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

Salient Features

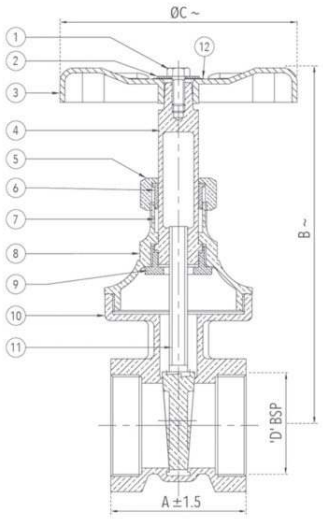
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat.
- Forged Brass Bonnet, Wedge, Stem and Gland Nut.
- Body designed for convenient fitting where space constraint is the factor.
- Designed sheet metal handwheel for a firm grip and convenient 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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1008B Forged Brass Ball Valve (Screwed)

Salient Features

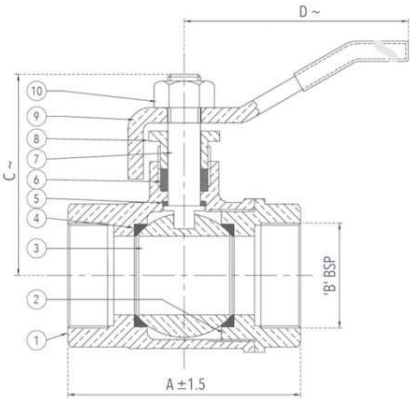
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Forged Brass Hard Chrome Plated Ball.
- Premium Quality PTFE Gland Packing and Seating.
- Chrome Finish.

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 (Hard Chrome Plated)	IS 6912 Gr. FLB	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



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

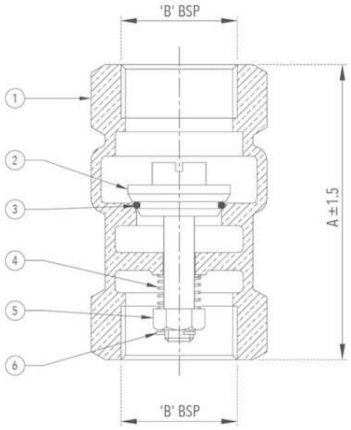
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design, Integral Seat.
- Meant for Vertical Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Spring Loaded and 'O' Ring Type.
- Also available with metal to metal seating.

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

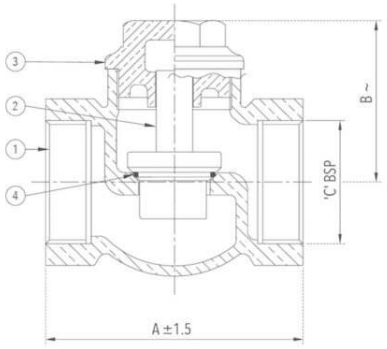
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines only.
- Disc is guided in Body as well as in 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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1035 Bronze Gate Valve (Screwed)

Salient Features

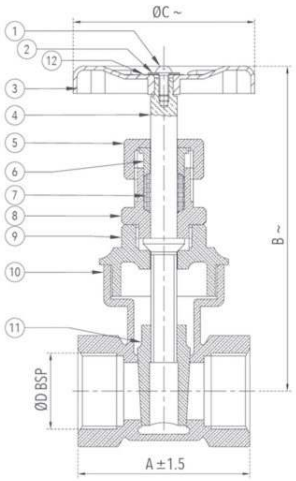
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Provision for re-packing 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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1040A Bronze Compact Pressure Reducing Valve (Screwed)

Salient Features

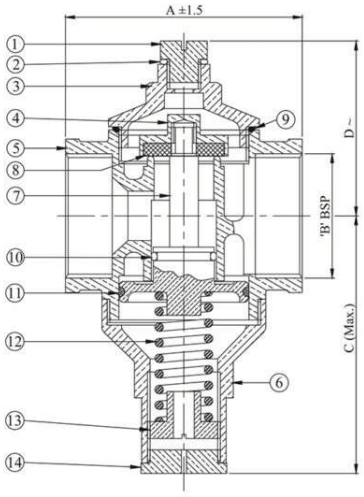
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install 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

