

## 1065 Cast Iron Globe Steam Stop Valve Straight Pattern (Flanged) I.B.R.

### 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/cm<sup>2</sup>g (370 psig)

Working Pressure (Steam) : 13 kg/cm<sup>2</sup>g (185 psig)

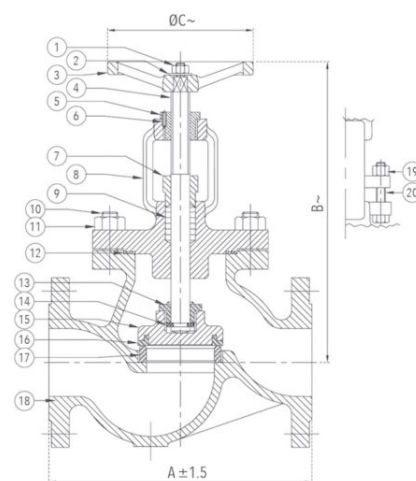
Maximum Working Temperature : 220°C

### 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 Req'd.
11	Nuts	Carbon Steel	IS 1367	As Req'd.
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

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

## 1066 Cast Iron Globe Steam Stop Valve Angle Pattern (Flanged) I.B.R

### 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/cm<sup>2</sup>g (370 psig)

Working Pressure (Steam) : 13 kg/cm<sup>2</sup>g (185 psig)

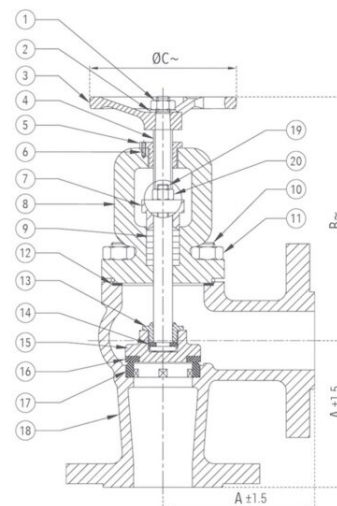
Maximum Working Temperature : 220°C

### 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

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

## 1067 Cast Iron Horizontal Lift Check Valve Straight Pattern (Flanged) I.B.R

### 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/cm<sup>2</sup>g (370 psig)

Working Pressure (Steam) : 13 kg/cm<sup>2</sup>g (185 psig)

Maximum Working Temperature : 220°C

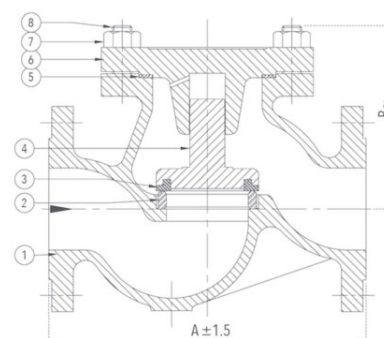
### Suitable For

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

## 1068 Cast Iron Horizontal Lift Check Valve Angle Pattern (Flanged) I.B.R

### 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/cm<sup>2</sup>g (370 psig)

Working Pressure (Steam) : 13 kg/cm<sup>2</sup>g (185 psig)

Maximum Working Temperature 220°C

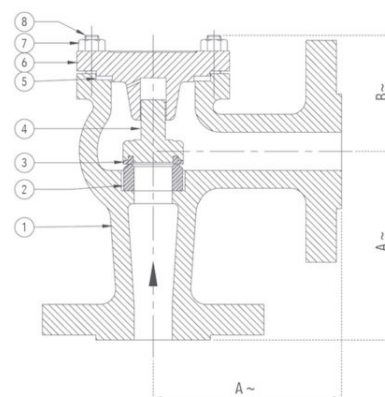
### Suitable For

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

## 1069 Cast Iron Y-Type Strainer (Screwed) I.B.R

### 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/cm<sup>2</sup>g (300 psig)

Working Pressure (Steam) : 10.55 kg/cm<sup>2</sup>g (150 psig)

