216	131	4″

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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1039 Bronze Horizontal Check Valve (Flanged)

Salient Features

- Flanged Ends to IS 778.
- Screwed in Bonnet, 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.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

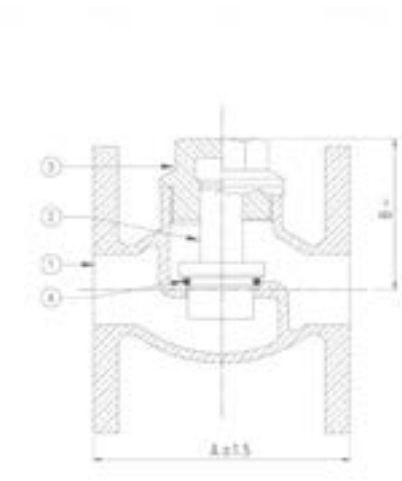


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

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 / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2*	15*	75	40
3/4*	20*	85	45
1*	25*	95	55
1 1/4	32	110	59
1 1/2	40	120	65
2	50	145	74
2 1/2	65	165	85
3	80	185	105
4	100	216	131

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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1040A Bronze Compact Pressure Reducing Valve (Screwed)

Salient Features



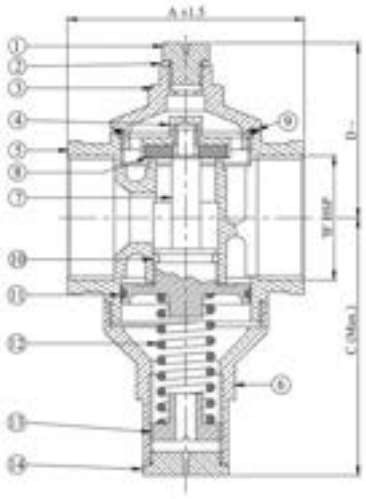
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install a pressure gauge of 1/4" B.S.P size to measure/monitor 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 rubber, hence ensuring absolute zero health hazard.

Test Pressure (Hydrostatic) :
Shell : 35 bar
Maximum Upstream Pressure : 25 bar
Maximum Working Temperature : 90°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	Forged Brass	IS 6912 Gr. FLB	1
2	O – Ring	Nitrile Rubber	IS 5192 – 1	1
3	Bonnet	Bronze	IS 318 Gr. LTB 2	1
4	Disc Holder	Bronze	IS 318 Gr. LTB 2	1
5	Body	Bronze	IS 318 Gr. LTB 2	1
6	Chamber	Bronze	IS 318 Gr. LTB 2	1
7	Piston	Bronze	IS 318 Gr. LTB 2	1
8	Disc	Nitrile Rubber	IS 5192 – 1	1
9	O – Ring / Gasket	PTFE (Gasket)	– – –	1
10	O – Ring	Nitrile Rubber	IS 5192 – 1	1
11	O – Ring	Nitrile Rubber	IS 5192 – 1	1
12	Spring	Spring Steel	EN 47 Gr. B	1
13	Adjustable Ring	Bronze	IS 318 Gr. LTB 2	1
14	Cap / Locking Ring	Bronze (Locking Ring)	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C (Max.)	D ~
2 1/2	65	135	2 1/2″	160	97
3	80	160	3″	170	111
4	100	160	4″	185	125

~ ±10

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1040B Forged Brass Compact Pressure Reducing Value (Screwed)

Salient Features



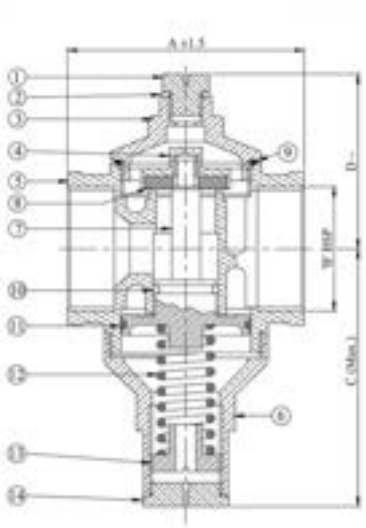
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install a pressure gauge of 1/4" B.S.P size to measure/monitor 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 rubber, hence ensuring absolute zero health hazard.

Test Pressure (Hydrostatic) :
Shell : 35 bar
Maximum Upstream Pressure : 25 bar
Maximum Working Temperature : 90°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	Forged 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	Disc Holder	Forged Brass	IS 6912 Gr. FLB	1
5	Body	Forged Brass	IS 6912 Gr. FLB	1
6	Chamber	Forged Brass	IS 6912 Gr. FLB	1
7	Piston	Forged Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB 2	1
8	Disc	Nitrile Rubber	IS 5192 – 1	1
9	O – Ring / Gasket	Nitrile Rubber (O – Ring)	IS 5192 – 1	1
10	O – Ring	Nitrile Rubber	IS 5192 – 1	1
11	O – Ring	Nitrile Rubber	IS 5192 – 1	1
12	Spring	Spring Steel	EN 47 Gr. B	1
13	Adjustable Ring	Forged Brass	IS 6912 Gr. FLB	1
14	Cap / Locking Ring	PVC (Cap)	IS 15225	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C (Max.)	D ~
1/2	15	62	1/2″	88	64
3/4	20	62	3/4″	88	64
1	25	86	1″	105	71
1 1/4	32	91	1 1/4″	110	75
1 1/2	40	91	1 1/2″	110	75
2	50	91	2″	115	82

~ ±10

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1041 Bronze Globe Steam Stop Valve (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Straight Pattern, Screwed in Bonnet, Inside Screw, Rising Stem.
- Provision for re-packing under pressure.
- Handwheel Operated.
- Premium Quality lubricated Gland Packing.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Heat treated body seat ring and disc for extended life.

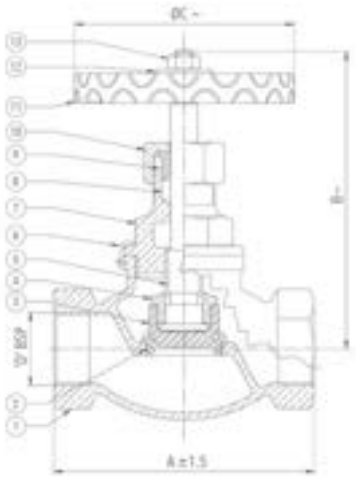


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (IV) Gr. B	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Disc Nut	Bronze	IBR 282 (a) (IV) Gr. B	1
5	Stem	Stainless Steel	ASTM A276 Type 410	1
6	Safety Lock	Brass Sheet	IS 410	1
7	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B	1
8	Gland Packing	Asbestos	IS 4687	–
9	Gland	Bronze	IBR 282 (a) (IV) Gr. B	1
10	Gland Nut	Bronze	IBR 282 (a) (IV) Gr. B	1
11	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
12	Washer	Carbon Steel	– – –	1
13	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~	D
1/2	15	83	115	90	1/2″
3/4	20	95	115	90	3/4″
1	25	111	130	102	1″
1 1/4	32	133	160	127	1 1/4″
1 1/2	40	152	168	127	1 1/2″
2	50	178	185	150	2″

~ ±10

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1042 Bronze Globe Steam Stop Valve (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Straight Pattern, Screwed in Bonnet, Inside Screw, Rising Stem.
- Provision for re-packing under pressure.
- Handwheel Operated.
- Premium Quality lubricated Gland Packing.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Heat treated body seat ring and disc for extended life.

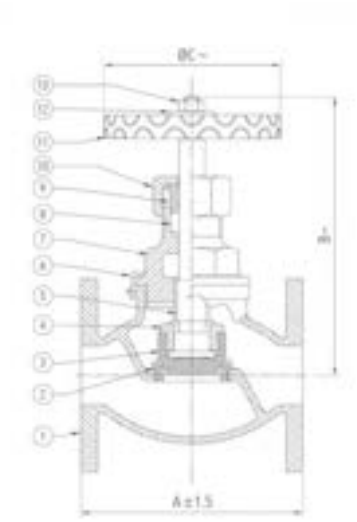


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (IV) Gr. B	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Disc Nut	Bronze	IBR 282 (a) (IV) Gr. B	1
5	Stem	Stainless Steel	ASTM A276 Type 410	1
6	Safety Lock	Brass Sheet	IS 410	1
7	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B	1
8	Gland Packing	Asbestos	IS 4687	–
9	Gland	Bronze	IBR 282 (a) (IV) Gr. B	1
10	Gland Nut	Bronze	IBR 282 (a) (IV) Gr. B	1
11	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
12	Washer	Carbon Steel	– – –	1
13	Nut	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1/2	15	102	115	90
3/4	20	114	115	90
1	25	127	130	102
1 1/4	32	140	160	127
1 1/2	40	152	168	127
2	50	178	185	150

~ ±10

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1043 Bronze Horizontal Lift Check Valve (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

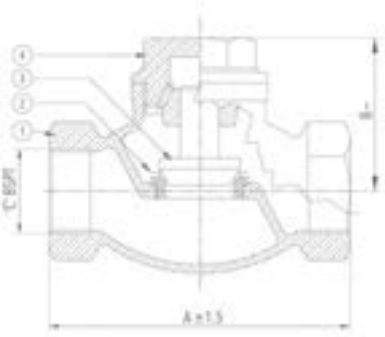


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Cover	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2	15	83	55	1/2″
3/4	20	95	55	3/4″
1	25	111	65	1″
1 1/4	32	133	78	1 1/4″
1 1/2	40	152	82	1 1/2″
2	50	178	91	2″

~ ±10

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1044 Bronze Horizontal Lift Check Valve (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

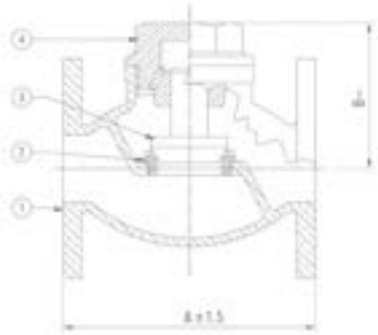


Test Pressure (Hydrostatic) :
Shell 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
3	Disc	Stainless Steel	ASTM A276 Type 410	1
4	Cover	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	102	55
3/4	20	114	55
1	25	127	65
1 1/4	32	140	78
1 1/2	40	152	82
2	50	178	91

~ ±10

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1045 Bronze Vertical Lift Check Valve (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

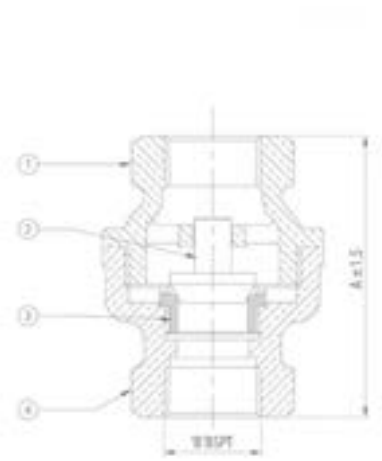


Test Pressure (Hydrostatic) :
Shell 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Outlet Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Disc	Stainless Steel	ASTM A276 Type 410	1
3	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
4	Inlet Body	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	73	1/2″
3/4	20	76	3/4″
1	25	90	1″
1 1/4	32	114	1 1/4″
1 1/2	40	127	1 1/2″
2	50	152	2″

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1046 Bronze Vertical Lift Check Valve (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

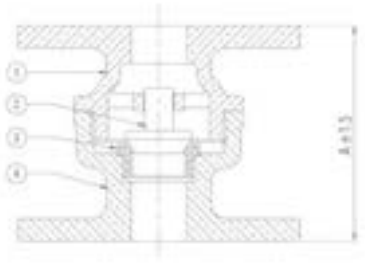


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Outlet Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Disc	Stainless Steel	ASTM A276 Type 410	1
3	Body Seat Ring	Stainless Steel	ASTM A276 Type 410	1
4	Inlet Body	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5
1/2	15	70
3/4	20	76
1	25	95
1 1/4	32	102
1 1/2	40	123
2	50	140

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1047 Bronze Asbestos Packed Water Level Gauge (Screwed)

Salient Features

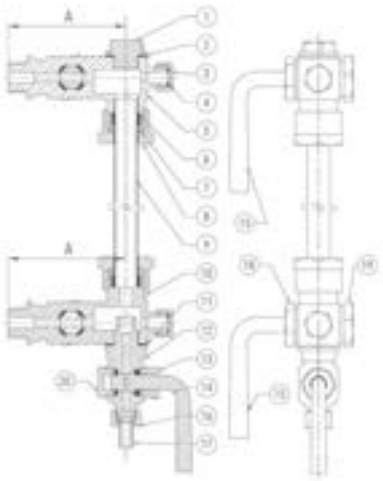


- Screwed Male End to BSP.
- Asbestos Gland Packing.
- Set available for both, Right Hand and Left Hand operations.
- Polished Body.

Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig).
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
3	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
4	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	2
5	Upper Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
6	Gland Packing	Graphite Asbestos	IS 4687	–
7	Gland	Bronze	IBR 282 (a) (iv) Gr. B	2
8	Gland Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
9	Glass Tube*	Toughened Glass	– – –	1
10	Lower Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
11	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
12	Drain Valve	Bronze	IBR 282 (a) (iv) Gr. B	1
13	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
14	Handle	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Handle	Bronze	IBR 282 (a) (iv) Gr. B	2
16	Union Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
17	Tail Pipe	Bronze	IBR 282 (a) (iv) Gr. B	1
18	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
19	Bottom Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
20	Bottom Nut	Bronze	IBR 282 (a) (iv) Gr. B	1

* Glass Tube is not provided with this product.

Sizes / Dimensions

Size (Inches)	Size (mm)	A
1/2	15	102
3/4	20	125

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1048 Bronze Asbestos Packed Water Level Gauge (Flanged)

Salient Features

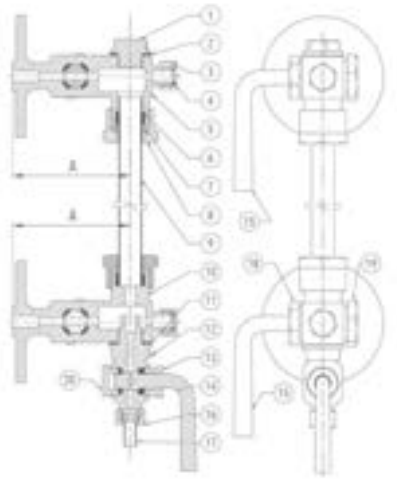


- Flanged End to BS 10 Table 'F'.
- Asbestos Gland Packing.
- Set available for both, Right Hand and Left Hand operations.
- Polished Body.

Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
3	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
4	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	2
5	Upper Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
6	Gland Packing	Graphite Asbestos	IS 4687	–
7	Gland	Bronze	IBR 282 (a) (iv) Gr. B	2
8	Gland Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
9	Glass Tube*	Toughened Glass	– – –	1
10	Lower Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
11	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
12	Drain Valve	Bronze	IBR 282 (a) (iv) Gr. B	1
13	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
14	Handle	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Handle	Bronze	IBR 282 (a) (iv) Gr. B	2
16	Union Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
17	Tail Pipe	Bronze	IBR 282 (a) (iv) Gr. B	1
18	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
19	Bottom Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
20	Bottom Nut	Bronze	IBR 282 (a) (iv) Gr. B	1

* Glass Tube is not provided with this product.

Sizes / Dimensions

Size (Inches)	Size (mm)	A
1/2	15	77
3/4	20	96

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1049 Bronze Sleeve Packed Water Level Gauge (Screwed)

Salient Features

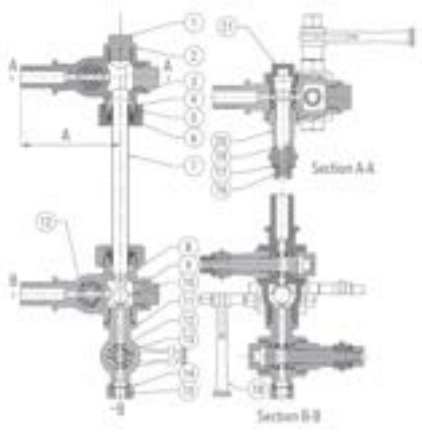


- Screwed Male End to BSP.
- Automatic Shut Off Device in Water Arm.
- Set available for both, Right Hand and Left Hand operations.
- Premium Quality Sleeve, Reinforced by metallic eye holes provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Bronze	IBR 282 (a) (iv) Gr. B	2
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	4
3	Upper Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
4	Cone	Synthetic Rubber	IS 5192-1	2
5	Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
6	Washer	Bronze	IBR 282 (a) (iv) Gr. B	2
7	Glass Tube*	Toughened Glass	– – –	1
8	Lower Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
9	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1
10	Ball	Stainless Steel	ASTM A 276 Type 304	1
11	Drain Valve	Bronze	IBR 282 (a) (iv) Gr. B	1
12	Sleeve Bush	Bronze	IBR 282 (a) (iv) Gr. B	6
13	Sleeve	Moulded Asbestos	– – –	3
14	Union Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Nipple	Bronze	IBR 282 (a) (iv) Gr. B	1
16	Nut	Carbon Steel	– – –	3
17	Name Plate	Brass / Aluminium	– – –	3
18	Handle	Bronze	IBR 282 (a) (iv) Gr. B	3
19	Stem	Stainless Steel	ASTM A 276 Type 410	3
20	Bonnet	Bronze	IBR 282 (a) (iv) Gr. B	3
21	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	3

* Glass Tube is not provided with this product.