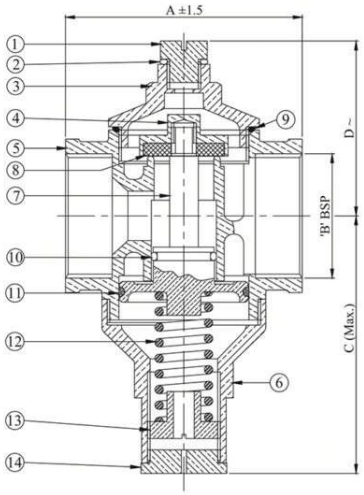
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install 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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1053A Forged Brass Y-Type Strainer (Screwed) PN 25

Salient Features

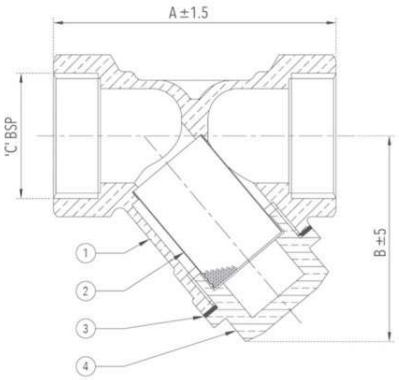
- Screwed Female Ends to BSP.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

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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1069 Cast Iron Y-Type Strainer (Screwed)

Salient Features

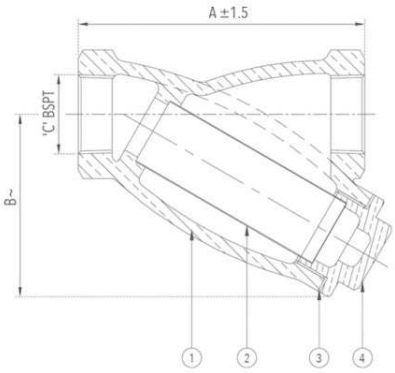
- Screwed Female Ends to BSPT.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and bonnet.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer highly efficient in performance.

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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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.

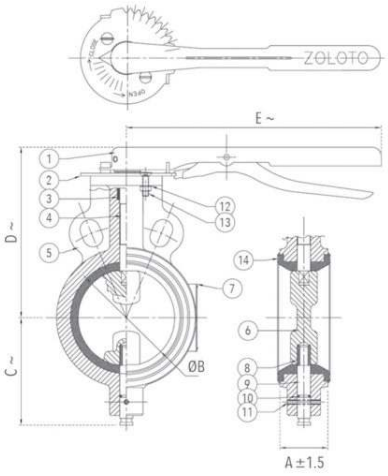
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

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.

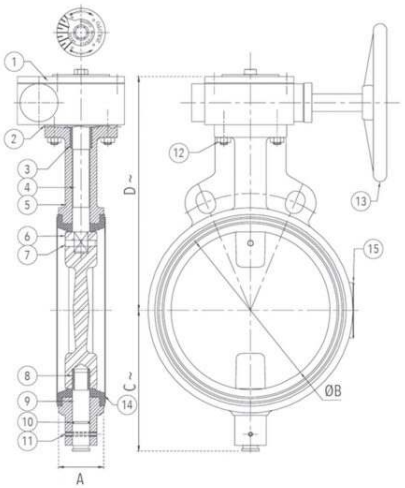
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

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.

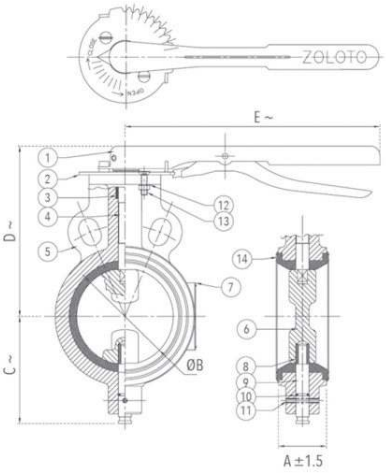
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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.

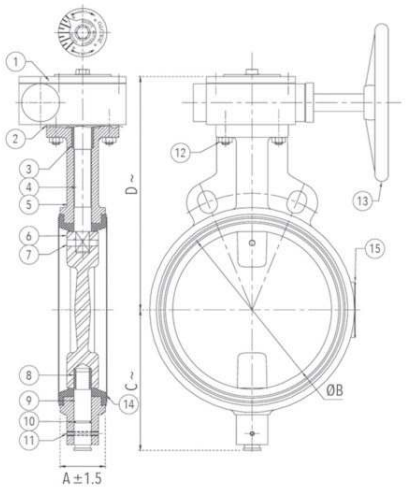
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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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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.

