

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.

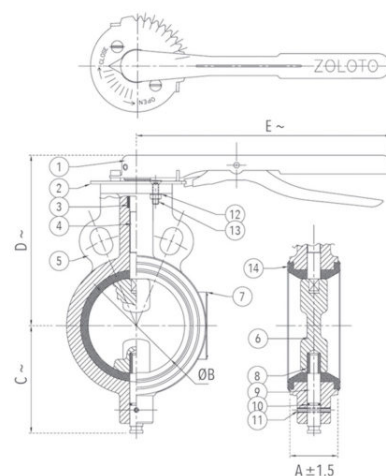
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

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	53	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.

NOTE : Valves upto 150mm can also be provided with limit switch (Non-ISI) and gear arrangement at nominal extra cost.

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

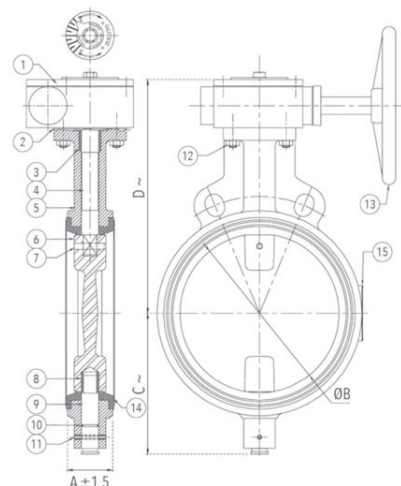
Maximum Working Temperature : 90°C

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. 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	ØB	C ~	D ~
8	200	60 ±1.5	201.6	180	295
10	250	68 ±1.5	252.2	220	320
12	300	78 ±1.5	301.3	250	344
14 [#]	350	85 ±3	352	280	380
16 [#]	400	96 ±3	393.8	300	410

Size (Inches)	Size (mm)	A	ØB	C ~	D ~
18 [#]	450	108 ±3	442	330	466
20 [#]	500	127 ±4	504.2	415	600
24 [#]	600	146.5 ±4	593	440	610

~ ±10

Non-ISI with Pressure Rating PN-1.0

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.

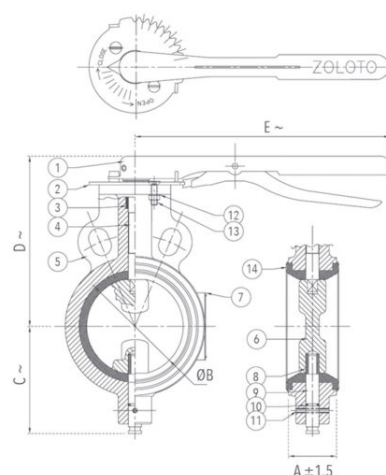
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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	53	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.

NOTE : Valves upto 150mm can also be provided with limit switch (Non-ISI) and gear arrangement at nominal extra cost.

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.

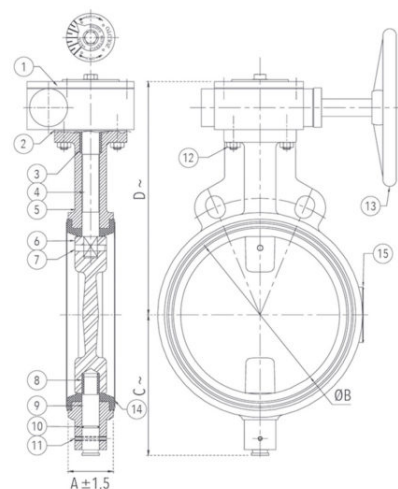
PN 1.6 -
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

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

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

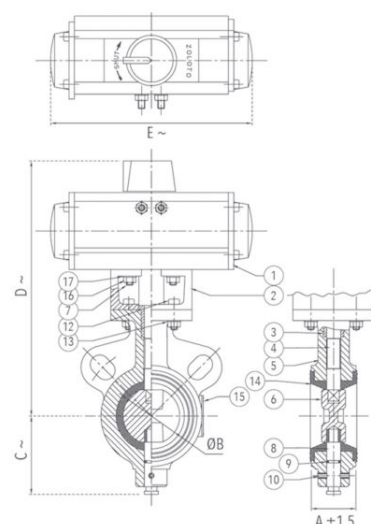
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Materials

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	53	73	235	185	PD 50
2 1/2	65	46	67	80	250	185	PD 50



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

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 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.
- Compliant with B.M.S (Building Management System).
- Can be provided with extended wire for ease of installation.
- IP 67 protection available for outdoor application.
- Inbuilt micro switch position feedback.
- Input Voltage – 24/230 V 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.