Sizes / Dimensions

Size (Inches)	Size (mm)	A
1/2	15	118
3/4	20	118

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1050 Bronze Sleeve Packed Water Level Gauge (Flanged)

Salient Features

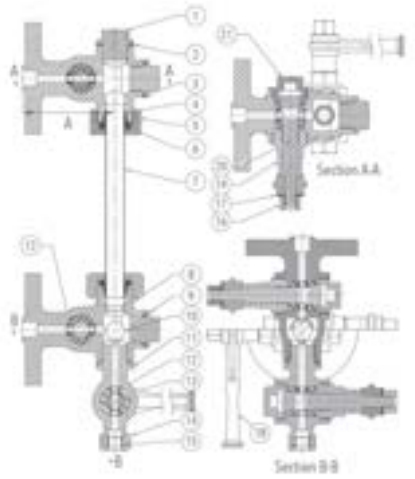


- Flanged End to BS 10 Table 'H'.
- Automatic Shut Off Device in Water Arm.
- Set available for both, Right Hand and Left Hand operations.
- Premium Quality Sleeve, Reinforced by metallic eye holes provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Plug	Bronze	IBR 282 (a) (iv) Gr. B	2
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	4
3	Upper Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
4	Cone	Synthetic Rubber	IS 5192-1	2
5	Nut	Bronze	IBR 282 (a) (iv) Gr. B	2
6	Washer	Bronze	IBR 282 (a) (iv) Gr. B	2
7	Glass Tube*	Toughened Glass	– – –	1
8	Lower Arm	Bronze	IBR 282 (a) (iv) Gr. B	1
9	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1
10	Ball	Stainless Steel	ASTM A 276 Type 304	1
11	Drain Valve	Bronze	IBR 282 (a) (iv) Gr. B	1
12	Sleeve Bush	Bronze	IBR 282 (a) (iv) Gr. B	6
13	Sleeve	Moulded Asbestos	– – –	3
14	Union Nut	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Nipple	Bronze	IBR 282 (a) (iv) Gr. B	1
16	Nut	Carbon Steel	– – –	3
17	Name Plate	Brass / Aluminium	– – –	3
18	Handle	Bronze	IBR 282 (a) (iv) Gr. B	3
19	Stem	Stainless Steel	ASTM A276 Type 410	3
20	Bonnet	Bronze	IBR 282 (a) (iv) Gr. B	3
21	Lock Nut	Bronze	IBR 282 (a) (iv) Gr. B	3

* Glass Tube is not provided with this product.

Sizes / Dimensions

Size (Inches)	Size (mm)	A
1/2	15	80
3/4	20	92

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1052 Bronze Parallel Slide Blow Off Valve (Flanged)

Salient Features

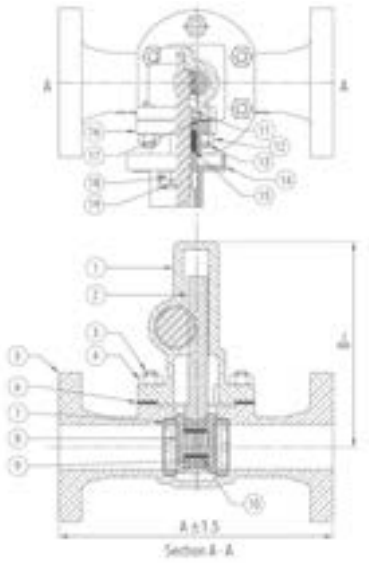


- Flanged Ends to BS 10 Table 'H'.
- Maintains fluid tightness and easy in operation because of sliding action of discs.
- Discs are kept in close contact with body rings by means of a spring when the valve is under pressure.
- Premium Quality lubricated Gland Packing.
- Bolted Bonnet.
- Valve is operated by means of Rack and Pinion arrangement, in such a manner that valve is opened fully with half turn of the box key.
- Gland forms a locking guard which prevents removal of the key unless the valve is closed.

Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Bonnet	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Rack	Bronze	IBR 282 (a) (iv) Gr. B	1
3	Studs	Alloy Steel	ASTM A193 Gr. B7	As Reqd.
4	Nuts	H.T Steel	ASTM A194 Gr. 2H	As Reqd.
5	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
6	Gasket	Steam Joining Sheet	IS 2712 Gr. W/3	1
7	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410	1
8	Male Disc	Stainless Steel	ASTM A 276 Type 410	1
9	Female Disc	Stainless Steel	ASTM A 276 Type 410	1
10	Spring	Stainless Steel	IS 4454 Part 4 Gr. 2	1
11	Pinion	Stainless Steel	ASTM A 276 Type 410	1
12	Nuts	H.T. Steel	ASTM A194 Gr. 2H	As Reqd.
13	Studs	Alloy Steel	ASTM A193 Gr. B7	As Reqd.
14	Gland	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Gland Packing	Graphited Asbestos	IS 4687	–
16	Stuffing Box	Bronze	IBR 282 (a) (iv) Gr. B	1
17	Gasket	Steam Joining Sheet	IS 2712 Gr. W/3	1
18	Nuts	H.T. Steel	ASTM A194 Gr. 2H	As Reqd.
19	Studs	Alloy Steel	ASTM A193 Gr. B7	As Reqd.

Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1	25	169	138
1 1/4	32	178	157
1 1/2	40	190	204
2	50	206	206

~ ±10

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1053 Bronze Y-Type Strainer (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

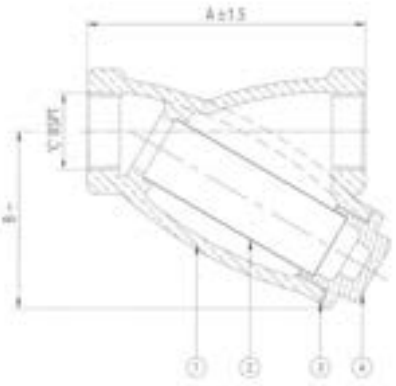


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
4	Cover	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2	15	76	56	1/2″
3/4	20	98	67	3/4″
1	25	133	97	1″
1 1/4	32	152	108	1 1/4″
1 1/2	40	178	116	1 1/2″
2	50	222	140	2″

~ ±10

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1053A Forged Brass Y-Type Strainer (Screwed) PN 25

Salient Features

- Screwed Female Ends to BSP.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

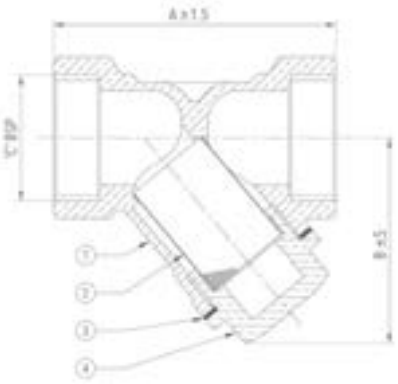


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure : 25 kg/cm²g (350 psig)

Suitable For
Steam*, Water, Oil, Air*, Gases*
*Suitable for pressure upto 6.9 kg/cm²g (100 psig)

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Forged Brass	IS 6912 Gr. FLB	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	PTFE	BS EN 12086-1	1
4	Cover	Forged Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ±5	C
1/2	15	54	45	1/2″
3/4	20	67.5	56	3/4″
1	25	75	56	1″
1 1/4	32	94	73	1 1/4″
1 1/2	40	100	80	1 1/2″
2	50	126	99	2″

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1054 Bronze Y-Type Strainer (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

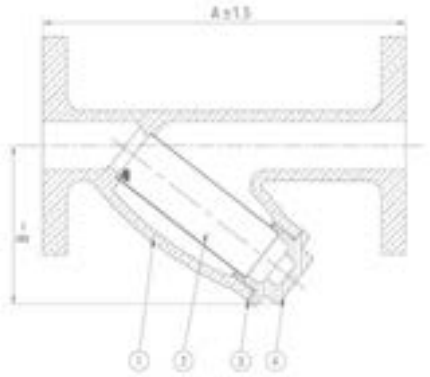


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
4	Cover	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	136	68
3/4	20	140	85
1	25	162	110
1 1/4	32	178	120
1 1/2	40	203	145
2	50	203	188

~ ±10

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1055 Bronze Thermodynamic Steam Trap (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Provided with integral strainer for trouble free service.
- Stainless Steel (Type 304) Ø0.5 mm perforated sheet screen.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

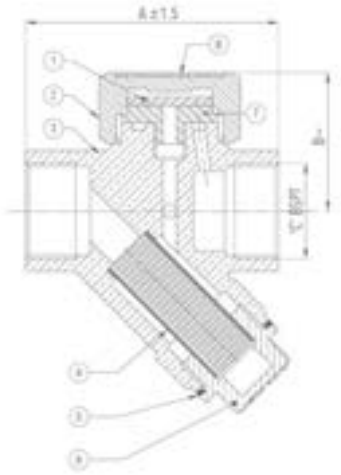


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Disc	Stainless Steel	ASTM A 276 Type 410	1
2	Cover	Stainless Steel	ASTM A 276 Type 410	1
3	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
4	Screen (Ø0.5 mm Perforation)	Stainless Steel	Type 304	1
5	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
6	Plug	Stainless Steel	ASTM A 276 Type 410	1
7	Seat	Stainless Steel	ASTM A 276 Type 410	1
8	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2	15	78	52	1/2″
3/4	20	96	52	3/4″
1	25	120	63	1″

~ ±10

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1063 Bronze Fusible Plug (One Piece Design)

Salient Features

- Screwed Male End to BSPT.
- One Piece Design.
- Premium Quality Fusible Alloy used.

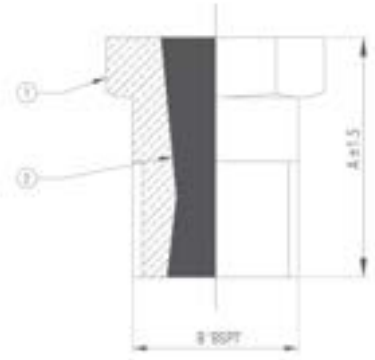


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Fusible Alloy	Pb-Sn-Alloy	IBR 333	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	32	1/2″
3/4	20	38	3/4″
1	25	44	1″

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1064 Bronze Fusible Plug (Two Piece Design)

Salient Features

- Screwed Male End to BSPT.
- Two Piece Design.
- Premium Quality Fusible Alloy used.

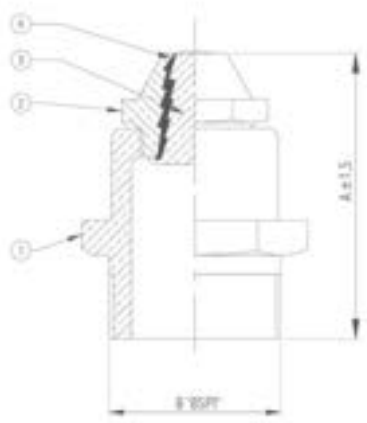


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

Suitable For
Steam

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IBR 282 (a) (iv) Gr. B	1
2	Cone	Bronze	IBR 282 (a) (iv) Gr. B	1
3	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1
4	Fusible Alloy	Pb-Sn-ALLOY	IBR 333	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	52	1/2″
3/4	20	56	3/4″
1	25	70	1″
1 1/4	32	82	1 1/4″
1 1/2	40	88	1 1/2″
2	50	102	2″

NOTE : Spare cone also available for this product as per our Price List Article No. 1064A.

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1065 Cast Iron Globe Steam Stop Valve Straight Pattern (Flanged)

Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Straight Pattern, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Provision for re-packing under pressure.
- Minimum pressure drop inside the body due to streamlined body design.
- High lift of the seat to avoid any obstruction in the flow.
- Sturdy and comparatively bigger sized wheel provided to give sufficient torque for easy operation.

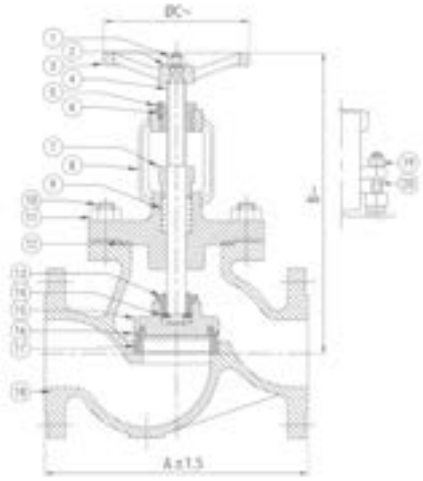


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Nut	Carbon Steel	– – –	1
2	Washer	Carbon Steel	– – –	1
3	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
4	Stem	Stainless Steel	ASTM 276 Type 410	1
5	Yoke Bush	Bronze	IS 318 Gr. LTB 2	1
6	Locking Screw	Carbon Steel	– – –	1
7	Gland Flange	Cast Iron	IBR 86-93 Gr. A	1
8	Bonnet	Cast Iron	IBR 86-93 Gr. A	1
9	Gland Packing	Braided Graphited Asbestos	IS 4687	–
10	Studs	Carbon Steel	IS 1367	As Reqd.
11	Nuts	Carbon Steel	IS 1367	As Reqd.
12	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
13	Stem Nut	Stainless Steel	ASTM A 276 Type 410	1
14	Stem Ring	Stainless Steel	ASTM A 276 Type 410	1
15	Disc	Cast Iron	IBR 86-93 Gr. A	1
16	Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
17	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
18	Body	Cast Iron	IBR 86-93 Gr. A	1
19	Nuts	Carbon Steel	IS 1367	2
20	Bolts	Carbon Steel	IS 1367	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B~	ØC~
1/2	15	130	166	96
3/4	20	150	166	96
1	25	160	180	118
1 1/4	32	180	196	118
1 1/2	40	200	228	150
2	50	230	250	150
2 1/2	65	290	280	180

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Size (Inches)	Size (mm)	A ±1.5	B~	ØC~
3	80	310	295	200
4	100	350	335	235
5	125	400	409	285
6	150	480	470	350
8*	200	600	580	435

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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1066 Cast Iron Globe Steam Stop Valve Angle Pattern (Flanged)

Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Angle Pattern, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Provision for re-packing under pressure.
- Minimum pressure drop inside the body due to streamlined body design.
- High lift of the seat to avoid any obstruction in the flow.
- Sturdy and comparatively bigger sized wheel provided to give sufficient torque for easy operation.

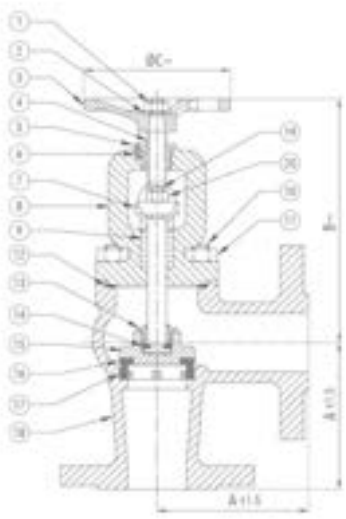


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Nut	Carbon Steel	– – –	1
2	Washer	Carbon Steel	– – –	1
3	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
4	Stem	Stainless Steel	ASTM 276 Type 410	1
5	Yoke Bush	Bronze	IS 318 Gr. LTB 2	1
6	Locking Screw	Carbon Steel	– – –	1
7	Gland Flange	Cast Iron	IBR 86-93 Gr. A	1
8	Bonnet	Cast Iron	IBR 86-93 Gr. A	1
9	Gland Packing	Braided Graphited Asbestos	IS 4687	–
10	Studs	Carbon Steel	IS 1367	As Reqd.
11	Nuts	Carbon Steel	IS 1367	As Reqd.
12	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
13	Stem Nut	Stainless Steel	ASTM A 276 Type 410	1
14	Stem Ring	Stainless Steel	ASTM A 276 Type 410	1
15	Disc	Cast Iron	IBR 86-93 Gr. A	1
16	Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
17	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
18	Body	Cast Iron	IBR 86-93 Gr. A	1
19	Nuts	Carbon Steel	IS 1367	2
20	Bolts	Carbon Steel	IS 1367	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A±1.5	B ~	ØC ~
1/2	15	90	150	96
3/4	20	95	154	96
1	25	100	162	118
1 1/4	32	105	176	118
1 1/2	40	115	204	150
2	50	125	223	150
2 1/2	65	145	250	180

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Size (Inches)	Size (mm)	A±1.5	B ~	ØC ~
3	80	155	275	200
4	100	175	305	235
6	150	225	419	350
8*	200	275	475	435

***** Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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1067 Cast Iron Horizontal Lift Check Valve Straight Pattern (Flanged)

Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Straight Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

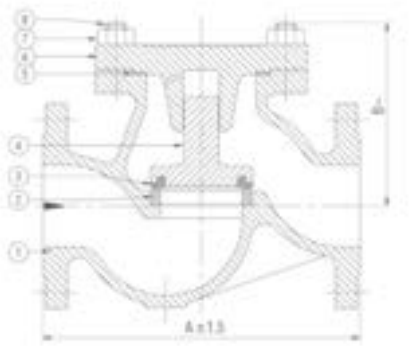


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IBR 86-93 Gr. A	1
2	Body Seat Ring	Stainless Steel	ASTMA 276 Type 410 / ASTMA 182 Gr. F6a	1
3	Disc Ring	Stainless Steel	ASTMA 276 Type 410 / ASTMA 182 Gr. F6a	1
4	Disc	Cast Iron	IBR 86-93 Gr. A	1
5	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
6	Bonnet	Cast Iron	IBR 86-93 Gr. A	1
7	Nuts	Carbon Steel	IS 1367	As Reqd.
8	Studs	Carbon Steel	IS 1367	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	130	66
3/4	20	150	70
1	25	160	76
1 1/4	32	180	85
1 1/2	40	200	102
2	50	230	114
2 1/2	65	290	123
3	80	310	140
4	100	350	154
5	125	400	200
6	150	480	230
8*	200	600	275

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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1068 Cast Iron Horizontal Lift Check Valve Angle Pattern (Flanged)

Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Angle Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

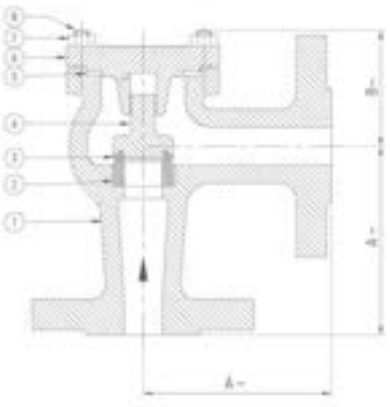


Test Pressure (Hydrostatic) :
Shell 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IBR 86-93 Gr. A	1
2	Body Seat Ring	Stainless Steel	ASTMA 276 Type 410 / ASTMA 182 Gr. F6a	1
3	Disc Ring	Stainless Steel	ASTMA 276 Type 410 / ASTMA 182 Gr. F6a	1
4	Disc	Cast Iron	IBR 86-93 Gr. A	1
5	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
6	Bonnet	Cast Iron	IBR 86-93 Gr. A	1
7	Nuts	Carbon Steel	IS 1367	As Reqd.
8	Studs	Carbon Steel	IS 1367	As Reqd



Sizes / Dimensions

Size (Inches)	Size (mm)	A ~	B ~
1/2	15	90	54
3/4	20	95	55
1	25	100	58
1 1/4	32	105	66
1 1/2	40	115	78
2	50	125	85
2 1/2	65	145	95
3	80	155	110
4	100	175	125
6	150	225	182
8*	200	275	190

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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1069 Cast Iron Y-Type Strainer (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and bonnet.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer highly efficient in performance.