Maximum Working Temperature : 220°C

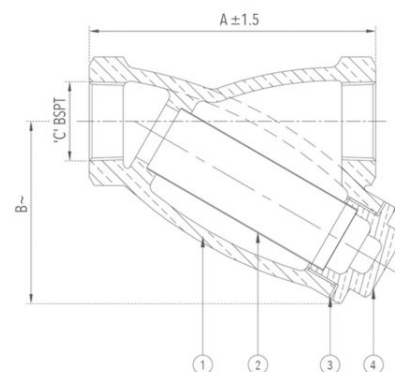
### Suitable For

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

## 1070 Cast Iron Y-Type Strainer (Flanged) I.B.R.

### 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/cm<sup>2</sup>g (300 psig)

Working Pressure (Steam) : 10.55 kg/cm<sup>2</sup>g (150 psig)

Maximum Working Temperature : 220°C

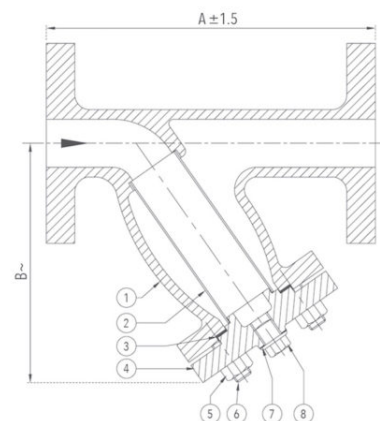
### Suitable For

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



## 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.

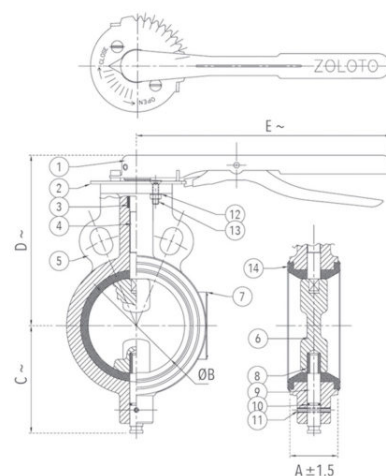
\*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

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

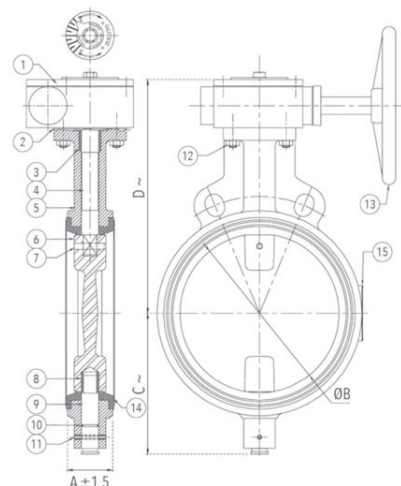
Maximum Working Temperature : 90°C

**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 <sup>#</sup>	350	85 ±3	352	280	380
16 <sup>#</sup>	400	96 ±3	393.8	300	410

Size (Inches)	Size (mm)	A	ØB	C ~	D ~
18 <sup>#</sup>	450	108 ±3	442	330	466
20 <sup>#</sup>	500	127 ±4	504.2	415	600
24 <sup>#</sup>	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.

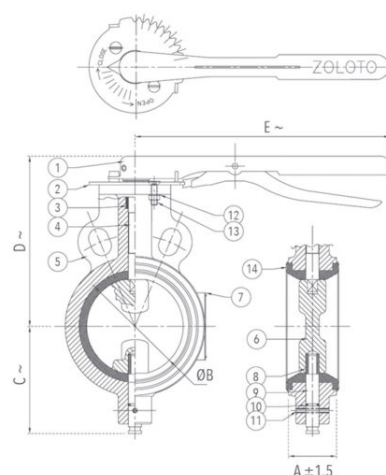
\*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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.