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

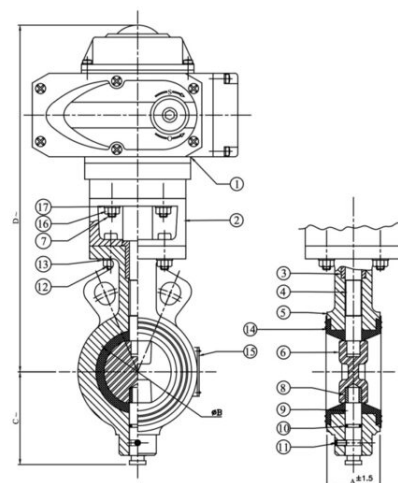
PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

Suitable For

Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Electric 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 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	---	1
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



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	ØB	C ~	D ~	Actuator Model No.
1 1/2	40	33	40.6	57	265	ZSY 1
2	50	43	53	73	275	ZSY 1
2 1/2	65	46	67	80	290	ZSY 1
3	80	46	81.3	88	295	ZSY 1
4	100	52	101	110	325	ZSY 1
5	125	56	127.1	122	372	ZSY 2
6	150	56	151	151	400	ZSY 2
8	200	60	201.6	180	457	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

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

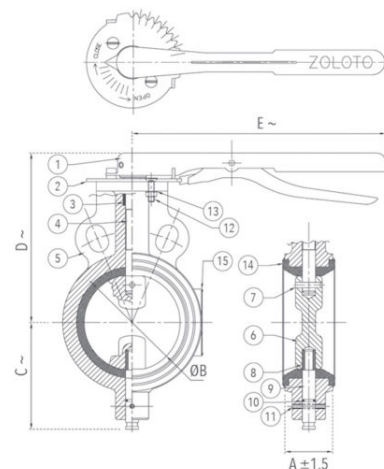
Maximum Working Temperature : 90°C

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 upto 150mm can also be provided with limit switch and gear arrangement at nominal extra cost.

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

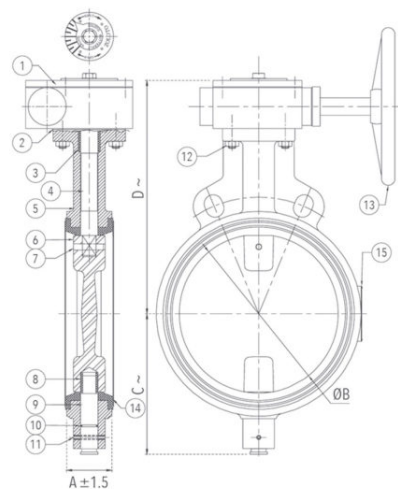
Maximum Working Temperature : 90°C

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

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.

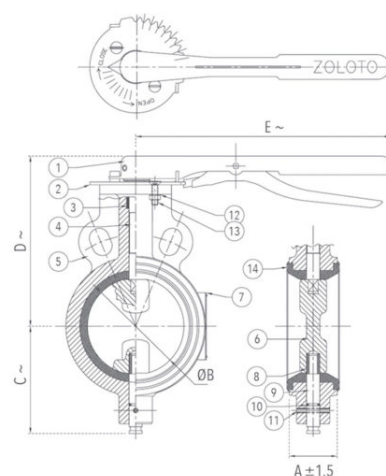
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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

~ ±10

NOTE : Valves upto 150mm can also be provided with limit switch and gear arrangement at nominal extra cost.

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.

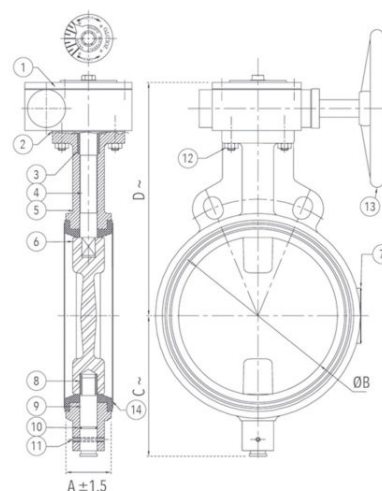
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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

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

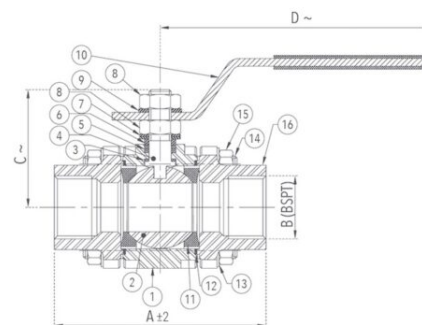
Suitable For

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

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

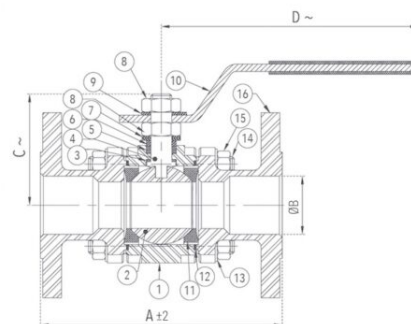
Suitable For

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

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

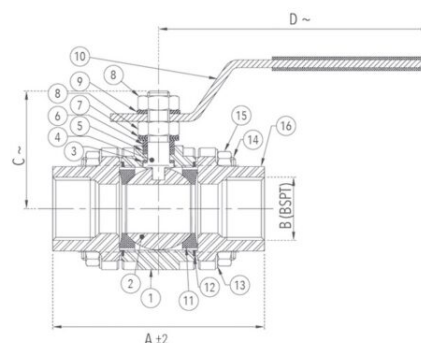
Suitable For

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

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

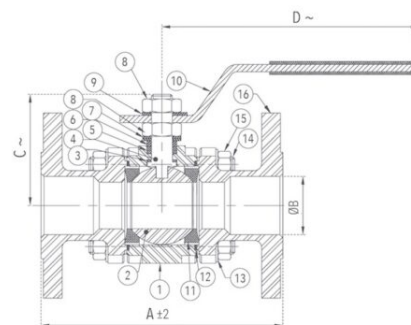
Suitable For

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

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.



