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1009 Bronze Vertical Check Valve (Screwed)

Salient Features

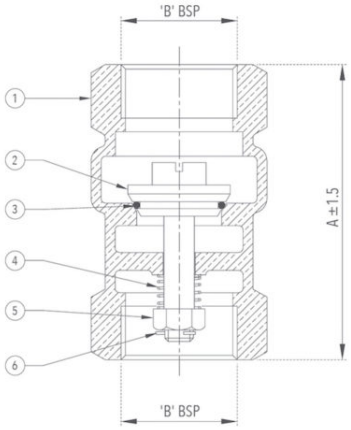
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design, Integral Seat.
- Meant for Vertical Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Spring Loaded and 'O' Ring Type.
- Also available with metal to metal seating.

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
4	Spring	Stainless Steel	Type 304	1
5	Disc Nut	Brass	– – –	1
6	Split Pin	Brass	– – –	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B
1/2	15	55	1/2″
3/4	20	66	3/4″
1	25	76	1″
1 1/4	32	80	1 1/4″
1 1/2	40	85	1 1/2″
2	50	93	2″
2 1/2	65	114	2 1/2″
3	80	118	3″
4	100	141	4″

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1009A Forged Brass Multi Utility Check Valve (Screwed)

Salient Features

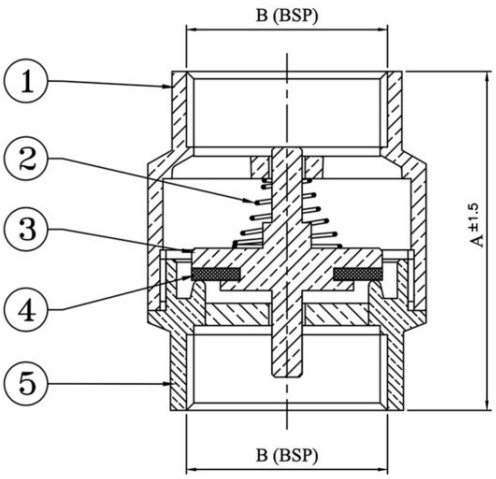
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet.
- Suitable for both Horizontal and Vertical Lines.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Disc is guided in Body as well as in Bonnet.
- Chrome Finish.

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Forged Brass	IS 6912 Gr. FLB	1
2	Spring	Stainless Steel	Type 304	1
3	Disc	Forged Brass	IS 6912 Gr. FLB	1
4	Disc Facing	Nitrile Rubber	IS 638 Type B	1
5	Bonnet	Forged Brass	IS 6912 Gr. FLB	1



Sizes / Dimensions

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

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1010 Bronze Horizontal Check Valve (Screwed)

Salient Features

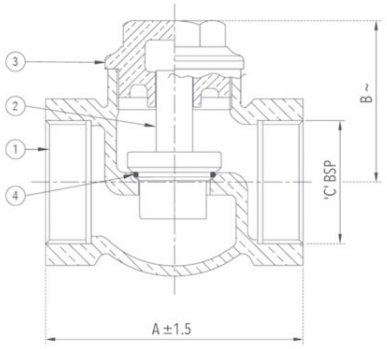
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines only.
- Disc is guided in Body as well as in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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/4	8	33	24	1/4″
3/8	10	37	28	3/8″
1/2	15	45	32	1/2″
3/4	20	53	37	3/4″
1	25	57	41	1″
1 1/4	32	71	46	1 1/4″
1 1/2	40	79	52	1 1/2″
2	50	86	66	2″
2 1/2*	65*	107	80	2 1/2″
3*	80*	123	94	3″
4*	100*	159	104	4″

~ ±10

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

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1010A Bronze Angle Type Lift Check Valve (Screwed)

Salient Features

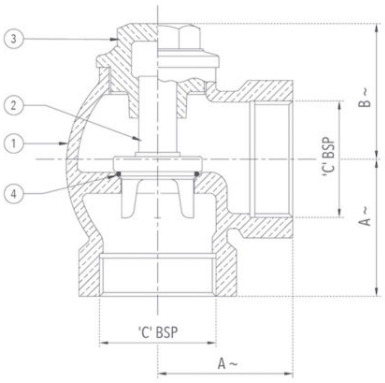
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Angle Pattern, Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Forged Brass	IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

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

~ ±10

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1011 Bronze Horizontal Check Valve No.5 (Screwed)

Salient Features

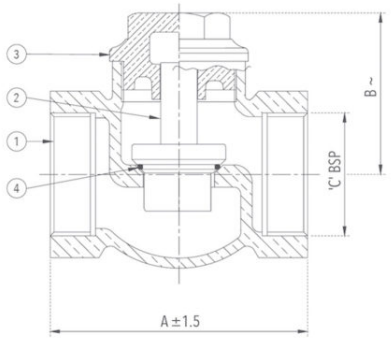
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Body as well as in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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze	IS 318 Gr. LTB 2	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~	C
1/4	8	34	28	1/4″
3/8	10	41	35	3/8″
1/2	15	52	42	1/2″
3/4	20	65	48	3/4″
1	25	82	55	1″
1 1/4	32	88	61	1 1/4″
1 1/2	40	98	66	1 1/2″
2	50	120	75	2″
2 1/2	65	133	84	2 1/2″
3	80	160	96	3″

~ ±10

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1012 Bronze Horizontal Check Valve No.8 (Flanged)