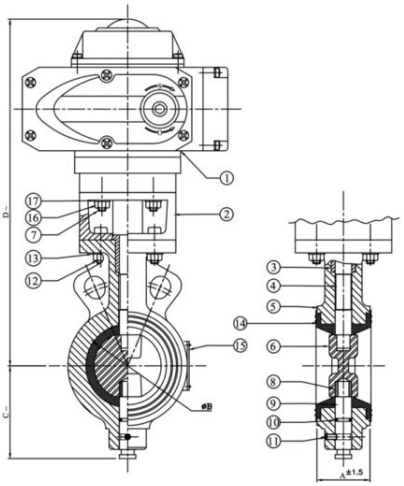
PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

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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1079B Cast Iron Sluice Valve PN 1.6 (Flanged)

IS 14846

Salient Features

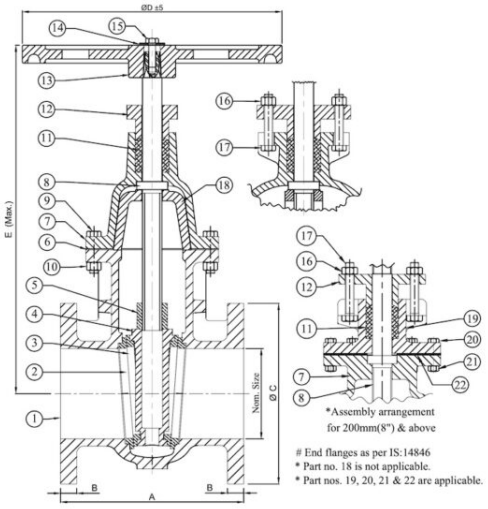
- Design Standard IS 14846 PN 1.6.
- Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Rigid and Sturdy design.
- Handwheel Operated.
- Flange Ends as per IS 1538.

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

Salient Features

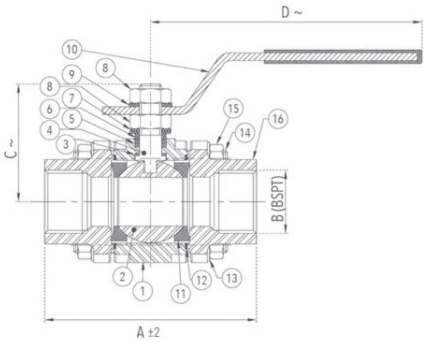
- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

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

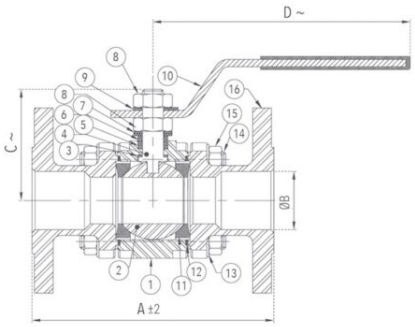
- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ASME B B16.5 Class-150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

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

Salient Features

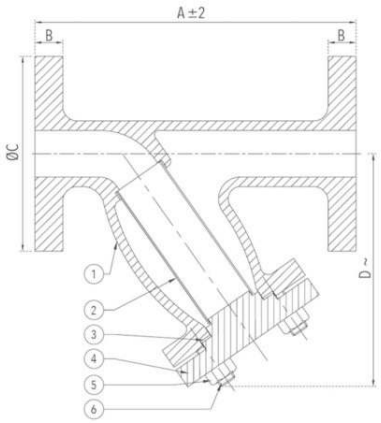
- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø3 mm Perforation) is guided in body and cover.
- Large screening area makes the strainer efficient in performance.
- Minimum pressure drop inside the body due to streamlined body contours.