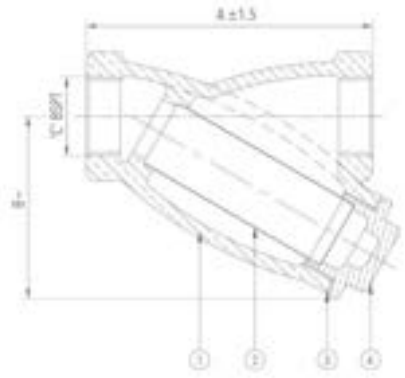


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IBR 86-93 Gr. A	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
4	Cover	Cast Iron	IBR 86-93 Gr. A	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2	15	76	71	1/2″
3/4	20	98	85	3/4″
1	25	133	95	1″
1 1/4	32	155	110	1 1/4″
1 1/2	40	178	116	1 1/2″
2	50	222	140	2″

~ ±10

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1070 Cast Iron Y-Type Strainer (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and cover.
- Drain Plug is provided to remove the accumulated foreign particles.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer extremely efficient in performance.

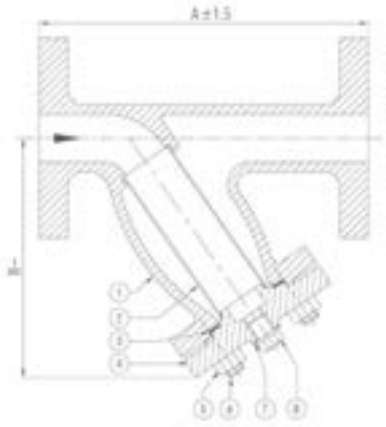


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IBR 86-93 Gr. A	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
4	Cover	Cast Iron	IBR 86-93 Gr. A	1
5	Nuts	Carbon Steel	IS 1367	As Reqd.
6	Studs	Carbon Steel	IS 1367	As Reqd.
7	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
8	Plug	Bronze	IBR 282 (a) (iv) Gr. B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	136	87
3/4	20	140	88
1	25	162	112
1 1/4	32	185	135
1 1/2	40	206	152
2	50	210	205
2 1/2	65	248	250
3	80	270	268
4	100	381	290

~ ±10

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1071 Cast Steel Globe Steam Stop Valve (Flanged)

Salient Features

- Flanged Ends to DIN 2545 PN 40.
- Straight Pattern, Outside Screw, Yoke Type, Rising Stem, Bolted Bonnet.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.
- Handwheel Operated.
- Provision for re-packing under pressure.
- Suitable for thermic fluid application also.

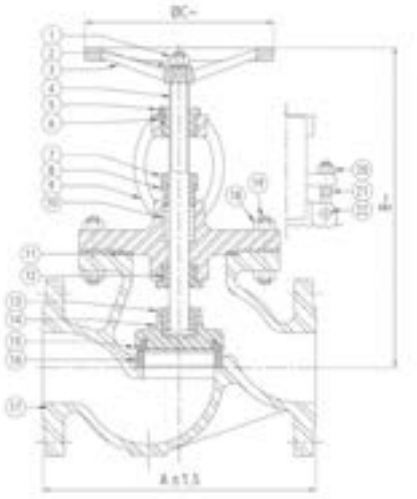


Test Pressure (Hydrostatic) :
Shell : 60 bar (870 psig)
Maximum Working Pressure : 40 bar (580 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Nut	Carbon Steel	– – –	1
2	Washer	Carbon Steel	– – –	1
3	Handwheel	S.G Iron	IS 1865 Gr. 400 / 15	1
4	Stem	Stainless Steel	ASTM A 276 Type 410	1
5	Yoke Bush	Aluminium Bronze	BS EN 1982 AB – 1	1
6	Locking Screw	Carbon Steel	IS 1367	1
7	Gland Flange	Cast Steel	IBR 73-80 Gr. B	1
8	Gland	Stainless Steel	ASTM A 276 Type 410	1
9	Bonnet	Cast Steel	IBR 73-80 Gr. B	1
10	Gland Packing	Braided Graphite	– – –	–
11	Gasket	Spiral Wound S.S (Type 316) Graphite Filled	– – –	1
12	Back Seat Bush	Aluminium Bronze	BS EN 1982 AB – 1	1
13	Stem Nut	Stainless Steel	ASTM A 276 Type 410	1
14	Disc	Cast Steel	IBR 73-80 Gr. B	1
15	Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
16	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
17	Body	Cast Steel	IBR 73-80 Gr. B	1
18	Nuts	H.T Steel	ASTM A 194 Gr. 2H	As Reqd
19	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd
20	Nuts For Eye Bolts	H.T Steel	ASTMA 194 Gr. 2H	2
21	Eye Bolts	Stainless Steel	ASTM A 182 Gr. F6a	2
22	Pins For Eye Bolts	Stainless Steel	ASTM A 276 Type 410	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1/2	15	130	190	120
3/4	20	150	190	120
1	25	160	215	150
1 1/4	32	180	230	150
1 1/2	40	200	259	180

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Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
2	50	230	272	180
2 1/2	65	290	316	200
3	80	310	341	235
4	100	350	395	295
6	150	480	500	350
8	200	600	525	435

~ ±10

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1072 Cast Steel Horizontal Lift Check Valve (Flanged)

Salient Features

- Flanged Ends to DIN 2545 PN 40.
- Bolted Cover, Straight Pattern.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to well contoured body design.
- Suitable for thermic fluid application also.

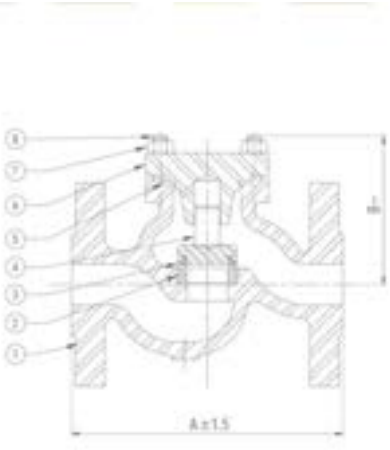


Test Pressure (Hydrostatic) :
Shell : 60 bar (870 psig)
Maximum Working Pressure : 40 bar (580 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Material	Specification	Qty.
1	Body	Cast Steel	IBR 73-80 Gr. B	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410	1
3	Disc Ring	Stainless Steel	ASTM A 276 Type 410	1
4	Disc	Cast Steel	IBR 73 – 80 Gr. B	1
5	Gasket	Spiral Wound S.S. (Type 316) Graphite Filled	– – –	1
6	Cover	Cast Steel	IBR 73-80 Gr. B	1
7	Nuts	H.T. Steel	ASTM A 194 Gr. 2H	As Reqd.
8	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	130	86
3/4	20	150	86
1	25	160	100
1 1/4	32	180	102
1 1/2	40	200	113
2	50	230	123
2 1/2	65	290	155
3	80	310	170
4	100	350	192
6	150	480	250
8	200	600	275

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1073 Cast Steel Y-Type Strainer (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'J'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and cover.
- Drain Plug to remove the accumulated foreign particles.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer more efficient.
- Suitable for thermic fluid application also.

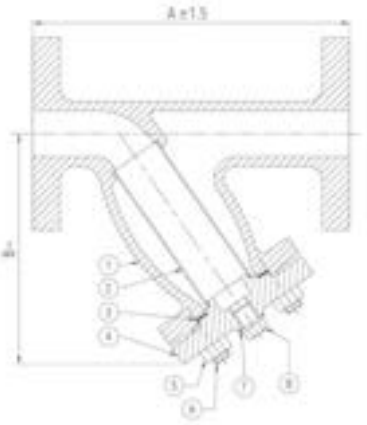


Test Pressure (Hydrostatic) : 49 kg/cm²g (700 psig)
Maximum Working Pressure (Steam) : 24.60 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Steel	IBR 73 – 80 Gr. B	1
2	Screen (Ø1 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
4	Bonnet	Cast Steel	IBR 73-80 Gr. B	1
5	Nuts	H.T Steel	ASTM A 194 Gr. 2H	As Reqd
6	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd
7	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
8	Plug	Bronze	IS 318 Gr. LTB2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1	25	181	135
1 1/4	32	222	170
1 1/2	40	260	200
2	50	276	225
2 1/2	65	286	250
3	80	296	280
4	100	403	312
6	150	476	364

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1074 Forged Steel Globe Valve, Class-800 (Standard Bore)

Salient Features

- Design Standard API 602 / BSEN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

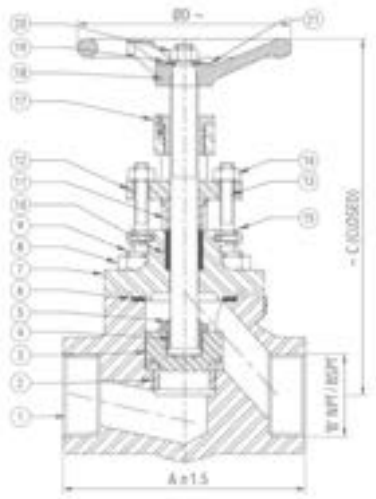


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
3	Disc	Stainless Steel	ASTM A 276 Type 410	1
4	Stem	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
5	Check Nut	Stainless Steel	ASTM A 276 Type 410	1
6	Gasket	Spiral Wound S.S (Type 316) Graphite Filled	– – –	1
7	Bonnet	Forged Carbon Steel	ASTM A 105	1
8	Bonnet Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
9	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
10	Gland Packing	Non Asbestos Graphite With Corrosion Inhibitor	– – –	
11	Gland	Stainless Steel	ASTM A 276 Type 410	1
12	Gland Flange	Carbon Steel	– – –	1
13	Eye Bolt	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
14	Nut	Alloy Steel	ASTM A 194 Gr. 2H	2
15	Washer	Carbon Steel	– – –	2
16	Screw	Carbon Steel	– – –	2
17	Yoke Bush	Aluminium Bronze	BS EN 1982 AB – 1	1
18	Handwheel	Ductile Iron	ASTM A536 / IS 1865	1
19	Washer	Carbon Steel	– – –	1
20	Handwheel Nut	Carbon Steel	– – –	1
21	Identification Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	ØD ~
1/2	15	85	1/2″	156	95
3/4	20	86	3/4″	156	95
1	25	101	1″	183	95
1 1/4	32	140	1 1/4″	250	155
1 1/2	40	140	1 1/2″	250	155
2	50	164	2″	250	155

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1074A Forged Steel Globe Valve, Class-800 (Full Bore)

Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

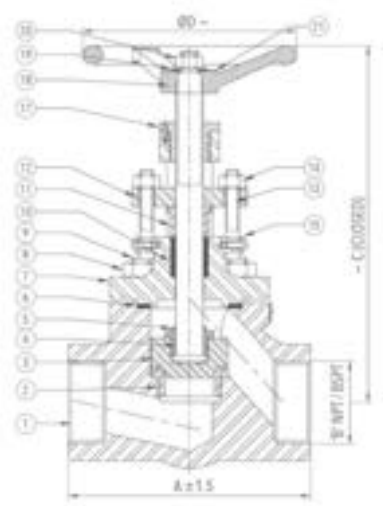


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
3	Disc	Stainless Steel	ASTM A 276 Type 410	1
4	Stem	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
5	Check Nut	Stainless Steel	ASTM A 276 Type 410	1
6	Gasket	Spiral Wound S.S (Type 316) Graphite Filled	– – –	1
7	Bonnet	Forged Carbon Steel	ASTM A 105	1
8	Bonnet Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
9	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
10	Gland Packing	Non Asbestos Graphite With Corrosion Inhibitor	– – –	
11	Gland	Stainless Steel	ASTM A 276 Type 410	1
12	Gland Flange	Carbon Steel	– – –	1
13	Eye Bolt	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
14	Nut	Alloy Steel	ASTM A 194 Gr. 2H	2
15	Washer	Carbon Steel	– – –	2
16	Screw	Carbon Steel	– – –	2
17	Yoke Bush	Aluminium Bronze	BS EN 1982 AB – 1	1
18	Handwheel	Ductile Iron	ASTM A536 / IS 1865	1
19	Washer	Carbon Steel	– – –	1
20	Handwheel Nut	Carbon Steel	– – –	1
21	Identification Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	ØD ~
3/8	10	85	3/8″	156	95
1/2	15	86	1/2″	156	95
3/4	20	101	3/4″	183	95
1	25	140	1″	250	155
1 1/4	32	140	1 1/4″	250	155
1 1/2	40	164	1 1/2″	250	155

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1075 Forged Steel Gate Valve, Class-800 (Standard Bore)

Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

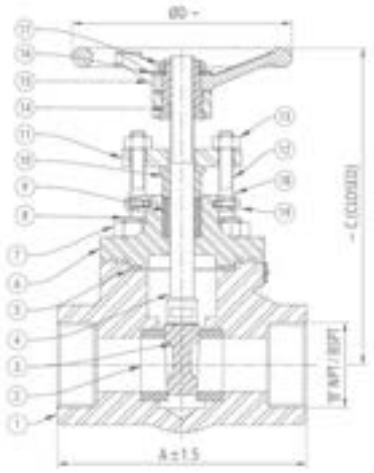


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	2
3	Wedge (Solid)	Stainless Steel	ASTM A217 Gr. CA 15	1
4	Stem	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	1
5	Gasket	Spiral Wound S.S (Type 316) Graphite Filled	– – –	1
6	Bonnet	Forged Carbon Steel	ASTM A 105	1
7	Bonnet Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
8	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
9	Gland Packing	Non Asbestos Graphite With Corrosion Inhibitor	– – –	
10	Gland	Stainless Steel	ASTM A276 Type 410.	1
11	Gland Flange	Carbon Steel	– – –	1
12	Eye Bolt	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	2
13	Nut	Alloy Steel	ASTM A194 Gr. 2H	2
14	Yoke Sleeve	Aluminium Bronze	BSEN 1982 AB – 1	1
15	Handwheel	Ductile Iron	ASTM A 536 / IS 1865	1
16	Identification Plate	Aluminium	– – –	1
17	Check Nut	Stainless Steel	ASTM A 276 Type 410	1
18	Washer	Carbon Steel	– – –	2
19	Screw	Carbon Steel	– – –	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	ØD ~
1/2	15	85	1/2″	143	85
3/4	20	86	3/4″	146	85
1	25	101	1″	162	95
1 1/4	32	140	1 1/4″	226	155
1 1/2	40	140	1 1/2″	226	155
2	50	164	2″	230	155

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1075A Forged Steel Gate Valve, Class-800 (Full Bore)

Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

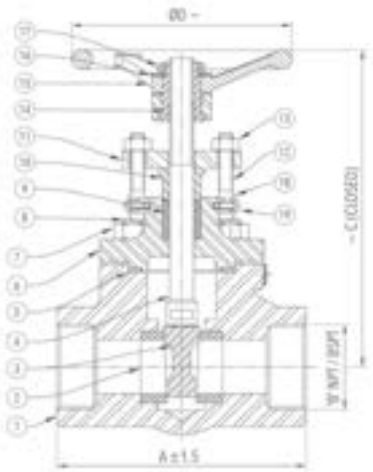


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	2
3	Wedge (Solid)	Stainless Steel	ASTM A217 Gr. CA 15	1
4	Stem	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	1
5	Gasket	Spiral Wound S.S. (Type 316) Graphite Filled	– – –	1
6	Bonnet	Forged Carbon Steel	ASTM A 105	1
7	Bonnet Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
8	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
9	Gland Packing	Non Asbestos Graphite With Corrosion Inhibitor	– – –	
10	Gland	Stainless Steel	ASTM A276 Type 410.	1
11	Gland Flange	Carbon Steel	– – –	1
12	Eye Bolt	Stainless Steel	ASTM A276 Type 410 / ASTM A 182 Gr. F6a	2
13	Nut	Alloy Steel	ASTM A194 Gr. 2H	2
14	Yoke Sleeve	Aluminium Bronze	BSEN 1982 AB – 1	1
15	Handwheel	Ductile Iron	ASTM A 536 / IS 1865	1
16	Identification Plate	Aluminium	– – –	1
17	Check Nut	Stainless Steel	ASTM A 276 Type 410	1
18	Washer	Carbon Steel	– – –	2
19	Screw	Carbon Steel	– – –	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	ØD ~
3/8	10	85	3/8″	143	85
1/2	15	86	1/2″	146	85
3/4	20	101	3/4″	162	95
1	25	140	1″	226	155
1 1/4	32	140	1 1/4″	226	155
1 1/2	40	164	1 1/2″	230	155

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1076 Forged Steel Horizontal Lift Check Valve, Class-800 (Standard Bore)

Salient Features

- Design Standard API 602/BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

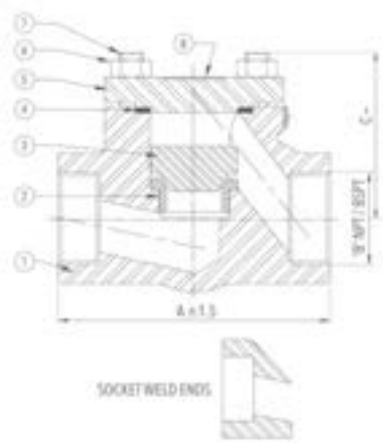


Test Pressure (Hydrostatic) :
Shell : 207 bar (3000 psig)
Seat : 152 bar (2200 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A182 Gr. F6a	1
3	Disc	Stainless Steel	ASTM A 276 Type 410	1
4	Gasket	Spiral Wound (Type 316) Graphite Filled	– – –	1
5	Cover	Forged Carbon Steel	ASTM A 105	1
6	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
7	Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
8	Identification Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~
1/2	15	85	1/2″	61
3/4	20	86	3/4″	61
1	25	101	1″	76
1 1/4	32	140	1 1/4″	105
1 1/2	40	140	1 1/2″	105
2	50	164	2″	105

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1076A Forged Steel Horizontal Lift Check Valve, Class-800 (Full Bore)

Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

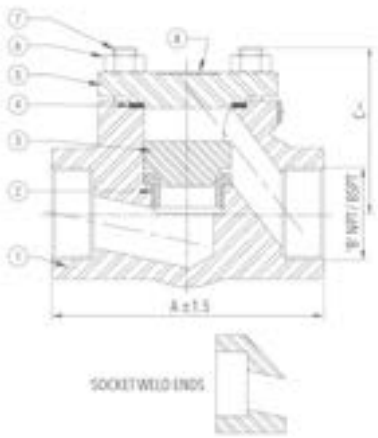


Test Pressure (Hydrostatic) :
Shell : 207 bar (3000 psig)
Seat : 152 bar (2200 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Carbon Steel	ASTM A 105	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A182 Gr. F6a	1
3	Disc	Stainless Steel	ASTM A 276 Type 410	1
4	Gasket	Spiral Wound (Type 316) Graphite Filled	– – –	1
5	Cover	Forged Carbon Steel	ASTM A 105	1
6	Stud	Alloy Steel	ASTM A 193 Gr. B7	4
7	Nut	Alloy Steel	ASTM A 194 Gr. 2H	4
8	Identification Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~
3/8	10	85	3/8″	61
1/2	15	86	1/2″	61
3/4	20	101	3/4″	76
1	25	140	1″	105
1 1/4	32	140	1 1/4″	105
1 1/2	40	164	1 1/2″	105

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1077 Cast Steel Gate Valve, Class-150 (Flanged)

Salient Features

- Design Standard BS EN ISO 10434 / API 600.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.
- Flanged Ends as per ASME B 16.5 Class-150.