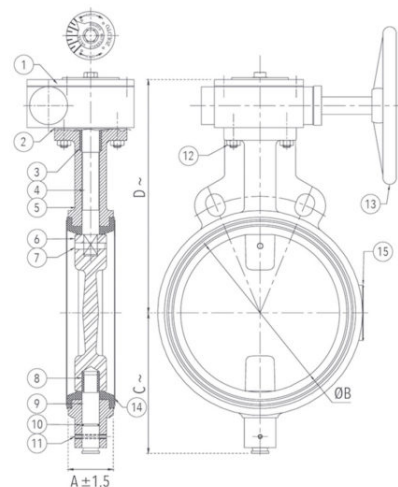
PN 1.6 -  
Test Pressure (Hydrostatic) :  
Shell : 2.4 MPa  
Seat : 1.76 MPa  
Maximum Working Pressure : 1.6 MPa  
Maximum Working Temperature : 90°C

### 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

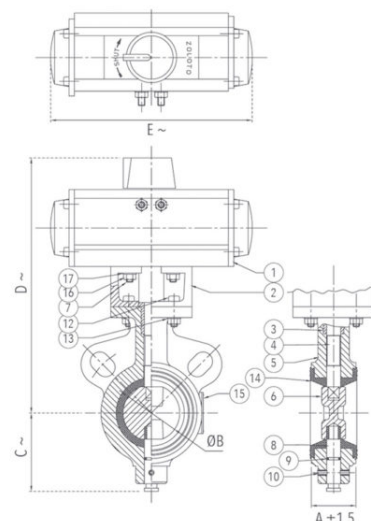
Water

### 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	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.

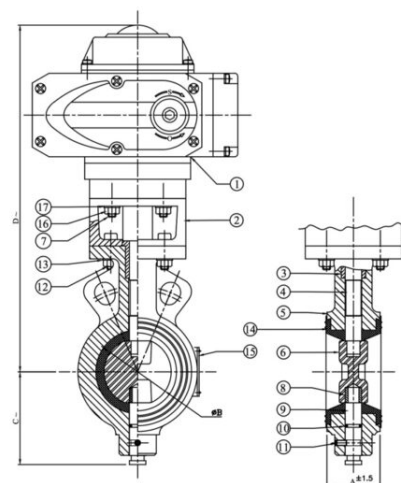
PN 1.0 –  
Test Pressure (Hydrostatic) :  
Shell : 1.5 MPa  
Seat : 1.1 MPa  
Maximum Working Pressure : 1.0 MPa  
Maximum Working Temperature : 90°C

### 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

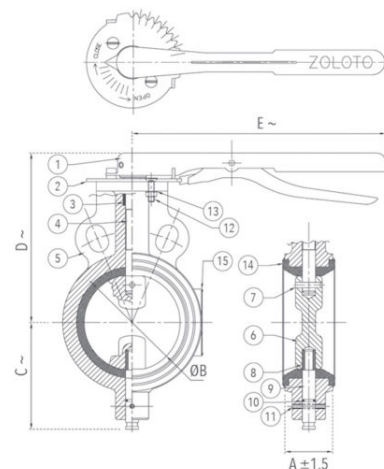
Maximum Working Temperature : 90°C

### 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

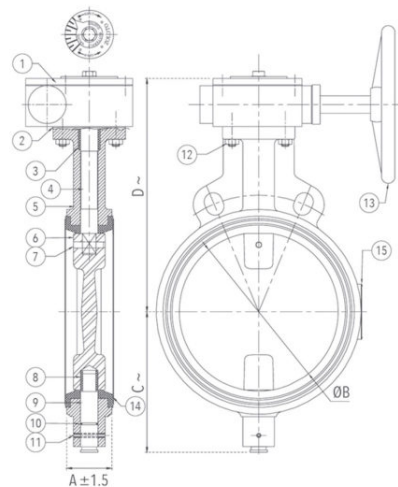
Maximum Working Temperature : 90°C

### 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.

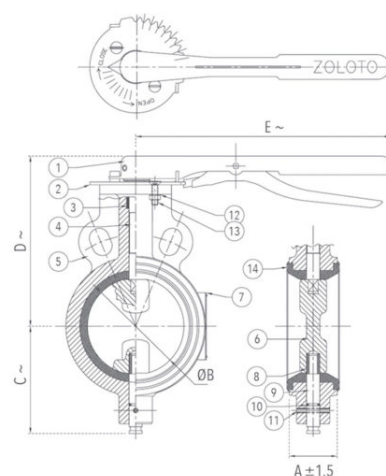
\*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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.