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

Salient Features

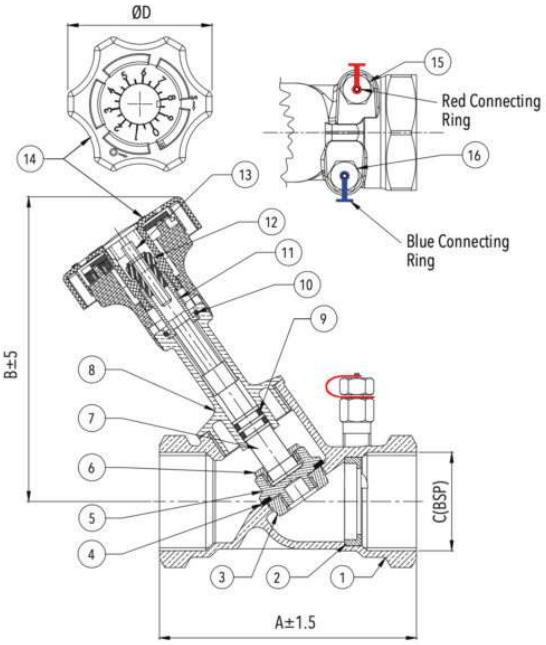
- Design Reference Standard BS 7350.
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Precise double regulation.
- Tamper proof setting with a lock shield.
- Swift operation with un-breakable Nylon Handwheel.
- Turn Indicator on the Handwheel to help in Line balancing.
- PTFE sealing disc to ensure 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

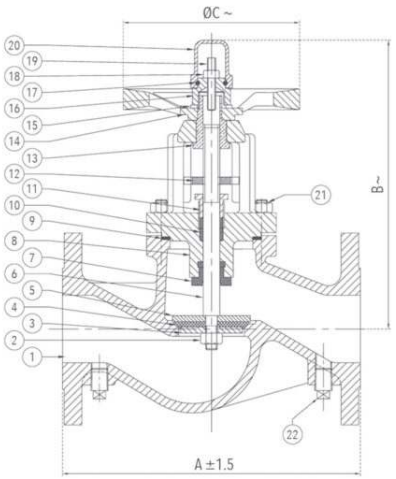
- Design Standard BS 7350.
- Precise double regulation.
- Tamper proof setting.
- Handwheel Operated.
- Low noise flow.
- Can be made available with or without drain cocks.
- Flanged ends to BS 4504 Section 3.2 PN 16.
- EPDM Rubber sealing for a soft shut off.

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

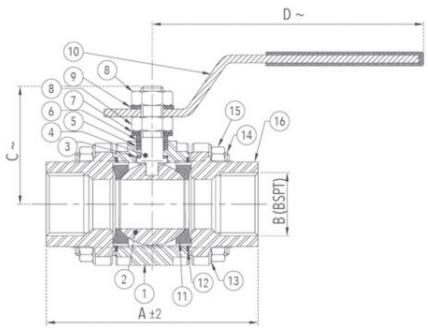
- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

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

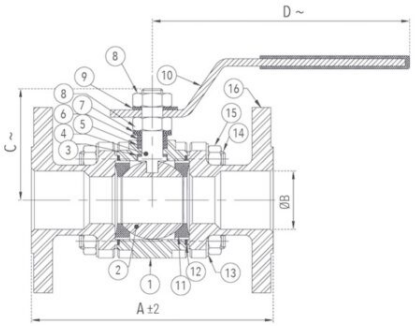
- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ANSI B16.5 Class-150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

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

Salient Features

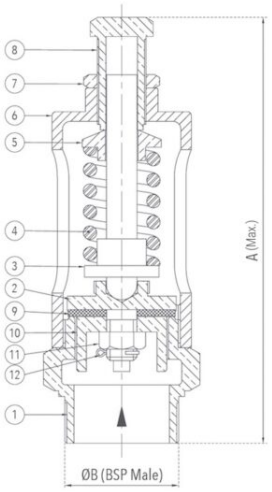
- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Open Discharge Type.
- Metal to Rubber contact seating.

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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1095 Forged Brass Air Release Valve (Screwed)

Salient Features

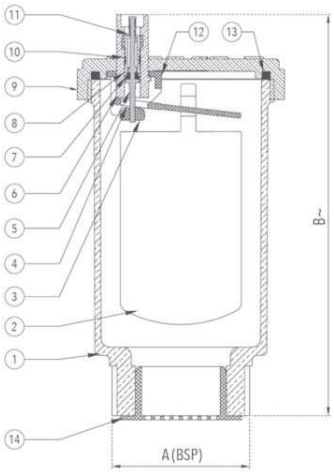
- Screwed male end as per IS 554 / BS 21 / ISO 7.
- Chrome plated forged brass body and cover.
- Full bore.
- Sleek in design, ease of installation.
- Handy device used to release entrapped air in any piping system.
- Smooth inner valves reduce pressure loss.
- Maintains system flow efficiency.
- Brilliant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