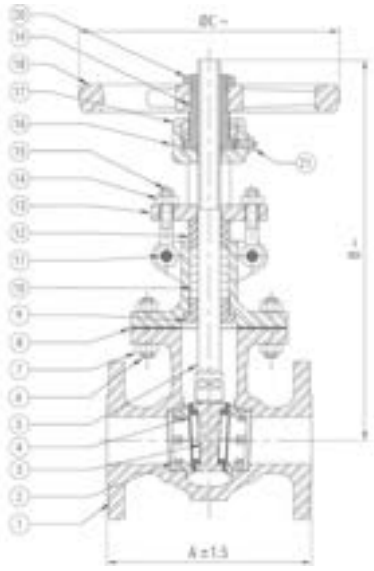


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (425 psig)
Seat : 21kg/cm²g (313 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Steel	ASTM A 216 Gr. WCB	1
2	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
3	Wedge	Cast Steel	ASTM A 216 Gr. WCB	1
4	Wedge Facing Ring	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	2
5	Stem	Stainless Steel	ASTM A 276 Type 410 / ASTM A 182 Gr. F6a	1
6	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd.
7	Nuts	H.T. Steel	ASTM A 194 Gr. 2H	As Reqd.
8	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
9	Back Seat Bush	Aluminium Bronze	BS EN 1982 Gr. AB – 1	1
10	Gland Packing	Braided Graphite	IS 4687	–
11	Pin For Eye Bolt	Stainless Steel	ASTM A 276 Type 410	2
12	Gland	Stainless Steel	ASTM A 276 Type 410	1
13	Gland Flange	Carbon Steel	– – –	1
14	Nuts	H.T Steel	ASTM A 194 Gr. 2H	2
15	Eye Bolts	Stainless Steel	ASTM A 276 Type 410	2
16	Bonnet	Carbon Steel	ASTM A 216 Gr. WCB	1
17	Sleeve Nut	Stainless Steel	ASTM A 276 Type 410	1
18	Handwheel	Nodular Iron	ASTM A 439 D2	1
19	Yoke Sleeve	S.G Iron	IS 1865 Gr. 400 / 15	1
20	Handwheel Nut	Carbon Steel	– – –	1
21	Grease Nipple	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
1 1/2	40	165	330	210
2	50	178	340	210
2 1/2	65	190	395	210
3	80	203	430	225
4	100	229	521	255

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Email : sales@zolotovalves.com, mktg@zolotovalves.com

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
5	125	254	568	255
6	150	267	666	356
8	200	292	783	400

~ ±10

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1078 Butterfly Valve (Wafer Type) PN 1.6 with S.G Iron Disc

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

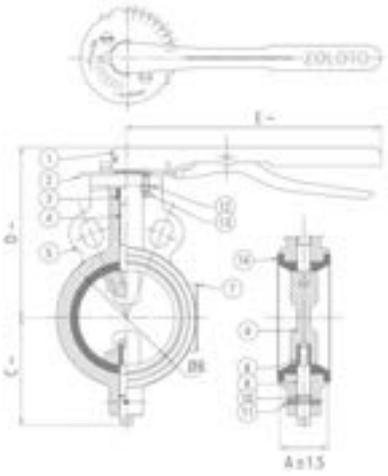
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Temperature : 90°C
Maximum Working Pressure : 1.6 MPa

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Flow Control Lever	Carbon Steel (Powder Coated)	– – –	1
2	Notch Plate	Carbon Steel (Powder Coated)	– – –	1
3	Packing Bush	PTFE	– – –	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	S.G Iron (Epoxy Coated)	IS 1865 Gr. 400/15	1
7	Name Plate	Aluminium	– – –	1
8	Bush	PTFE / Bronze	– – – / IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon 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	33	40.6	57	113	260
2	50	43	52.4	73	125	260
2 1/2	65	46	67	80	140	260
3	80	46	81.3	88	145	260
4	100	52	101	110	178	260
5	125	56	127.1	122	190	260
6*	150*	56	151	151	204	260

~ ±10
*Bush for Size 150 is of Bronze.

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NOTE : Valves are also available with limit switch (Non-ISI), Pad lock arrangement and gear arrangement at nominal extra cost.

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1078A Butterfly Valve (Wafer Type) PN 1.6 with S.G Iron Disc - Gear Operated

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

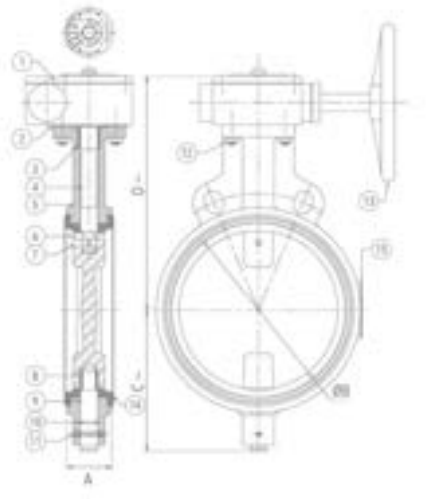
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C
PN1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Gear Box Assembly	– – –	– – –	1
2	Gasket	Steam Jointing Sheet	IS2712 Gr. W/3	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	S. G Iron (Epoxy Coated)	IS 1865 Gr. 400/15	1
7	Taper Pin (Optional)	Stainless Steel	IS 6603 Gr. X04Cr19Ni9	To Suit
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
11	L- Key Screw	Carbon Steel	– – –	To Suit
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	4 Each
13	Handwheel	Sheet Metal	– – –	1
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C ~	D ~
8	200	60 ±2	201.6	180	295
10	250	68 ±2	252.2	220	320
12	300	78 ±2	301.3	247	344
14	350	85 ±3	352	292	400
16	400	96 ±3	393.8	314	428

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Size (Inches)	Size (mm)	A	ØB	C ~	D ~
18	450	108 ±3	442	345	474
20	500	127 ±4	504.2	422	568
24	600	146.5 ±4	593	465	625

~ ±10

Sizes above 300mm are Non-ISI & Sizes above 400mm are available in PN 1.0 rating only.
Note : Valves are also available with limit switch (Non-ISI) and Pad lock arrangement at nominal extra cost.
Taper Pin (Part No.7) is not applicable for size 200mm.

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1078B Butterfly Valve (Wafer Type), PN 1.6 with S.S 304 Disc

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

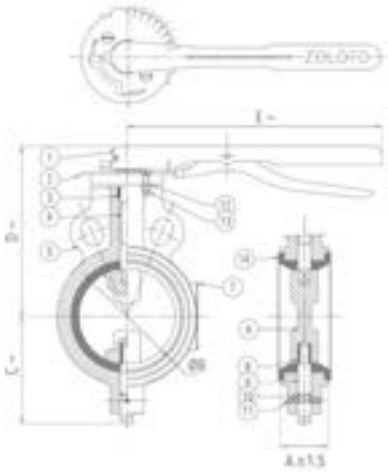
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Part Name	Material	Specification	Qty.
1	Flow Control Lever	Carbon Steel (Powder Coated)	– – –	1
2	Notch Plate	Carbon Steel (Powder Coated)	– – –	1
3	Packing Bush	PTFE	– – –	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G. Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A 351 Gr. CF8	1
7	Name Plate	Aluminium	– – –	1
8	Bush	PTFE/Bronze	– – – / IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	2 Each
13	Locking Washer	Spring Steel	– – –	2
14	Boby Lining	EPDM/Nitrile	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C~	D~	E~
1 1/2	40	33	40.6	57	113	260
2	50	43	52.4	73	125	260
2 1/2	65	46	67	80	140	260
3	80	46	81.3	88	145	260
4	100	52	101	110	178	260
5	125	56	127.1	122	190	260
6*	150*	56	151	151	204	260

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~ ±10

*Bush for Size 150 is of Bronze.

NOTE : Valves are also available with limit switch (Non-ISI), Pad lock arrangement and gear arrangement at nominal extra cost.

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1078C Butterfly Valve (Wafer Type), PN 1.6 with S.S 304 Disc - Gear Operated

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

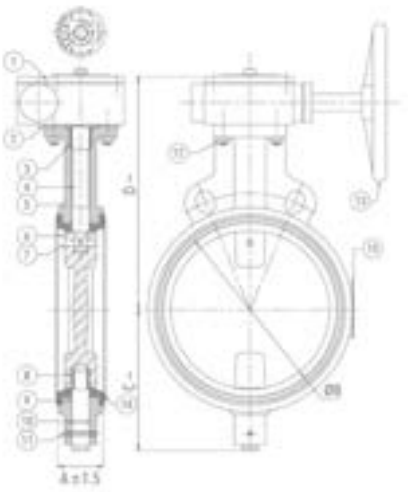
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Gear Box Assembly	– – –	– – –	1
2	Gasket	Steam Jointing Sheet	IS2712 Gr. W/3	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A 351 Gr. CF8	1
7	Name Plate	Aluminium	– – –	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	4 Each
13	Handwheel	Sheet Metal	– – –	1
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~
8	200	60	201.6	180	295
10	250	68	252.2	220	320
12	300	78	301.3	250	344

~ ±10

Note : Valves are also available with limit switch (Non-ISI) and Pad lock arrangement at nominal extra cost.

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1078D Butterfly Valve (Wafer Type), PN 1.0 with Pneumatic Actuator

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Double Acting Pneumatic Actuator Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Actuator is with position indicator and adjustable center stopper for both open and closed position.
- Scotch Yoke Technology as the most suitable mechanism for valve and damper operation, producing higher torque at both end positions.
- Actuator is without Rack and Pinion for smooth operation and longer life.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

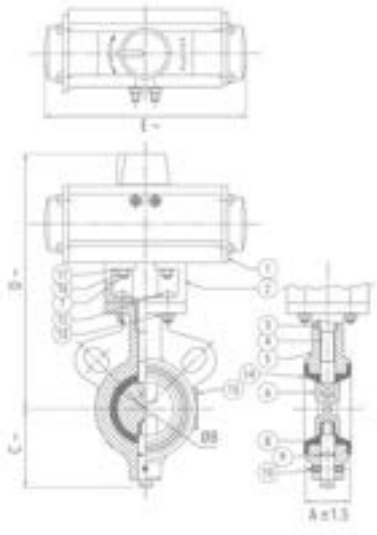
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Pneumatic Actuator	– – –	– – –	1
2	Actuator Base	Carbon Steel	– – –	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A 351 Gr. CF8	1
7	Studs for Actuator	Carbon Steel	– – –	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	L – Key Bolts & Nuts	Carbon Steel	– – –	4 Each
13	Locking Washer	Spring Steel	– – –	1
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	4
16	Nuts	Carbon Steel	– – –	4
17	Spring Washer	Spring Steel	– – –	4



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	E ~	Actuator Model No.
1 1/2	40	33	40.6	57	223	185	PD 50
2	50	43	52.4	73	235	185	PD 50
2 1/2	65	46	67	80	250	185	PD 50

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Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	E ~	Actuator Model No.
3	80	46	81.3	88	258	185	PD 50
4	100	52	101	110	306	250	PD 70
6	150	56	151	151	340	250	PD 70
8	200	60	201.6	180	445	350	PD 100

~ ±10

Note : Valves are also available with Solenoid device and Limit Switch (Position Indicator) at nominal extra cost.

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1078F Butterfly Valve (Wafer Type), PN 1.0 with Electrical Actuator

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Electrical Acuator Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Actuator is with position indicator and adjustable center stopper for both open and closed position.
- Compliant with B.M.S (Building Management System) and PLC (Programmable Logic Control).
- Inbuilt thermal protection and space heater
- IP 67 / IP 68 protection available for outdoor application.
- Inbuilt micro switch position feedback.
- Input Voltage – 230 VAC/24 VDC* power supply.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.
- For manual operation allen key is provided.
- Instrumental in Zero Water Waste installations.

*Valves with Neoprene / Viton / Silicon lining, IS 3444 Gr.4 /CF8M (S.S 316) Disc and 24VDC Input Voltage can also be provided at nominal extra cost.

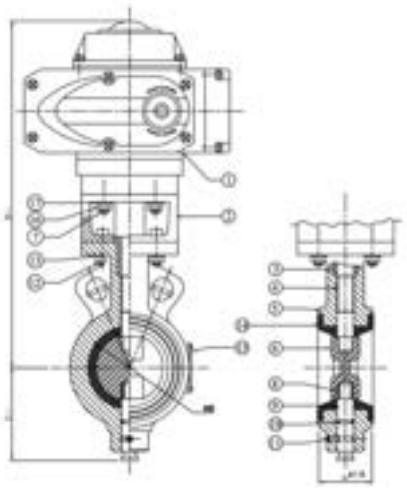
PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

Important Note : Advised to use canopy for enhanced protection from continuous weather exposure.

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Electric Actuator	– – –	– – –	1
2	Actuator Base	S.G. Iron	IS 1865 Gr. 400/15	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A351 Gr. CF8	1
7	Studs for Actuator	Carbon Steel	IS 1367	4
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	L-Key Bolts & Nuts	Carbon Steel	– – –	4 Each
13	Locking Washer	Spring Steel	– – –	4 Each
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	1
16	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	4
17	Spring Washer	Spring Steel	– – –	4



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Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	Actuator Model No.
1 1/2	40	33	40.6	57	283	ZSY 1
2	50	43	52.4	73	293	ZSY 1
2 1/2	65	46	67	80	306	ZSY 1
3	80	46	81.3	88	313	ZSY 1
4	100	52	101	110	341	ZSY 1
5	125	56	127.1	122	342	ZSY 2
6	150	56	151	151	370	ZSY 2
8	200	60	201.6	180	427	ZSY 2
10	250	68	252.2	220	516	ZSY 4
12	300	78	301.3	250	540	ZSY 4
14	350	86	352	295	610	ZSY 6

~ ±10

Note : Valves are also available with Control Panel, Magnetic Sensor for automated tank filling.

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1078G Butterfly Valve (Wafer Type), PN 2.5 with S.G Iron Disc

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

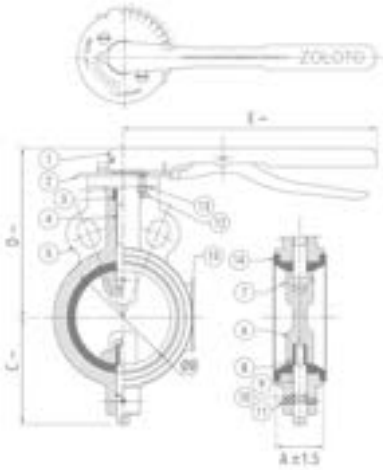
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 2.5 –
Test Pressure (Hydrostatic) :
Shell : 3.75 MPa
Seat : 2.75 MPa
Maximum Working Pressure : 2.5 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Flow Control Lever	Carbon Steel (Powder Coated)	– – –	1
2	Notch Plate	Carbon Steel (Powder Coated)	– – –	1
3	Packing Bush	PTFE	– – –	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	S.G Iron (Epoxy Coated)	IS 1865 Gr. 400/15	1
7	Taper Pin (Optional)	Stainless Steel	IS 6603 Gr. 12 Cr12	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	2 Each
13	Locking Washer	Spring Steel	– – –	2
14	Boby Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	E ~
1 1/2	40	33	40.6	57	113	260
2	50	43	53	73	125	260
2 1/2	65	46	67.5	80	140	260
3	80	46	81.3	88	145	260
4	100	52	101.5	110	178	260
5	125	56	127.1	122	190	260
6	150	56	151.5	151	204	260

~ ±10

NOTE : Valves are also available with limit switch, Pad lock arrangement and gear arrangement at nominal extra cost.

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1078H Butterfly Valve (Wafer Type), PN 2.5 with S.G Iron Disc - Gear Operated

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

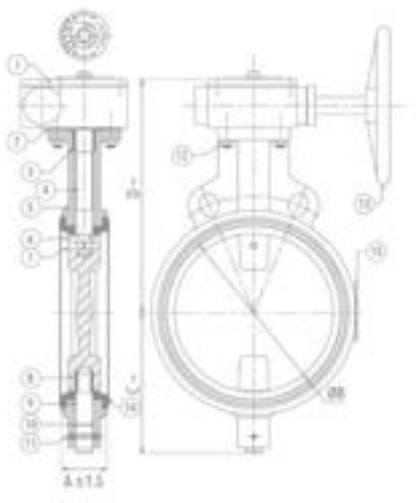
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 2.5 –
Test Pressure (Hydrostatic) :
Shell : 3.75 MPa
Seat : 2.75 MPa
Maximum Working Pressure : 2.5 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Gear Box Assembly	– – –	– – –	1
2	Gasket	Steam Jointing Sheet	IS2712 Gr. W/3	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	S. G Iron (Epoxy Coated)	IS 1865 Gr. 400/15	1
7	Taper Pin (Optional)	Stainless Steel	IS 6603 Gr. 12 Cr12	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	4 Each
13	Handwheel	Sheet Metal	– – –	1
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C~	D~
8	200	60	201.6	180	295
10	250	68	252.2	220	320
12	300	78	301.8	250	344

~ ±10

Note : Valves are also available with limit switch and Pad lock arrangement at nominal extra cost.