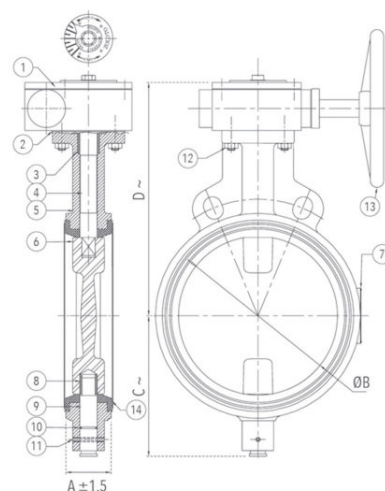
\*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

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



## 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 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.

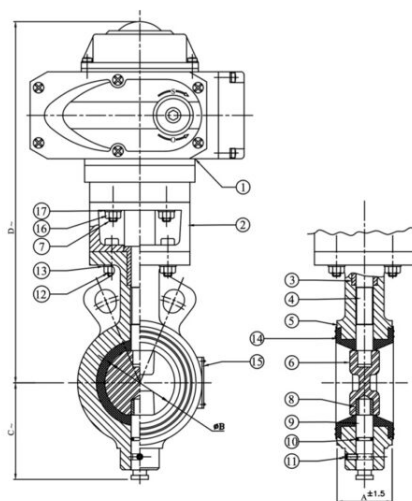
\*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.6 –  
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	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	---	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 2
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 3
10	250	68	252.2	220	516	ZSY 4
12	300	78	301.3	250	540	ZSY 4

~ ±10

## 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

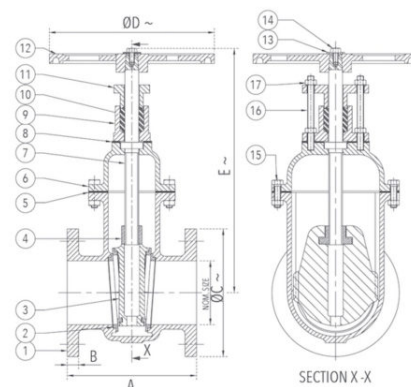
### Suitable For

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 <sup>*1</sup>	350 <sup>*1</sup>	381 ±3	29 ±3	505 (+6.5/-3.0)	500	1020
16 <sup>*1</sup>	400 <sup>*1</sup>	406 ±3	30 ±3	565 (+6.5/-3.0)	640	1110
18 <sup>*1</sup>	450 <sup>*1</sup>	432 ±3	31.5 ±3	615 (+6.5/-3.0)	720	1200

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

\* Flanges as per IS 14846.

<sup>\*1</sup> IS Certification for these sizes is currently under process.

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

## 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

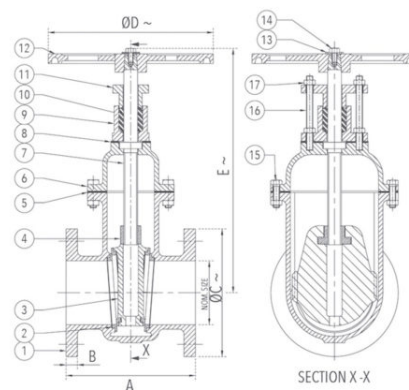
### Suitable For

Water



### Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IS 210 Gr. FG 200	1
2	Seat Ring	Bronze	IS 318 Gr. LTB 2	4
3	Wedge	Cast Iron	IS 210 Gr. FG 200	1
4	Stem Bush	Bronze	IS 318 Gr. LTB 2	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	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 <sup>#</sup>	200 <sup>#</sup>	292 ±3	24.5 ±3	340 (+5.5/-2.5)	450	725
10 <sup>#</sup>	250 <sup>#</sup>	330 ±3	26 ±3	395 (+5.5/-2.5)	640	835
12 <sup>#</sup>	300 <sup>#</sup>	356 ±3	27.5 ±3	445 (+5.5/-2.5)	640	910

\* Flanges as per IS 14846.

<sup>#</sup> For size 200, 250 and 300 part number 18 is not applicable.