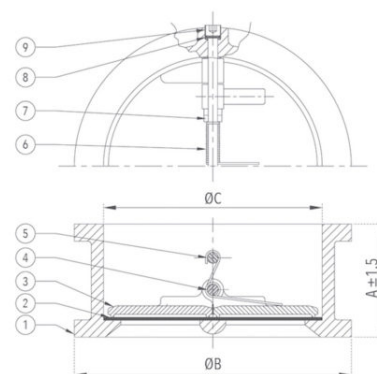
Test Pressure (Hydrostatic) :
Shell : 24.50 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (230 psig)
Maximum Working Temperature : 80°C

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.

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

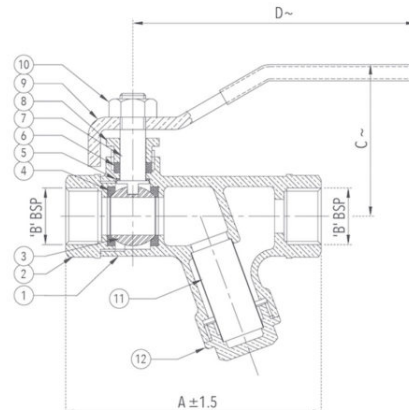
Suitable For

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

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

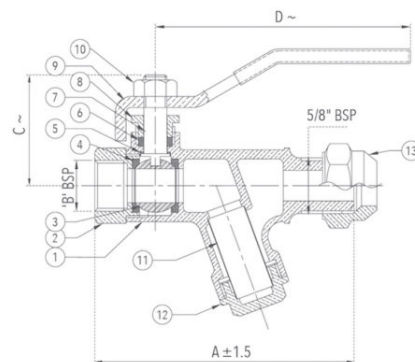
Suitable For

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

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

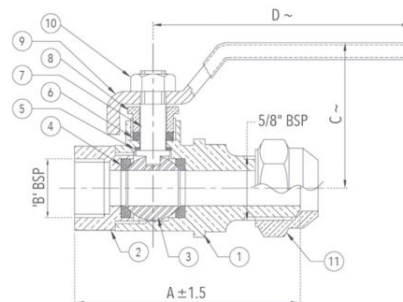
Suitable For

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

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

Salient Features

- Design 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.

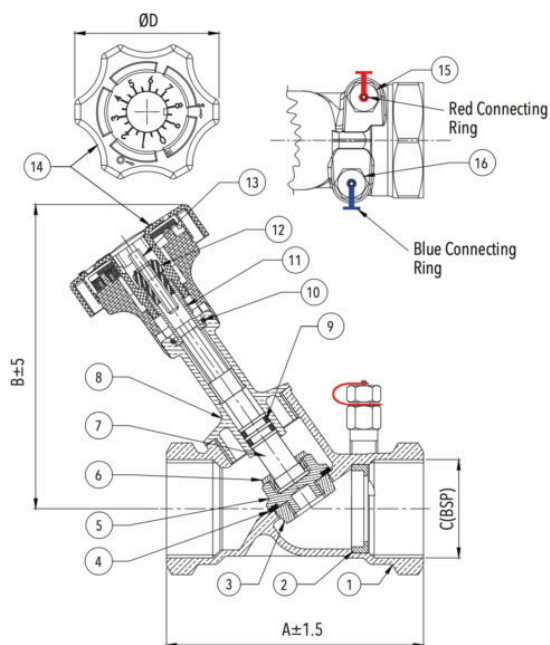
Test Pressure (Hydrostatic) – Shell : 24 bar (350 psig)
Maximum Operating Pressure (Hydrostatic) : 16 bar (230 psig)
Working Temperature : -10°C to 85°C

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

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

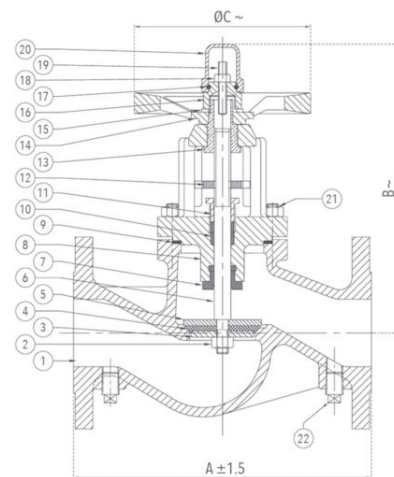
Maximum Working Temperature : 110°C

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

~ ±10