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1078I Butterfly Valve (Wafer Type), PN 2.5 with S.S 304 Disc

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

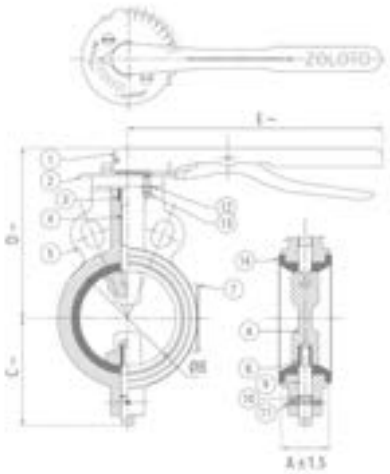
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 2.5 –
Test Pressure (Hydrostatic) :
Shell : 3.75 MPa
Seat : 2.75 MPa
Maximum Working Pressure : 2.5 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Flow Control Lever	Carbon Steel (Powder Coated)	– – –	1
2	Notch Plate	Carbon Steel (Powder Coated)	– – –	1
3	Packing Bush	PTFE	– – –	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A 351 Gr. CF8	1
7	Name Plate	Aluminium	– – –	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon 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	33	40.6	57	113	260
2	50	43	53	73	125	260
2 1/2	65	46	67.5	80	140	260
3	80	46	81.3	88	145	260
4	100	52	101.5	110	178	260
5	125	56	127.1	122	190	260
6	150	56	151.5	151	204	260

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~ ±10

NOTE : Valves are also available with limit switch, Pad lock arrangement and gear arrangement at nominal extra cost.

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1078J Butterfly Valve (Wafer Type), PN 2.5 with S.S 304 Disc - Gear Operated

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

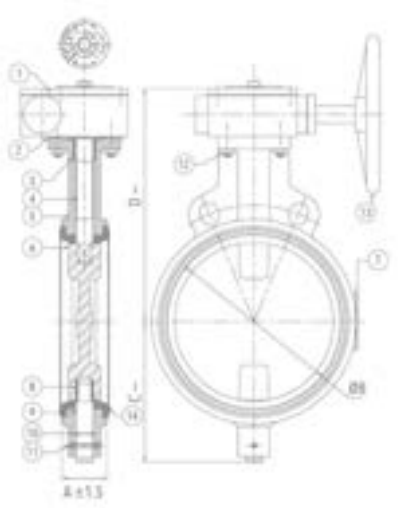
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 2.5 –
Test Pressure (Hydrostatic) :
Shell : 3.75 MPa
Seat : 2.75 MPa
Maximum Working Pressure : 2.5 MPa
Maximum Working Temperature : 90°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Gear Box Assembly	– – –	– – –	1
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A 351 Gr. CF8	1
7	Name Plate	Aluminium	– – –	1
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key screw	Carbon Steel	– – –	1
12	C – Sunk Screw & Nuts	Carbon Steel	– – –	4 Each
13	Handwheel	Sheet Metal	– – –	1
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~
8	200	60	201.6	180	295
10	250	68	252.2	220	320
12	300	78	301.8	250	344

~ ±10

Note : Valves are also available with limit switch and Pad lock arrangement at nominal extra cost.

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1078K Butterfly Valve (Wafer Type), PN 1.6 with Electrical Actuator

Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Electrical Acuator Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Actuator is with position indicator and adjustable center stopper for both open and closed position.
- Compliant with B.M.S (Building Management System) and PLC (Programmable Logic Control).
- Inbuilt thermal protection and space heater
- IP 67 / IP 68 protection available for outdoor application.
- Inbuilt micro switch position feedback.
- Input Voltage – 230 VAC/24 VDC* power supply.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.
- For manual operation allen key is provided.
- Instrumental in Zero Water Waste installations.

*Valves with Neoprene / Viton / Silicon lining, IS 3444 Gr.4 /CF8M (S.S 316) Disc and 24VDC Input Voltage can also be provided at nominal extra cost.

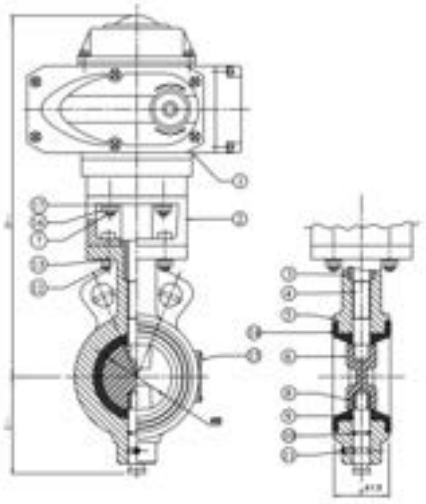
PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

Important Note : Advised to use canopy for enhanced protection from continuous weather exposure.

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Electric Actuator	– – –	– – –	1
2	Actuator Base	S.G. Iron	IS 1865 Gr. 400/15	1
3	Packing Bush	Bronze	IS 318 Gr. LTB 2	1
4	Upper Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
5	Body	S.G Iron	IS 1865 Gr. 400/15	1
6	Disc	Stainless Steel	IS 3444 Gr. 1 / ASTM A351 Gr. CF8	1
7	Studs for Actuator	Carbon Steel	– – –	4
8	Bush	Bronze	IS 318 Gr. LTB 2	1
9	Lower Stem	Stainless Steel	IS 6603 Gr. 12 Cr12	1
10	‘O’ Ring	Nitrile Rubber	IS 5192 – 1	1
11	L – Key Screw	Carbon Steel	– – –	1
12	L-Key Bolts & Nuts	Carbon Steel	– – –	4 Each
13	Locking Washer	Spring Steel	– – –	4 Each
14	Body Lining	EPDM / Nitrile	IS 5192 – 1	1
15	Name Plate	Aluminium	– – –	1
16	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	4
17	Spring Washer	Spring Steel	– – –	4



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Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	Actuator Model No.
1 1/2	40	33	40.6	57	283	ZSY 1
2	50	43	52.4	73	293	ZSY 1
2 1/2	65	46	67	80	306	ZSY 1
3	80	46	81.3	88	313	ZSY 1
4	100	52	101	110	333	ZSY 2
5	125	56	127.1	122	342	ZSY 2
6	150	56	151	151	370	ZSY 2
8	200	60	201.6	180	485	ZSY 3
10	250	68	252.2	220	516	ZSY 4
12	300	78	301.3	250	540	ZSY 4

~ ±10

Note : Valves are also available with Control Panel, Magnetic Sensor for automated tank filling system.

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1079A Cast Iron Sluice Valve PN 1.0 (Flanged)

Salient Features

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

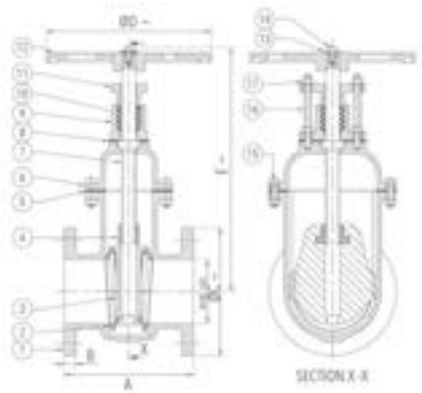


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 45°C

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	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	As Reqd.
16	Stud / Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	2
17	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A	B	ØC	ØD ±5.0	E (Max.)
2*	50	178 ±2	16 +2	165 (+1.5/-1.0)	225	365
2 1/2*	65	190 ±2	16 +2	185 (+1.5/-1.0)	225	380
3	80	203 ±2	21 ±3	200 ±4.5	225	425
4	100	229 ±2	22 ±3	220 ±4.5	320	470
5	125	254 ±2	22.5 ±3	250 ±4.5	320	485
6	150	267 ±2	23 ±3	285 (+5.5/-2.5)	320	595
8	200	292 ±2	24.5 ±3	340 (+5.5/-2.5)	360	725
10	250	330 ±2	26 ±3	395 (+5.5/-2.5)	400	835
12	300	356 ±2	27.5 ±3	445 (+5.5/-2.5)	400	910
14*1	350*1	381 ±3	29 ±3	505 (+6.5/-3.0)	500	1020
16*1	400*1	406 ±3	30 ±3	565 (+6.5/-3.0)	640	1110
18*1	450*1	432 ±3	31.5 ±3	615 (+6.5/-3.0)	720	1200

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Size (Inches)	Size (mm)	A	B	ØC	ØD ±5.0	E (Max.)
24[*1]	600[*1]	508 ±3	36 ±3	780 (+6.5/-3.0)	720	1500

* Flanges as per IS 14846.
[*1] IS Certification for these sizes is currently under process.

NOTE : Valves are also available with extended stem, Pad lock arrangement, Limit switch and Brass spindle at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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1079B Cast Iron Sluice Valve PN 1.6 (Flanged)

Salient Features

- Design Standard IS 14846 PN 1.6.
- Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Rigid and Sturdy design.
- Handwheel Operated.
- Flange Ends as per IS 1538.

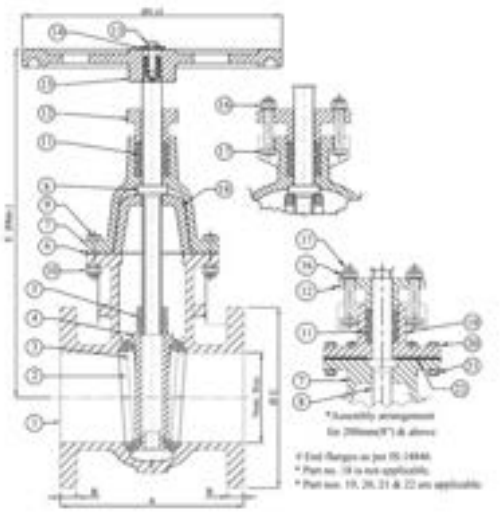


Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 45°C

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	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	2
3	Wedge Ring	Bronze	IS 318 Gr. LTB 2	2
4	Wedge	Cast Iron	IS 210 Gr. FG 200	1
5	Stem Bush	Bronze	IS 318 Gr. LTB 2	1
6	Gasket	Rubber	IS 638 Type B	1
7	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
8	Stem	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
9	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	To Suit
10	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit
11	Gland Packing	Hemp & Jute	IS 5414	–
12	Gland Flange	Cast Iron	IS 210 Gr. FG 200	1
13	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
14	Washer	Carbon Steel	– – –	1
15	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	1
16	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	2
17	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	2
18	Thrust Plate	Cast Iron	IS 210 Gr. FG 200	1
19	Stuffing Box	Cast Iron	IS 210 Gr. FG 200	1
20	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	To Suit
21	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit
22	Gasket	Rubber	IS 638 Type B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	B	ØC	ØD ±5	E (Max.)
2*	50	178 ±2	16 +2	165 (+1.5/-1.0)	280	365
2 1/2*	65	190 ±2	16 +2	185 (+1.5/-1.0)	280	380
3	80	203 ±2	21 ±3	200 ±4.5	280	425
4	100	229 ±2	22 ±3	220 ±4.5	360	470
5	125	254 ±2	22.5 ±3	250 ±4.5	360	485
6	150	267 ±2	23 ±3	285 (+5.5/-2.5)	360	595
8#	200#	292 ±3	24.5 ±3	340 (+5.5/-2.5)	450	725
10#	250#	330 ±3	26 ±3	395 (+5.5/-2.5)	640	835

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Size (Inches)	Size (mm)	A	B	ØC	ØD ±5	E (Max.)
12#	300#	356 ±3	27.5 ±3	445 (+5.5/-2.5)	640	910

* Flanges as per IS 14846.
# For size 200, 250 and 300 part number 18 is not applicable.

NOTE : Valves are also available with extended stem, Pad lock arrangement, Limit switch and Brass spindle at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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1079C Cast Iron Sluice Valve PN 1.0 (Flanged) with Rising Stem

Salient Features

- Design Reference Standard IS 14846.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Spindle, Solid Wedge.
- Rigid and Sturdy design.
- Hand wheel operated.
- Flanged ends to IS 1538.
- Provision of Re-Packing under pressure.

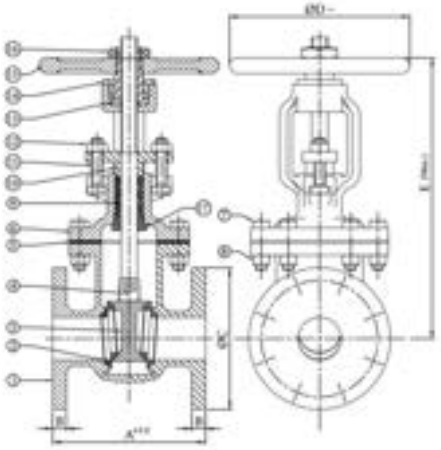


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 45°C

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	Seat Ring	Bronze	IS 318 Gr. LTB 2	4
3	Wedge	Cast Iron	IS 210 Gr. FG 200	1
4	Stem	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
5	Gasket	Rubber	IS 638 Type B	1
6	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
7	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	As Reqd.
8	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
9	Gland Packing	Hemp. & Jute	IS 5414	–
10	Gland Flange	Cast Iron	IS 210 Gr. FG 200	1
11	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	2
12	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	2
13	Sleeve	S.G Iron	IS 1865	1
14	Sleeve Nut	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
15	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
16	Handwheel Nut	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
17	Back Seat Bush	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	ØC	ØD ~	E (Max.)
2*	50	178	16 +2	165 (+1.5/-1.0)	210	350
2 1/2*	65	190	16 +2	185 (+1.5/-1.0)	210	410
3	80	203	21 ±3	200 ±4.5	225	455
4	100	229	22 ±3	220 ±4.5	255	540
5	125	254	22.5 ±3	250 ±4.5	255	588
6	150	267	23 ±3	285 (+5.5/-2.5)	310	655
8	200	292	24.5 ±3	340 (+5.5/-2.5)	395	780
10	250	330	26 ±3	395 (+5.5/-2.5)	460	960
12	300	356	27.5 ±3	445 (+5.5/-2.5)	460	1140

~ ±10
* Flanges as per IS 14846.
NOTE : Valves are also available with brass spindle and Pad lock arrangement at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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1079D Cast Iron Sluice Valve PN 1.6 (Flanged) with Rising Stem

Salient Features

- Design Reference Standard IS 14846.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Spindle, Solid Wedge.
- Rigid and Sturdy design.
- Hand wheel operated.
- Flanged ends to IS 1538.
- Provision of Re-Packing under pressure.



Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 45°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	Seat Ring	Bronze	IS 318 Gr. LTB 2	4
3	Wedge	Cast Iron	IS 210 Gr. FG 200	1
4	Stem	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
5	Gasket	Rubber	IS 638 Type B	1
6	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
7	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	As Reqd.
8	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
9	Gland Packing	Hemp. & Jute	IS 5414	–
10	Gland Flange	Cast Iron	IS 210 Gr. FG 200	1
11	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	2
12	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	2
13	Sleeve	S.G Iron	IS 1865	1
14	Sleeve Nut	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
15	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
16	Washer	Carbon Steel	– – –	1
17	Handwheel Nut	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
18	Back Seat Bush	Bronze	IS 318 Gr. LTB 2	1

Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	ØC	ØD ~	E (Max.)
2*	50	178	16 +2	165 (+1.5/-1.0)	210	350
2 1/2*	65	190	16 +2	185 (+1.5/-1.0)	210	410
3	80	203	21 ±3	200 ±4.5	225	455
4	100	229	22 ±3	220 ±4.5	255	540
6	150	267	23 ±3	285 (+5.5/-2.5)	310	655
8	200	292	24.5 ±3	340 (+5.5/-2.5)	395	780
10	250	330	26 ±3	395 (+5.5/-2.5)	460	960
12	300	356	27.5 ±3	445 (+5.5/-2.5)	460	1140

~ ±10
* Flanges as per IS 14846.
NOTE : Valves are also available with brass spindle and Pad lock arrangement at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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1080A Stainless Steel (CF8M / S.S 316) Three Piece Design Ball Valve, Class-150 (Screwed)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

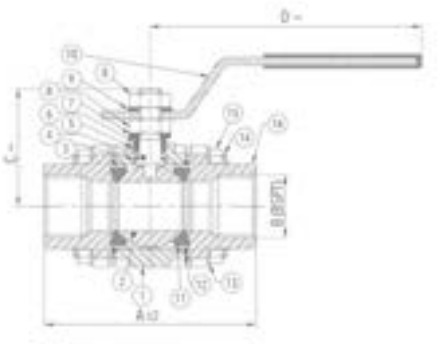


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Stainless Steel	ASTM A 351 Gr. CF8M	1
2	Ball	Stainless Steel	ASTM A276 Type 316 / ASTM A 351 Gr. CF8M	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A276 Type 304	1
7	Cup Washer	Stainless Steel	ASTM A276 Type 304	2
8	Nut	H.T. Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Stainless Steel	ASTM A 351 Gr. CF8M	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	C ~	D ~
1/2	15	69	1/2″	38	112
3/4	20	73	3/4″	40	125
1	25	95	1″	57	168
1 1/4	32	105	1 1/4″	65	168
1 1/2	40	115	1 1/2″	75	177
2	50	128	2″	80	220

~ ±10

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1080B Stainless Steel (CF8M / S.S 316) Three Piece Design Ball Valve, Class-150 (Flanged)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ASME B B16.5 Class – 150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

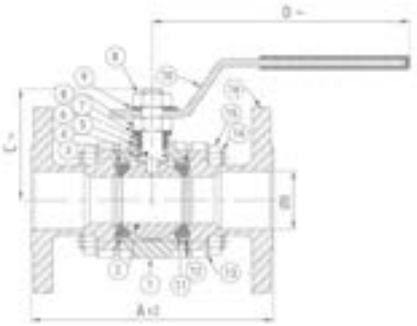


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7 kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Stainless Steel	ASTM A 351 Gr. CF8M	1
2	Ball	Stainless Steel	ASTM A 276 Type 316 / ASTM A 351 Gr. CF8M	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A 276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A 276 Type 316	1
7	Cup Washer	Stainless Steel	AISI A276 Type 316	2
8	Nut	H.T. Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Stainless Steel	ASTM A 351 Gr. CF8M	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	C ~	D ~
1/2	15	108	15	38	150
3/4	20	117	20	40	150
1	25	127	25	57	160
1 1/4	32	140	32	65	160
1 1/2	40	165	40	75	202
2	50	178	50	75	202
2 1/2*	65	191	63.5	125	250
3*	80	203	76	137	335
4*	100	229	100	158	335