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

## 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

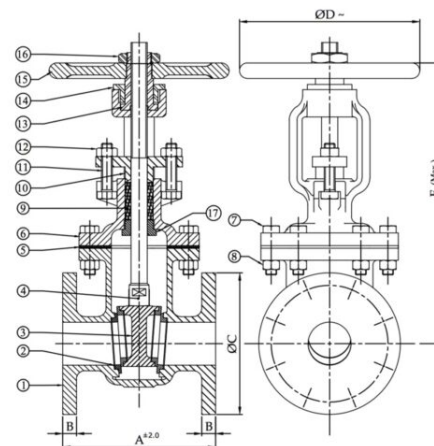
### Suitable For

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 Req'd.
8	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Req'd.
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** : Valve is also available with Brass Spindle at a nominal extra cost.

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



## 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.



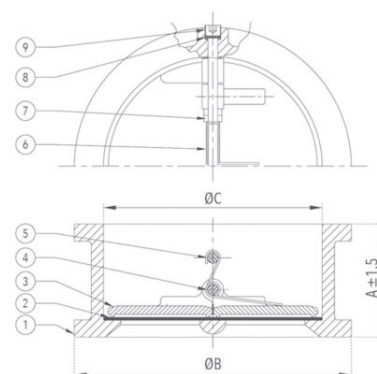
Test Pressure (Hydrostatic) :  
Shell : 24.50 kg/cm<sup>2</sup>g (350 psig)  
Seat : 16 kg/cm<sup>2</sup>g (230 psig)  
Maximum Working Temperature : 80°C

### 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.

## 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

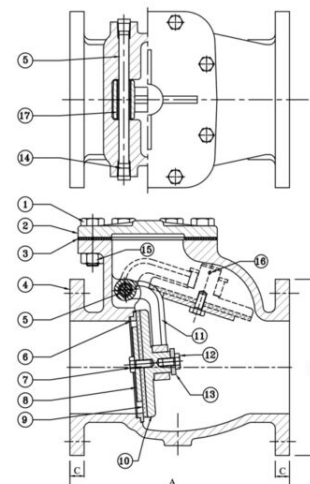
Maximum Working Temperature : 80°C

### 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.

## 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

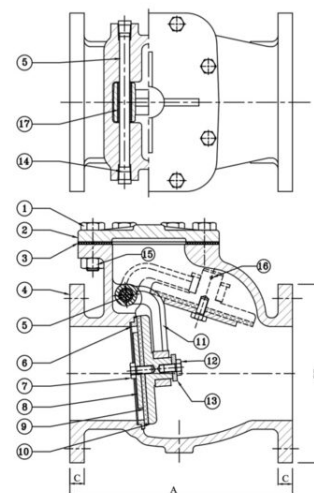
Maximum Working Temperature : 80°C

### 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.

## 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/cm<sup>2</sup>g (220 psig)

Maximum Working Pressure : 10 kg/cm<sup>2</sup>g (150 psig)

Maximum Working Temperature : 220°C

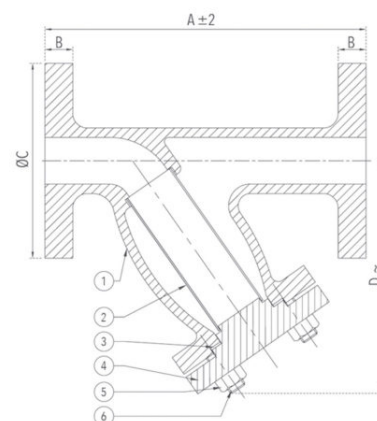
### Suitable For

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

## 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/cm<sup>2</sup>g (340 psig)

Maximum Working Pressure : 16 kg/cm<sup>2</sup>g (225 psig)