~ ±10
*Full Bore

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1081 Stainless Steel (CF8 / S.S 304) Three Piece Design Ball Valve, Class-150 (Screwed)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

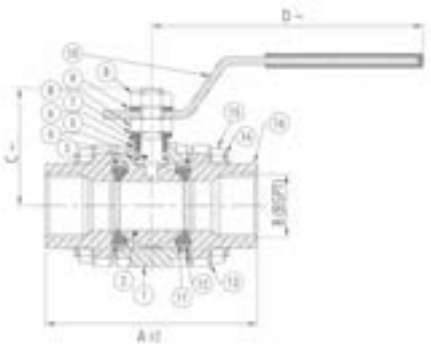


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Stainless Steel	ASTM A 351 Gr. CF8	1
2	Ball	Stainless Steel	ASTM A276 Type 304 / ASTM A 351 Gr. CF8	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A276 Type 304	1
7	Cup Washer	Stainless Steel	ASTM A276 Type 304	2
8	Nut	H.T Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Stainless Steel	ASTM A 351 Gr. CF8	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	C ~	D ~
1/2	15	69	1/2″	38	112
3/4	20	73	3/4″	40	125
1	25	95	1″	57	168
1 1/4	32	105	1 1/4″	65	168
1 1/2	40	115	1 1/2″	75	177
2	50	128	2″	80	220

~ ±10

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1081A Stainless Steel (CF8 / S.S-304) Three Piece Design Ball Valve, Class-150 (Flanged)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ASME B B16.5 Class-150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

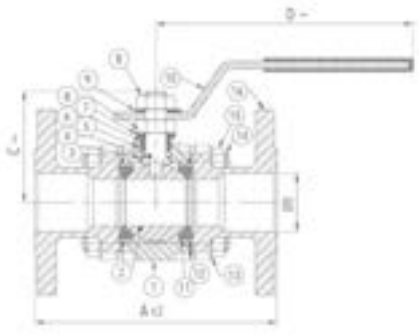


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7 kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil, Air, Gases

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Stainless Steel	ASTM A 351 Gr. CF8	1
2	Ball	Stainless Steel	ASTM A 276 Type 304 / ASTM A 351 Gr. CF8	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A 276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A 276 Type 304	1
7	Cup Washer	Stainless Steel	AISI A276 Type 304	2
8	Nut	H.T Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Stainless Steel	ASTM A 351 Gr. CF8	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	C ~	D ~
1/2	15	108	15	38	150
3/4	20	117	20	40	150
1	25	127	25	57	160
1 1/4	32	140	32	65	160
1 1/2	40	165	40	75	202
2	50	178	50	80	202
2 1/2*	65	191	63.5	125	250
3*	80	203	76	137	335
4*	100	229	100	158	335

~ ±10
*Full Bore

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1082 Cast Iron Dual Plate Wafer Type Check Valve, PN 16

Salient Features



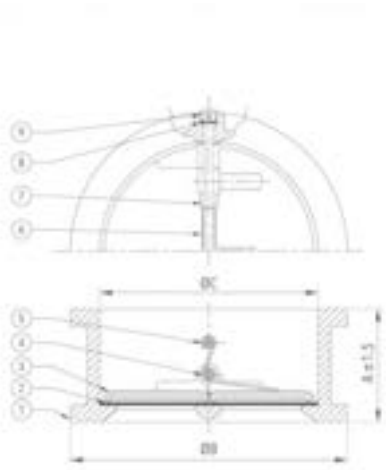
- Design standard API 594.
- Wafer Type Design, to take lesser space than the conventional Check Valve.
- Being light in weight, is more rigid than the standard Swing Type Check Valve, which needs expensive foundation and special supports.
- Being cylindrical body, stresses are uniformly distributed.
- Much longer seat life because of Bronze / S.S to Rubber contact.
- Less wear and tear of seat surfaces.
- End connections are designed to suit flanges drilled to ANSI B Class-125 / ASME B Class-150.
- Water hammering effect is minimized in this design, since the closing of valve does not depend upon any back pressure or flow.
- Each plate being half of the size of the swing check valve disc, provides straight flow path offering minimal resistance because of the spring's assistance as closing of the valve initiates as soon as flow velocity dips below the designated minimum velocity.

Test Pressure (Hydrostatic) :
Shell : 24.50 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (230 psig)
Maximum Working Temperature : 80°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	Body Lining	Nitrile Rubber	IS 5192 – 1	1
3	Flap / Disc	Stainless Steel / Bronze	ASTM A 351 Gr. CF8/CF8M / IS 318 Gr. LTB2	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



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

*Flap / Disc for Size 350 is of Bronze.

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1082A Ductile Iron Dual Plate Wafer Type Check Valve, PN 16

Salient Features



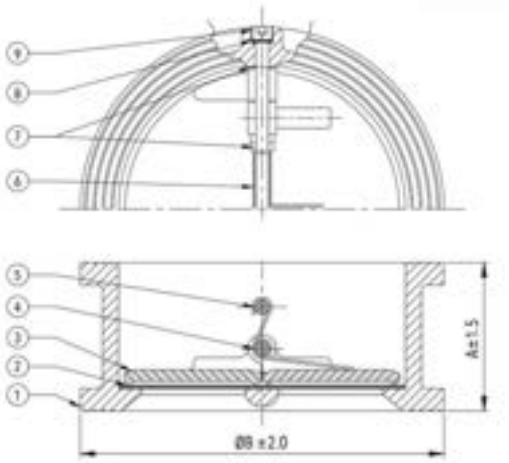
- Design Reference Standard API 594.
- Wafer Type Design, to take lesser space than the conventional Check Valve.
- Being light in weight, is more rigid than the standard Swing Type Check Valve, which needs expensive foundation and special supports.
- Being cylindrical body, stresses are uniformly distributed.
- Much longer seat life because of S.S to Rubber contact.
- Less wear and tear of seat surfaces.
- End connections are designed to suit flanges drilled to ANSI B Class-125 / ASME B Class-150.
- Water hammering effect is minimized in this design, since the closing of valve does not depend upon any back pressure or flow.
- Each plate being half of the size of the swing check valve disc, provides straight flow path offering minimal resistance because of the spring's assistance as closing of the valve initiates as soon as flow velocity dips below the designated minimum velocity.

Test Pressure (Hydrostatic) :
Shell : 24 bar
Seat : 17.6 bar
Maximum Working Temperature : -18°C to 80°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Ductile Iron	IS 1865 Gr. 400 / 15	1
2	Body Lining	Nitrile Rubber	IS 5192 – 1	1
3	Flap / Disc	Stainless Steel	ASTM A 351 Gr. CF8	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	PTFE	– – –	–
8	Packing Washer	Nitrile Rubber	IS : 5192-1	–
9	Retainer Plug	Carbon Steel	– – –	4



Sizes / Dimensions

Size (Inches)	Size (mm)	A±1.5	ØB±2
1 1/2	40	50	92
2	50	54	101
2 1/2	65	60	120
3	80	67	132
4	100	67	170
5	125	83	192
6	150	95	218
8	200	127	275
10	250	140	335
12	300	181	405
14	350	184	447
16	400	191	510

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Size (Inches)	Size (mm)	A±1.5	ØB±2
18	450	203	544
20	500	213	601
24	600	222	713

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1083 Cast Iron Non Return Valve PN 1.0 (Flanged)

Salient Features

- Design Standard IS 5312 – 1.
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

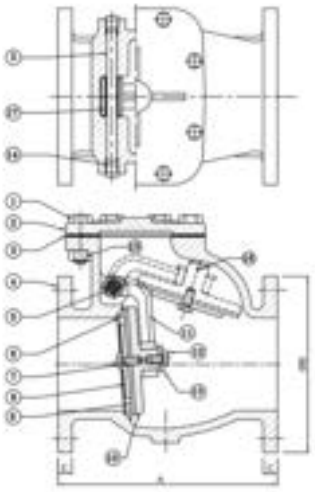


PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 80°C

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	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile 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 (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C
2*	50	203 ±2	165 (+1.5/-1.0)	16 +2
2 1/2*	65	216 ±2	185 (+1.5/-1.0)	16 +2
3	80	241 ±2	200 ±4.5	21 ±3
4	100	292 ±2	220 ±4.5	22 ±3
5	125	330 ±2	250 ±4.5	22.5 ±3
6	150	356 ±2	285 (+5.5/-2.5)	23 ±3
8	200	495 ±3	340 (+5.5/-2.5)	24.5 ±3
10	250	622 ±3	395 (+5.5/-2.5)	26 ±3
12	300	698 ±3	445 (+5.5/-2.5)	27.5 ±3

* Flanges as per IS 5312.

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

Salient Features

- Design Standard IS 5312 – 1 .
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

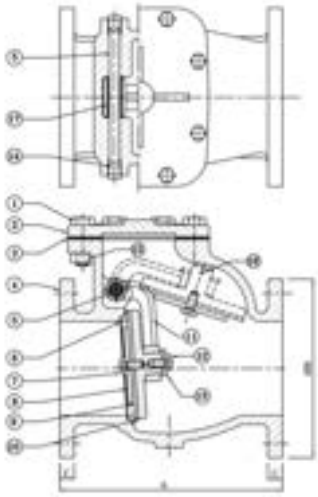


PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 80°C

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	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile 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 (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C
2*	50	203 ±2	165 (+1.5/-1.0)	16 +2
2 1/2*	65	216 ±2	185 (+1.5/-1.0)	16 +2
3	80	241 ±2	200 ±4.5	21 ±3
4	100	292 ±2	220 ±4.5	22 ±3
5	125	330 ±2	250 ±4.5	22.5 ±3
6	150	356 ±2	285 (+5.5/-2.5)	23 ±3
8	200	495 ±3	340 (+5.5/-2.5)	24.5 ±3
10	250	622 ±3	395 (+5.5/-2.5)	26 ±3
12	300	698 ±3	445 (+5.5/-2.5)	27.5 ±3

* Flanges as per IS 5312.

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1083B Cast Iron Non Return Valve PN 1.0 (With Bye Pass Arrangement) (Flanged)

Salient Features

- Design Standard IS 5312 – 1.
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

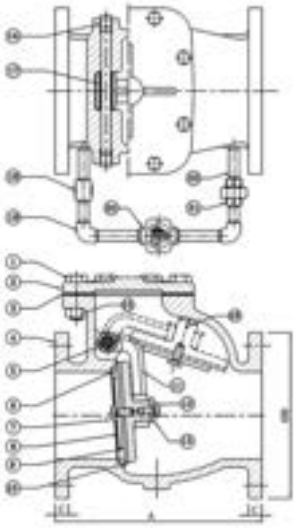


PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 80°C

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	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile 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 (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1
18	Pipe Socket	S.G.Iron	IS 1865 Gr. SG400/15	1
19	Pipe Elbow	S.G.Iron	IS 1865 Gr. SG400/15	2
20	By Pass Valve	Bronze Gate valve	ISI Marked Class-1	1
21	Pipe Union	S.G.Iron	IS 1865 Gr. SG400/15	1
22	By Pass Pipe	Galvanized Iron	—	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C	By Pass Size
2*	50	203 ±2	165 (+1.5/-1.0)	16 +2	1/2″
2 1/2*	65	216 ±2	185 (+1.5/-1.0)	16 +2	1/2″
3	80	241 ±2	200 ±4.5	21 ±3	1/2″
4	100	292 ±2	220 ±4.5	22 ±3	1/2″
5	125	330 ±2	250 ±4.5	22.5 ±3	1/2″
6	150	356 ±2	285 (+5.5/-2.5)	23 ±3	1/2″
8	200	495 ±3	340 (+5.5/-2.5)	24.5 ±3	1″
10	250	622 ±3	395 (+5.5/-2.5)	26 ±3	1″

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Size (Inches)	Size (mm)	A	ØB	C	By Pass Size
12	300	698 ±3	445 (+5.5/-2.5)	27.5 ±3	1.1/2″

* Flanges as per IS 5312 Part 1

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1083C Cast Iron Non-Return Valve PN 1.6 (With Bye Pass Arrangement) (Flanged)

Salient Features

- Design Standard IS 5312 – 1 .
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

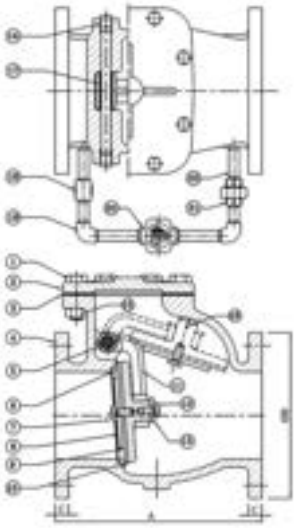


PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 80°C

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	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile 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 (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1
18	Pipe Socket	S.G.Iron	IS 1865 Gr. SG400/15	1
19	Pipe Elbow	S.G.Iron	IS 1865 Gr. SG400/15	2
20	By Pass Valve	Bronze Gate valve	ISI Marked Class-2	1
21	Pipe Union	S.G.Iron	IS 1865 Gr. SG400/15	1
22	By Pass Pipe	Galvanized Iron	—	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	C	By Pass Size
2*	50	203 ±2	165 (+1.5/-1.0)	16 +2	1/2″
2 1/2*	65	216 ±2	185 (+1.5/-1.0)	16 +2	1/2″
3	80	241 ±2	200 ±4.5	21 ±3	1/2″
4	100	292 ±2	220 ±4.5	22 ±3	1/2″
5	125	330 ±2	250 ±4.5	22.5 ±3	1/2″
6	150	356 ±2	285 (+5.5/-2.5)	23 ±3	1/2″
8	200	495 ±3	340 (+5.5/-2.5)	24.5 ±3	1″
10	250	622 ±3	395 (+5.5/-2.5)	26 ±3	1″

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1084 Cast Iron Y-Type Strainer PN 10 (Flanged)

Salient Features

- Flanged Ends to BS 10 Table ‘F’.
- Stainless Steel (S.S 304) perforated sheet screen (Ø3 mm 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.

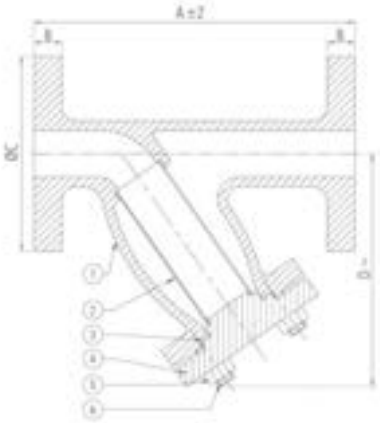


Test Pressure (Hydrostatic) :
Shell : 15 kg/cm²g (220 psig)
Maximum Working Pressure : 10 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

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 (Ø3 mm Perforation)	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	– – –	As Reqd.
6	Studs	Carbon Steel	– – –	As Reqd.



Sizes / Dimensions

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

~ ±10
Note : Strainers are also available with Magnet at a nominal extra cost.

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1084A Cast Iron Y-Type Strainer, PN 16 (Flanged)

Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø3 mm 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.

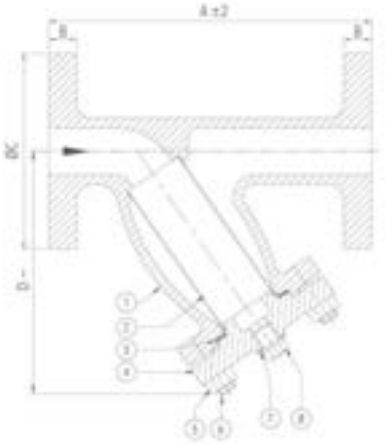


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Maximum Working Pressure : 16 kg/cm²g (225 psig)

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 (Ø3 mm Perforation)	Stainless Steel	Type 304	1
3	Gasket	Rubber	IS 638 Type B	1
4	Cover	Cast Iron	IS 210 Gr. FG 200	1
5	Nuts	Carbon Steel	– – –	As Reqd.
6	Studs	Carbon Steel	– – –	As Reqd.
7	Gasket	Rubber	IS 638 Type B	1
8	Drain Plug	Brass / Bronze	IS 6912 Gr. FLB / IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B +3	ØC +3	D ~
1 1/2	40	165	16	139.7	152
2	50	180	19	165.1	169
2 1/2	65	206	19	184.2	180
3	80	260	19	203.2	242
4	100	295	22.2	228.6	267
5	125	385	25.4	279.4	320
6	150	385	25.4	304.8	331
8	200	525	28.6	368.3	434
10	250	700	28.6	431.8	533

~ ±10
Note : Strainers are also available with Magnet at a nominal extra cost.