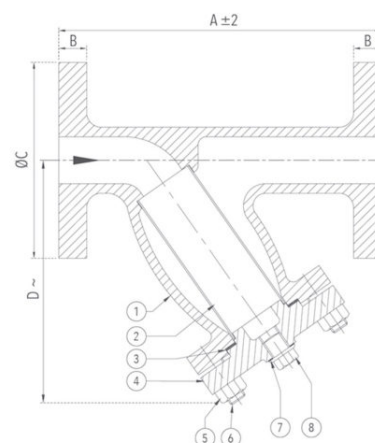
### Suitable For

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

## 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/cm<sup>2</sup>g (340 psig)

Maximum Operating Pressure (Hydrostatic) : 16 Bar at an ambient temperature upto 45°C

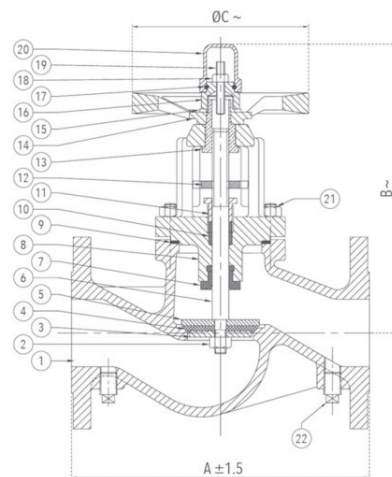
Maximum Working Temperature : 110°C

### 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



## 1090 Cast Iron Bucket Type Steam Trap (Screwed) I.B.R.

### 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/cm<sup>2</sup>g (300 psig)

Maximum Working Pressure : 10.55 kg/cm<sup>2</sup>g (150 psig)

Maximum Working Temperature : 220°C

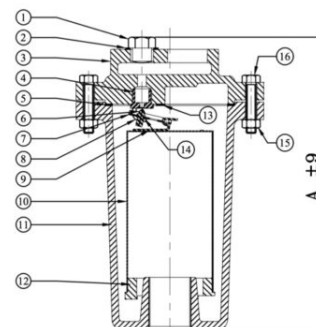
### Suitable For

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"



## 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

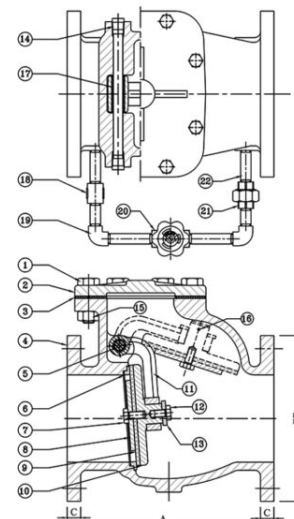
### Suitable For

Water



### Materials

P.No.	Name of Part	Material of Material	Specification	Qty.
1	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	As Req'd.
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 Req'd.
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 Req'd.



### 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"

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

## 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

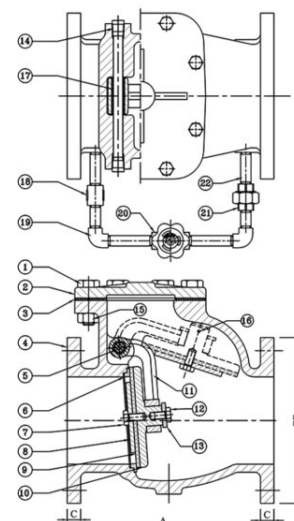
### Suitable For

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"

\* Flanges as per IS 5312 Part 1

## 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

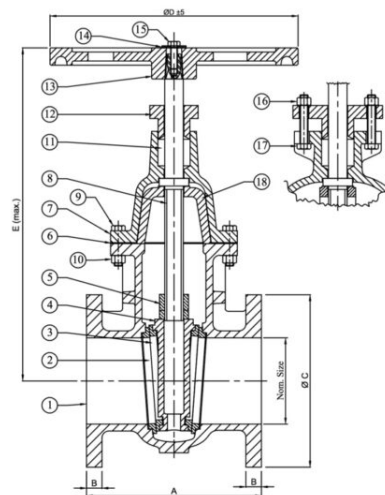
### Suitable For

Water

Photo Not Available

### 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	As Req'd.
10	Nuts	Carbon Steel	IS 1363 Part 3 Class 4.0	As Req'd.
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	1
18	Thrust Plate*	Ductile Iron	IS 1865 Gr. SG 500/7	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
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.