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1085 Bronze Ball Valve with Integral Strainer (Screwed)

Salient Features

- Screwed Female Ends to BSP.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel (S.S 304) rust proof perforated sheet screen is provided in the strainer.
- Carbon Steel Powder Coated and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

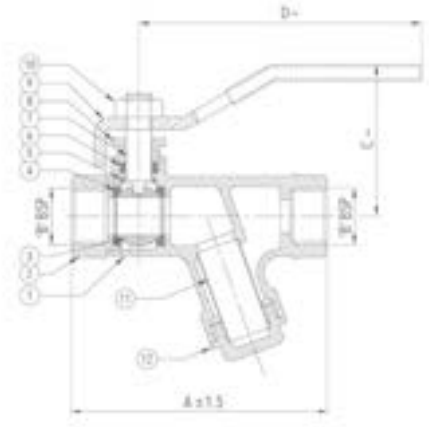


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Bonnet	Bronze	IS 318 Gr. LTB 2	1
3	Ball	Stainless Steel	ASTM A 276 Type 304	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Washer	PTFE	– – –	1
6	Packing Ring	PTFE	– – –	–
7	Stem	Stainless Steel	ASTM A 276 Type 410	1
8	Gland	Brass	IS 6912 Gr. FLB	1
9	Lever	Carbon Steel	– – –	1
10	Nut	Carbon Steel	– – –	1
11	Screen	Stainless Steel	Type 304	1
12	Bottom Cover	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2	15	92	1/2″	50	104
3/4	20	107	3/4″	60	121
1	25	119	1″	60	136

~ ±10

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1085A Bronze Ball Valve With Integral Strainer & Flare Nut (Mixed Ends)

Salient Features

- Screwed Ends to BSP Female Inlet and 5/8″ BSP Male Outlet provided with a Flare Nut.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel (S.S 304) rust proof perforated sheet screen is provided in the strainer.
- Stainless Steel, Rust Free and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

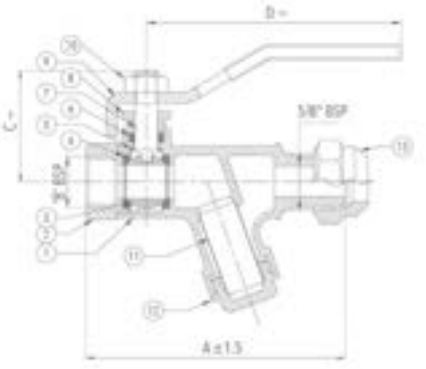


Test Pressure (Hydrostatic)
Shell : 20 kg/cm²g (300 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Bonnet	Bronze	IS 318 Gr. LTB 2	1
3	Ball	Stainless Steel	ASTM A 276 Type 304	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Washer	PTFE	– – –	1
6	Packing Ring	PTFE	– – –	–
7	Stem	Stainless Steel	ASTM A 276 Type 410	1
8	Gland	Brass	IS 6912 Gr. FLB	1
9	Lever	Stainless Steel	Type 304	1
10	Nut	Carbon Steel	– – –	1
11	Screen	Stainless Steel	Type 304	1
12	Bottom Cover	Bronze	IS 318 Gr. LTB 2	1
13	Flare Nut	Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2	15	87	1/2″	34	82
3/4	20	114	3/4″	36	82
1	25	126	1″	44	82

~ ±10

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1085B Bronze Ball Valve With Flare Nut (Mixed Ends)

Salient Features

- Screwed Ends to BSP Female Inlet and 5/8″ BSP Male Outlet provided with a Flare Nut.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel Powder Coated and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

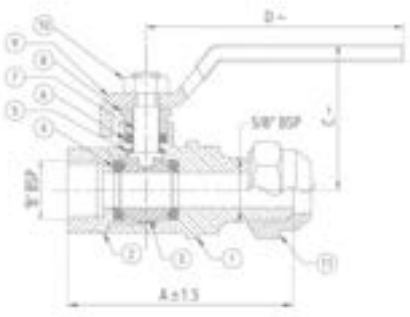


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (300 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Bonnet	Bronze	IS 318 Gr. LTB 2	1
3	Ball	Stainless Steel	ASTM A 276 Type 304	1
4	Body Seat Ring	PTFE	– – –	2
5	Thrust Ring	PTFE	– – –	1
6	Packing Ring	PTFE	– – –	–
7	Stem	Stainless Steel	Type 304	1
8	Gland	Brass	IS 6912 Gr. FLB	1
9	Lever	Stainless Steel	Type 304	1
10	Nut	Carbon Steel	– – –	1
11	Flare Nut	Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~	D ~
1/2	15	78	1/2″	52	82
3/4	20	86	3/4″	52	82
1	25	88	1″	52	82

~ ±10

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1086 Stainless Steel Thermodynamic Steam Trap (Screwed)

Salient Features

- Screwed Female Ends to BSPT.
- Superior Quality Investment Casting.
- Provided with integral strainer.
- Stainless Steel (S.S 304) 0.5 mm hole diameter perforated sheet screen for trouble free service.
- Mirror finished moving disc.

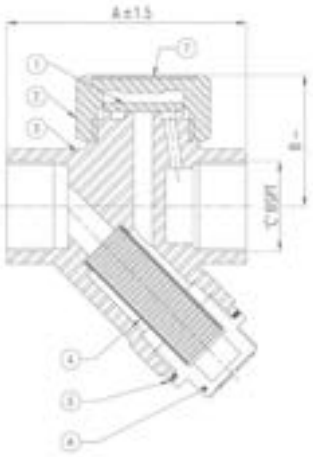


Test Pressure (Hydrostatic) :
Shell : 51 bar (740 psig)
Maximum Working Pressure (Steam) : 31 bar (450 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Disc	Stainless Steel	ASTM A 276 Type 410	1
2	Cover	Stainless Steel	ASTM A 743 Gr. CA40	1
3	Body	Stainless Steel	ASTM A 743 Gr. CA40	1
4	Screen (Ø0.5 mm Perforation)	Stainless Steel	Type 304	1
5	Gasket	PTFE / Steam Jointing Sheet	– – – / IS 2712 Gr. W/3	1
6	Plug	Stainless Steel	ASTM A 743 Gr. CA40	1
7	Name Plate	Aluminium	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/2	15	77	47	1/2″
3/4	20	77	47	3/4″
1	25	86	47	1″

~ ±10

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1087 Bronze Double Regulating Balancing Valve (Screwed) With Nozzle, PN 16

Salient Features



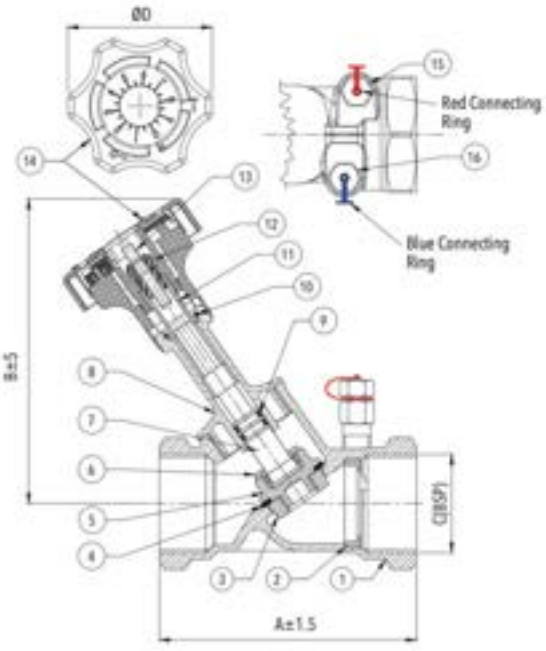
- Design Reference Standard BS 7350.
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Precise double regulation.
- Tamper proof setting with a lock shield.
- Swift operation with un-breakable Nylon Handwheel.
- Turn Indicator on the Handwheel to help in Line balancing.
- PTFE sealing disc to ensure a proper shut off.
- Provided with Inlet / Outlet pressure test cocks.
- Facilitates system design, hence saves energy.
- Easy to install and set.
- Accentuates systematic commissioning of the plant for an optimal operation.
- Protruded design suitable for easy installation.

Test Pressure (Hydrostatic) – Shell : 24 bar (350 psig)
Maximum Operating Pressure (Hydrostatic) : 16 bar (230 psig)
Working Temperature : -10°C to 85°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze	IS 318 Gr. LTB2	1
2	Retaining Ring	Brass	IS 319 Gr. 2	1
3	Disc Guide	Brass	IS 319 Gr. 2	1
4	Disc Facing	PTFE / Brass	– / IS 319 Gr. 2	1
5	Disc	Brass	IS 319 Gr. 2	1
6	Disc Nut	Brass	IS 319 Gr. 2	1
7	Stem	Brass	IS 319 Gr. 2	1
8	Bonnet	Brass / Bronze	IS 319 Gr. 2 / IS 318 Gr. LTB2	1
9	O-Ring	EPDM	– – –	2
10	Circlip	Stainless Steel	Type 304	1
11	Connecting Rod	Brass	IS 319 Gr. 2	1
12	Connecting Screw	Stainless Steel	Type 304	1
13	Internal Hex. Screw	Stainless Steel	Type 304	1
14	Handwheel Assy.	Nylon	– – –	1
15	Exhaust Nozzle	Brass	IS 319 Gr. 2	1
16	Exhaust Nozzle	Brass	IS 319 Gr. 2	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ±5	C	ØD
1/2	15	87	108	1/2″	70
3/4	20	96	110	3/4″	70
1	25	100	133	1″	70
1.1/4	32	114	133	1.1/4″	70
1.1/2	40	125	147	1.1/2″	70
2	50	146	149	2″	70

Notes : For sizes 15mm & 20mm, the disc facing shall be of Brass.
For sizes 40mm & 50mm, the bonnet shall be of Bronze.

Flow Characteristics Of Balancing Valve

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1087A Cast Iron Double Regulating Balancing Valve (Flanged) With Nozzle

Salient Features

- Design Standard BS 7350.
- Precise double regulation.
- Tamper proof setting.
- Handwheel Operated.
- Low noise flow.
- Can be made available with or without drain cocks.
- Flanged ends to BS 4504 Section 3.2 PN 16.
- EPDM Rubber sealing for a soft shut off.

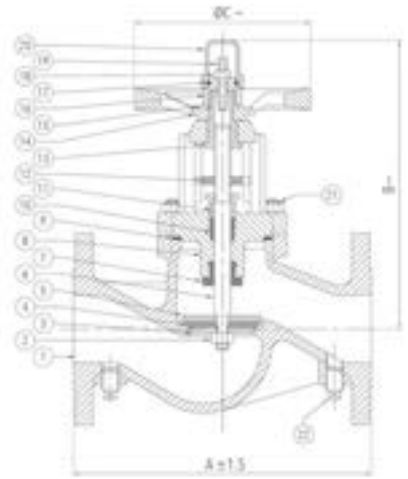


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Maximum Operating Pressure (Hydrostatic) : 16 Bar at an ambient temperature upto 45°C
Maximum Working Temperature : 110°C

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	Nut	Carbon Steel	– – –	1
3	Washer	Carbon Steel	– – –	1
4	Disc Facing	EPDM Rubber	IS 5192 – 1	1
5	Disc Holder	Carbon Steel	– – –	1
6	Stem	Stainless Steel	ASTM A 276 Type 410.	1
7	Stem Seal	EPDM Rubber	IS 5192 – 1	1
8	Bonnet	Cast Iron	IS 210 Gr. FG 200	1
9	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
10	Gland Packing	PTFE	– – –	–
11	Gland	Stainless Steel	ASTM A 276 Type 410.	1
12	Indicator	Carbon Steel	– – –	1
13	Sleeve	S.G Iron	IS 1865 Gr. 400 / 15	1
14	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
15	Washer	Carbon Steel	– – –	1
16	Sleeve Nut	Stainless Steel	ASTM A 276 Type 410.	1
17	'O' Ring	Nitrile Rubber	– – –	1
18	Nut	Carbon Steel	– – –	1
19	Adjusting Stud	Carbon Steel	– – –	1
20	End Cap	Cast Iron	IS 210 Gr. FG 200	1
21	Studs & Nuts	Carbon Steel	– – –	4 Each
22	Plug	Bronze	IS 318 Gr. LTB2	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	ØC ~
2 1/2	65	290	286	170
3	80	304	294	170
4	100	350	356	200
5	125	400	380	225
6	150	480	475	256
8	200	600	625	300
10	250	730	660	400
12	300	850	720	400

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~ ±10

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1088 Cast Steel Three Piece Design Ball Valve, Class-150 (Screwed)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

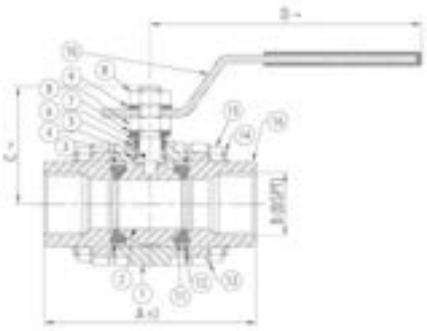


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440psig)
Seat : 21kg/cm²g (300 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Steel	ASTM A 216 Gr. WCB	1
2	Ball	Stainless Steel	ASTM A 276 Type 304 / ASTM A 351 Gr. CF8	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A 276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A 276 Type 304	1
7	Cup Washer	Stainless Steel	ASTM A 276 Type 304	2
8	Nut	H.T Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Cast Steel	ASTM A 216 Gr. WCB	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	B	C ~	D ~
1/2	15	69	1/2″	38	112
3/4	20	73	3/4″	40	125
1	25	95	1″	57	168
1 1/4	32	105	1 1/4″	65	168
1 1/2	40	115	1 1/2″	75	177
2	50	128	2″	80	220

~ ±10

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1089 Cast Steel Three Piece Design Ball Valve, Class-150 (Flanged)

Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ANSI B16.5 Class-150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

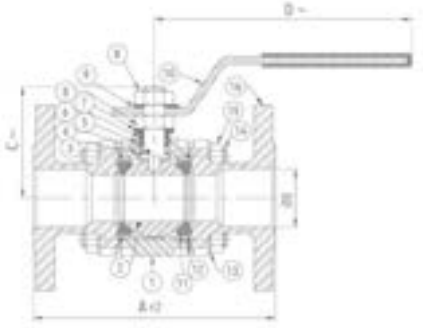


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Seat : 21kg/cm²g (30 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam, Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Steel	ASTM A 216 Gr. WCB	1
2	Ball	Stainless Steel	ASTM A 276 Type 304 / ASTM A 351 Gr. CF8	1
3	Thrust Washer	PTFE 35% Carbon Filled	– – –	1
4	Stem	Stainless Steel	ASTM A 276 Type 316	1
5	Packing Ring	PTFE 35% Carbon Filled	– – –	2
6	Gland	Stainless Steel	ASTM A 276 Type 304	1
7	Cup Washer	Stainless Steel	ASTM A 276 Type 304	2
8	Nut	H.T Steel	ASTM A 194 Gr. 2H	2
9	Spring Washer	Spring Steel	EN 47 Gr. B	1
10	Lever	Carbon Steel	– – –	1
11	Body Seat Ring	PTFE	– – –	2
12	Gasket	PTFE	– – –	2
13	Spring Washer	Spring Steel	EN 47 Gr. B	8
14	Studs	Alloy Steel	ASTM A 193 Gr. B7	4
15	Nuts	H.T Steel	ASTM A 194 Gr. 2H	8
16	End Connector	Cast Steel	ASTM A 216 Gr. WCB	2



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±2	ØB	C ~	D ~
1/2	15	108	15	38	150
3/4	20	117	20	40	150
1	25	127	25	57	160
1 1/4	32	140	32	65	160
1 1/2	40	165	40	75	202
2	50	178	50	80	202
2 1/2*	65	191	63.5	125	250
3*	80	203	76	137	335
4*	100	229	100	158	335

~ ±10
*Full Bore

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1090 Cast Iron Bucket Type Steam Trap (Screwed)

Salient Features

- Screwed Female Ends to BSP.
- Inverted Bucket Type, Bolted Cover.
- With Stainless Steel (S.S 304) renewable working parts.

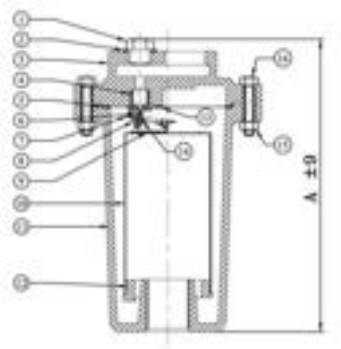


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Maximum Working Pressure : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

Suitable For
Steam

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Plug	Stainless Steel	ASTM A 276 Type 410	1
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
3	Cover	Cast Iron	IBR 86 To 93 Gr. A	1
4	Valve Seat	Stainless Steel	ASTM A 276 Type 304	1
5	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	1
6	Valve	Stainless Steel	Type 304	1
7	Valve Lever	Stainless Steel	Type 304	1
8	Valve Hook	Stainless Steel	Type 304	1
9	Bucket Hook	Stainless Steel	Type 304	1
10	Bucket	Stainless Steel	Non-Rustable	1
11	Body	Cast Iron	IBR 86 To 93 Gr. A	1
12	Bucket Ring	Cast Iron	IBR 86 To 93 Gr. A	1
13	Valve Hook Plate	Stainless Steel	Type 304	1
14	Circlip Lock	Spring Steel	Non-Rustable	1
15	Nuts	Carbon Steel	– – –	As Reqd.
16	Bolts	Carbon Steel	– – –	As Reqd.



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±9	B
1/2	15	170	1/2″
3/4	20	210	3/4″
1	25	275	1″
1 1/4	32	372	1 1/4″
1 1/2	40	372	1 1/2″
2	50	412	2″

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1091 Cast Steel Sleeve Packed Water Level Gauge (Flanged)

Salient Features



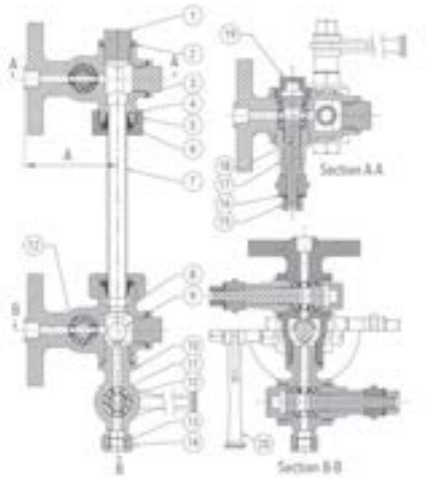
- Flanged End to BS 10 Table 'J'.
- Automatic Shut Off Device in Water Arm.
- Available for both, Right Hand and Left Hand.
- Premium Quality Sleeve, Reinforced by metallic eye holes, is provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

Test Pressure (Hydrostatic) :
Shell : 48 kg/cm²g (700 psig)
Test Pressure (Steam) :
Seat : 24.50 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Plug	Stainless Steel	ASTM A 276 Type 410	3
2	Gasket	Steam Jointing Sheet	IS 2712 Gr. W/3	4
3	Upper Arm	Cast Steel	IBR 73-80 Gr. B	1
4	Cone	Synthetic Rubber	IS 5192-1	2
5	Nut	Stainless Steel	ASTM A 276 Type 410	2
6	Washer	Bronze	IBR 282 (a) (iv) Gr. B	2
7	Glass Tube*	Toughened Glass	– – –	1
8	Lower arm	Cast Steel	IBR 73-80 Gr. B	1
9	Ball	Stainless Steel	ASTM A 276 Type 304	1
10	Drain Valve	Cast Steel	IBR 73-80 Gr. B	1
11	Sleeve Bush	Bronze	IBR 282 (a) (iv) Gr. B	6
12	Sleeve	Moulded Asbestos	– – –	3
13	Nipple	Stainless Steel	ASTM A 276 Type 410	1
14	Union Nut	Stainless Steel	ASTM A 276 Type 410	1
15	Nut	Carbon Steel	– – –	3
16	Name Plate	Brass / Aluminium	– – –	3
17	Bonnet	Stainless Steel	ASTM A 276 Type 410	3
18	Stem	Stainless Steel	ASTM A 276 Type 410	3
19	Lock Nut	Stainless Steel	ASTM A 276 Type 410	3
20	Handle	S.G Iron	IS 1865 / ASTM A 536	3



*Glass Tube is not provided with this product.

Sizes / Dimensions

Size (Inches)	Size (mm)	A
1/2	15	84
3/4	20	99

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1092 Cast Steel Parallel Slide Blow Off Valve (Flanged)

Salient Features

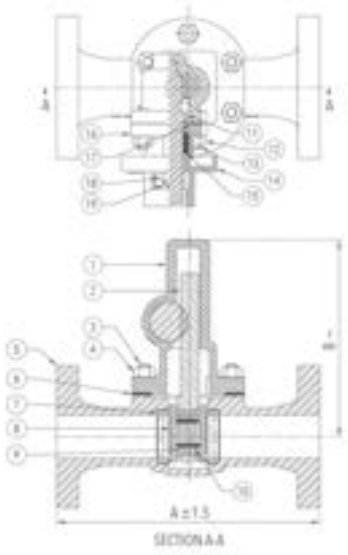


- Flanged Ends to BS 10 Table 'J'.
- Maintains fluid tightness and is easy in operation because of sliding action of discs.
- Discs are kept in close contact with body rings by means of a spring when the valve is under pressure.
- Premium Quality lubricated Gland Packing, Bolted Bonnet.
- Valve is operated by means of Rack and Pinion arrangement, in such a manner that valve is opened fully with half turn of the box key.
- Gland forms a locking guard which prevents removal of the key unless the valve is closed.

Test Pressure (Hydrostatic) :
Shell : 48 kg/cm²g (700 psig)
Test Pressure (Steam) :
Seat : 24.50 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

Suitable For
Steam, Water

Materials



P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Bonnet	Cast Steel	IBR 73 – 80 Gr. B	1
2	Rack	Bronze	IBR 282 (a) (iv) Gr. B	1
3	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd.
4	Nuts	H.T Steel	ASTM A 194 Gr. 2H	As Reqd.
5	Body	Cast Steel	IBR 73 – 80 Gr. B	1
6	Gasket	Steam Joining Sheet	IS 2712 Gr. W/3	1
7	Body Seat Ring	Stainless Steel	ASTM A 276 Type 410	1
8	Male Disc	Stainless Steel	ASTM A 276 Type 410	1
9	Female Disc	Stainless Steel	ASTM A 276 Type 410	1
10	Spring	Stainless Steel	IS 4454 Part 4 Gr. 2	1
11	Pinion	Stainless Steel	ASTM A 276 Type 410	1
12	Nuts	H.T Steel	ASTM A 194 Gr. 2H	As Reqd.
13	Studs	Alloy Steel	ASTM A 193 Gr. B7	As Reqd.
14	Gland	Bronze	IBR 282 (a) (iv) Gr. B	1
15	Gland Packing	Braided Graphite	IS 4687	–
16	Stuffing Box	Bronze	IBR 282 (a) (iv) Gr. B	1
17	Gasket	Steam Joining Sheet	IS 2712 Gr. W/3	1
18	Nuts	Alloy Steel	ASTM A 193 Gr. B7	As Reqd.
19	Studs	H.T Steel	ASTM A 194 Gr. 2H	As Reqd.

Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1	25	178	180
1 1/4	32	241	190
1 1/2	40	267	220
2	50	305	244

~ ±10

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1093 Bronze Landing (Fire Hydrant) Valve (Flanged)

Salient Features

- Design Standard IS 5290.
- Confirming to Type A specification.
- Screwed in Bonnet having instantaneous coupling with single outlet.
- PTFE Gland Packing for longer life and smooth operation of stem.
- Large flow way area to get full flow of water.
- Leakage proof by virtue of elastomer seat.
- Smooth operation of blank cap for quick mounting of water pipe.
- Life long rust free service.

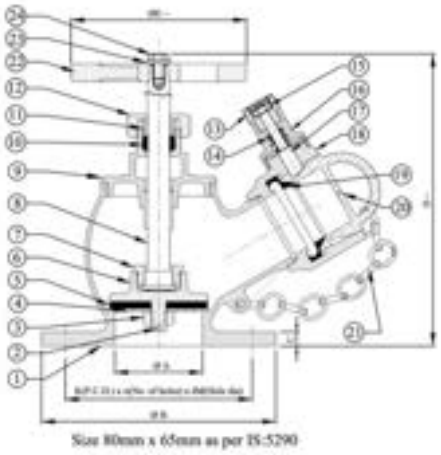


Test Pressure (Hydrostatic) :
Shell : 21 kg/cm²g (300 psig)
Seat : 14 kg/cm²g (200 psig)
Maximum Working Temperature : 110°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Spilt Pin	Brass	– – –	1
3	Disc Nut	Bronze	IS 318 Gr. LTB 2	1
4	Washer	Bronze	IS 318 Gr. LTB 2	1
5	Disc Washer	Rubber	IS 937	1
6	Disc Holder	Bronze	IS 318 Gr. LTB 2	1
7	Check Nut	Bronze	IS 318 Gr. LTB 2	1
8	Stem	Brass	IS 319	1
9	Bonnet	Bronze	IS 318 Gr. LTB 2	1
10	Gland Packing	Asbestos Thread	– – –	–
11	Gland	Brass	IS 319	1
12	Gland Nut	Bronze	IS 318 Gr. LTB 2	1
13	Knob with Cap	Bronze	IS 318 Gr. LTB 2	1
14	Spring	Phosphorous Bronze	IS 7608	1
15	Cam Tooth Nut	Bronze	IS 318 Gr. LTB 2	1
16	Cam Housing	Bronze	IS 318 Gr. LTB 2	1
17	Cam Tooth	Brass	IS 319	1
18	Instantaneous Coupling	Bronze	IS 318 Gr. LTB 2	1
19	Washer	Rubber	IS 937	1
20	Blank Cap	Aluminium / ABS Plastic	IS 617 / – – –	1
21	Chain	Carbon Steel	– – –	1
22	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
23	Washer	Carbon Steel	– – –	1
24	Bolt	Carbon Steel	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	ØA	ØB	C +3	D ~	ØE ~
3	80	75	200	12	240	150

~ ±10

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1093A Stainless Steel S.S 304 Landing (Fire Hydrant) Valve (Flanged)

Salient Features

- Design Reference Standard IS 5290.
- Confirming to Type A specification.
- Screwed in Bonnet having instantaneous coupling with single outlet.
- PTFE Gland Packing for longer life and smooth operation of stem.
- Large flow way area to get full flow of water.
- Leakage proof by virtue of elastomer seat.
- Smooth operation of blank cap for quick mounting of water pipe.
- Life long rust free service.

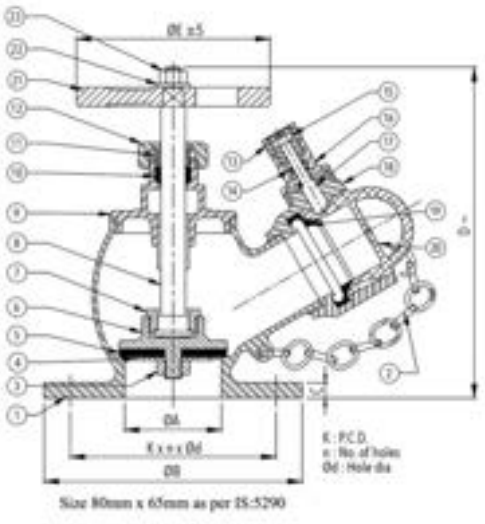


Test Pressure (Hydrostatic) :
Shell : 21 kg/cm²g (300 psig)
Seat : 14 kg/cm²g (200 psig)
Maximum Working Temperature : 110°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Stainless Steel	IS 3444 Gr. 1*	1
2	Chain	Carbon Steel	– – –	1
3	Disc Nylock Nut	Carbon Steel	– – –	1
4	Washer	Stainless Steel	IS 6603 Gr. X04Cr19Ni9	1
5	Disc Washer	Rubber	IS 937	1
6	Disc Holder	Stainless Steel	IS 3444 Gr. 1*	1
7	Check Nut	Stainless Steel	IS 3444 Gr. 1*	1
8	Stem	Stainless Steel	IS 6603 Gr. X04Cr19Ni9	1
9	Bonnet	Stainless Steel	IS 3444 Gr. 1*	1
10	Gland Packing	Asbestos Thread	– – –	–
11	Gland	Stainless Steel	IS 6603 Gr. X04Cr19Ni9	1
12	Gland Nut	Stainless Steel	IS 3444 Gr. 1*	1
13	Knob with Cap	Stainless Steel	IS 3444 Gr. 1*	1
14	Spring	Stainless Steel	IS 4454 Part 4 Gr. 2	1
15	Cam Tooth Nut	Stainless Steel	IS 6603 Gr. X04Cr19Ni9	1
16	Cam Housing	Stainless Steel	IS 3444 Gr. 1*	1
17	Cam Tooth	Stainless Steel	IS 3444 Gr. 1*	1
18	Instantaneous Coupling	Stainless Steel	IS 3444 Gr. 1*	1
19	Washer	Rubber	IS 937	1
20	Blank Cap	Aluminium / ABS Plastic	IS 617 / – – –	1
21	Handwheel	Cast Iron	IS 210 Gr. FG 200	1
22	Washer	Carbon Steel	– – –	1
23	Nut	Carbon Steel	– – –	1



* or equivalent grade

Sizes / Dimensions

Size (Inches)	Size (mm)	ØA	ØB	C	D~	ØE±5	K	n	Ød
3	80	75	200	12	230	150	160	4	19

~ ±10

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1094 Bronze Spring Loaded Safety Relief Valve, Open Discharge (Screwed)

Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Open Discharge Type.
- Metal to Rubber contact seating.

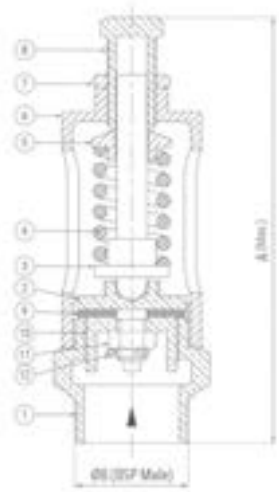


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Seat : 10.55 kg/cm²g (150 psig)
Set Pressure Range : 0 – 10 kg/cm²g (Max.)
Maximum Working Temperature : 80°C

Suitable For
Water, Oil, Air

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Stem	Bronze	IS 318 Gr. LTB 2	1
4	Spring	Spring Steel	EN 47 Gr. B	1
5	Spring Disc	Bronze	IS 318 Gr. LTB 2	1
6	Chamber	Bronze	IS 318 Gr. LTB 2	1
7	Check Nut	Bronze	IS 318 Gr. LTB 2	1
8	Adjusting Screw	Bronze	IS 318 Gr. LTB 2	1
9	Disc Facing	Nitrile Rubber	IS 5192 – 1	1
10	Guide	Bronze	IS 318 Gr. LTB 2	1
11	Nut	Brass	– – –	1
12	Split Pin	Brass	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A (Max.)	B
1/2*	15*	170	1/2″
3/4*	20*	170	3/4″
1*	25*	190	1″
1 1/4	32	203	1 1/4″
1 1/2	40	225	1 1/2″
2	50	265	2″

* For size 15, 20 & 25 the body is of Forged Brass
NOTE : Also available in Metal to Metal contact seating.

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1094A Bronze Spring Loaded Safety Relief Valve, Enclosed Discharge (Screwed)

Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO7.
- Enclosed Discharge Type.
- Metal to Rubber contact seating.

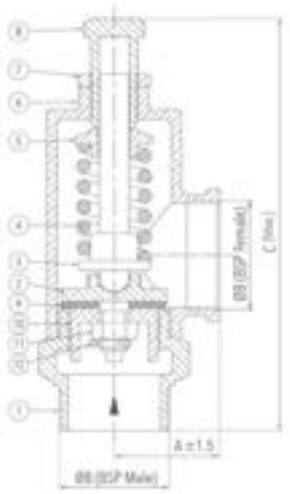


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Seat : 10.55 kg/cm²g (150 psig)
Set Pressure Range : 0-10 kg/cm²g (Max.)
Maximum Working Temperature : 80°C

Suitable For
Water, Oil, Air

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Bronze / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Stem	Bronze	IS 318 Gr. LTB 2	1
4	Spring	Spring Steel	EN 47 Gr. B	1
5	Spring Disc	Bronze	IS 318 Gr. LTB 2	1
6	Chamber	Bronze	IS 318 Gr. LTB 2	1
7	Check Nut	Bronze	IS 318 Gr. LTB 2	1
8	Adjusting Screw	Bronze	IS 318 Gr. LTB 2	1
9	Disc Facing	Nitrile Rubber	IS 5192 – 1	1
10	Guide	Bronze	IS 318 Gr. LTB 2	1
11	Nut	Brass	– – –	1
12	Split Pin	Brass	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B	C ~
1/2*	15*	33	1/2″	170
3/4*	20*	38.5	3/4″	170
1*	25*	45	1″	190
1 1/4	32	45	1 1/4″	203
1 1/2	40	47.5	1 1/2″	225
2	50	57	2″	265

* For size 15, 20 & 25 the body is of Forged Brass
NOTE : Also available in Metal to Metal contact seating.

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1095 Forged Brass Air Release Valve (Screwed)

Salient Features

- Screwed male end as per IS 554 / BS 21 / ISO 7.
- Chrome plated forged brass body and cover.
- Full bore.
- Sleek in design, ease of installation.
- Handy device used to release entrapped air in any piping system.
- Smooth inner valves reduce pressure loss.
- Maintains system flow efficiency.
- Brilliant aesthetic look.
- Ergonomic design.

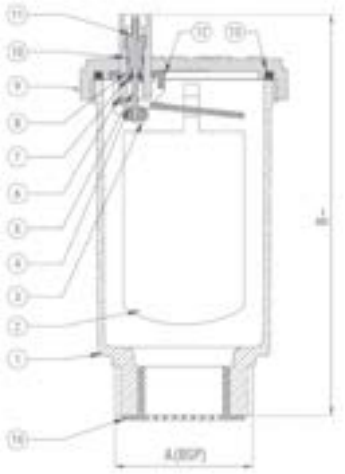


Test Pressure (Hydrostatic) :
Shell : 15 bar (220 psig)
Seat : 10 bar (150 psig)
Maximum Working Temperature : 110°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Forged Brass (Chrome Plated)	IS 6912 Gr. FLB	1
2	Float	Polypropylene	– – –	1
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 (Chrome Plated)	IS 6912 Gr. FLB	1
10	Ring	Nitrile Rubber	IS 5192 – 1	1
11	Spring	Stainless Steel	Type 304	1
12	Bracket	Polypropylene	– – –	1
13	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
14	Strainer	Plastic	– – –	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

~ ±10

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1096 Ductile Iron Sluice Valve PN 1.6 (Flanged)

Salient Features

- Design Standard IS 14846 PN 1.6.
- Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Rigid and Sturdy design.
- Handwheel Operated.
- Flange Ends as per IS 1538.

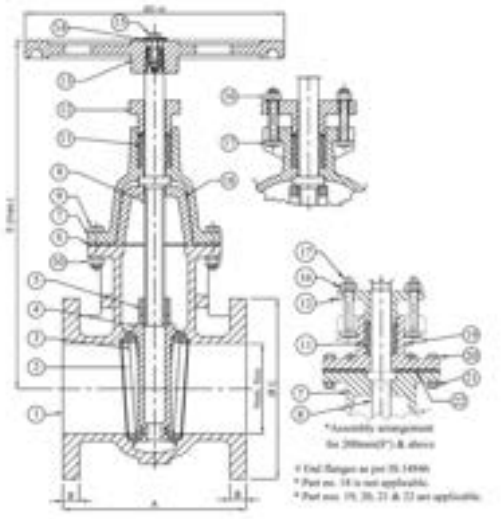


Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 45°C

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Ductile Iron	IS 1865 Gr. SG 500/7	1
2	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	2
3	Wedge Ring	Bronze	IS 318 Gr. LTB 2	2
4	Wedge	Ductile Iron	IS 1865 Gr. SG 500/7	1
5	Stem Bush	Bronze	IS 318 Gr. LTB 2	1
6	Gasket	Rubber	IS 638 Type B	1
7	Bonnet	Ductile Iron	IS 1865 Gr. SG 500/7	1
8	Stem	Stainless Steel	IS 6603 Gr. 12 Cr. 12	1
9	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	To Suit
10	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit
11	Packing	Hemp & Jute	IS 5414	–
12	Gland Flange	Ductile Iron	IS 1865 Gr. SG 500/7	1
13	Handwheel	Ductile Iron	IS 1865 Gr. SG 500/7	1
14	Washer	Carbon Steel	– – –	1
15	Bolt	Carbon Steel	IS 1363 Part 1 Class 4.6	1
16	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	2
17	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	2
18	Thrust Plate	Ductile Iron	IS 1865 Gr. SG 500/7	1
19	Stuffing Box	Ductile Iron	IS 1865 Gr. SG 500/7	1
20	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	To Suit
21	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	To Suit
22	Gasket	Rubber	IS 638 Type B	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A	B	ØC	ØD ±5	E (Max.)
2#	50#	178 ±2	16 +2	165 (+1.5/-1.0)	280	365
2 1/2#	65#	190 ±2	16 +2	185 (+1.5/-1.0)	280	380
3	80	203 ±2	21 ±3	200 ±4.5	280	425
4	100	229 ±2	22 ±3	220 ±4.5	360	470
5	125	254 ±2	22.5 ±3	250 ±4.5	360	485
6	150	267 ±2	23 ±3	285 (+5.5/-2.5)	360	595
8*	200*	292 ±3	24.5 ±3	340 (+5.5/-2.5)	450	725
10*	250*	330 ±3	26 ±3	395 (+5.5/-2.5)	640	835

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Size (Inches)	Size (mm)	A	B	ØC	ØD ±5	E (Max.)
12*	300*	356 ±3	27.5 ±3	445 (+5.5/-2.5)	640	910

Flanges as per IS 14846.
* For size 200, 250 and 300 part number 18 is not applicable.

NOTE : Valves are also available with extended stem, Pad lock arrangement, Limit switch and Brass spindle at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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