Salient Features

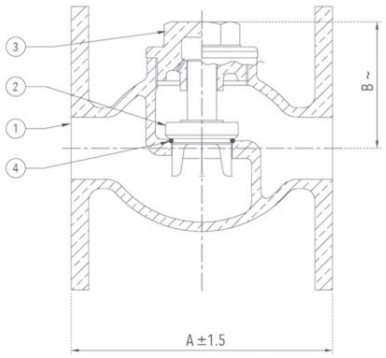
- Flanged Ends to BS 10 Table 'D'.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Body as well as in Bonnet.
- Medium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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze	IS 318 Gr. LTB 2	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

Size (Inches)	Size (mm)	A ±1.5	B ~
1/2	15	53	32
3/4	20	67	37
1	25	80	45
1 1/4	32	85	51
1 1/2	40	91	60
2	50	106	68

~ ±10

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1013 Bronze Horizontal Check Valve No.9 (Screwed)

Salient Features

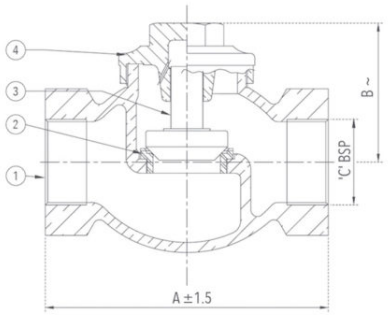
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines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

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

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

Materials

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



Sizes / Dimensions

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

~ ±10

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1014 Bronze Horizontal Check Valve No.9 (Flanged)

Salient Features

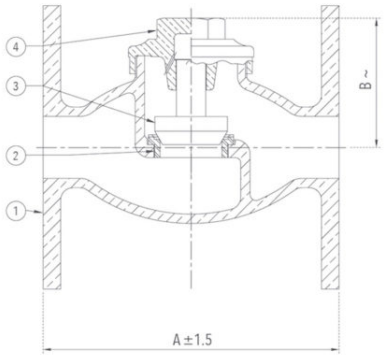
- Flanged Ends to BS 10 Table 'F'.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc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

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

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

Materials

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



Sizes / Dimensions

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

~ ±10

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1037 Bronze Vertical Check Valve (Screwed)

IS 778
CM/L-0624644

Salient Features

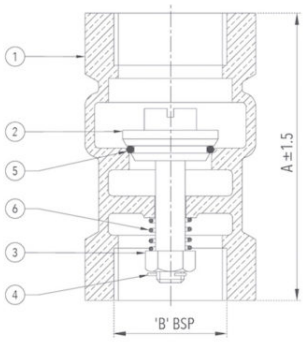
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design.
- Meant for Vertical Lines Only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Nut	Brass	IS 319 Gr. 2 (Half Hard)	1
4	Split Pin	Brass	– – –	1
5	'O' Ring	Nitrile Rubber	IS 5192 – 1	1
6	Spring	Stainless Steel	Type 304	1



Sizes / Dimensions

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

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1038 Bronze Horizontal Check Valve (Screwed)

IS 778 CM/L-0624644

Salient Features

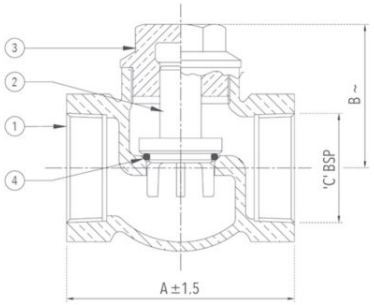
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, meant for Horizontal Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Design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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

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

~ ±10

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

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1039 Bronze Horizontal Check Valve (Flanged)

IS 778
CM/L-0624644

Salient Features

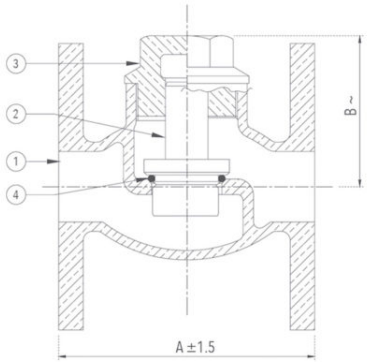
- Flanged Ends to IS 778.
- Screwed in Bonnet, meant for Horizontal Lines Only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Design Standard IS 778, Class-1.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

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

Suitable For
Water, Oil

Materials

P.No.	Name of Part	Material of Construction	Specification	Quantity
1	Body	Bronze	IS 318 Gr. LTB 2	1
2	Disc	Bronze	IS 318 Gr. LTB 2	1
3	Bonnet	Bronze / Forged Brass	IS 318 Gr. LTB 2 / IS 6912 Gr. FLB	1
4	'O' Ring	Nitrile Rubber	IS 5192 – 1	1



Sizes / Dimensions

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

~ ±10

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

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1043 Bronze Horizontal Lift Check Valve (Screwed) I.B.R

Salient Features

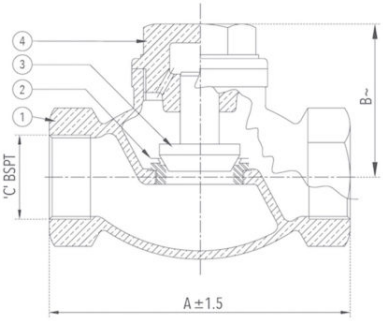
- Screwed Female Ends to BSPT.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

~ ±10

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1044 Bronze Horizontal Lift Check Valve (Flanged) I.B.R

Salient Features

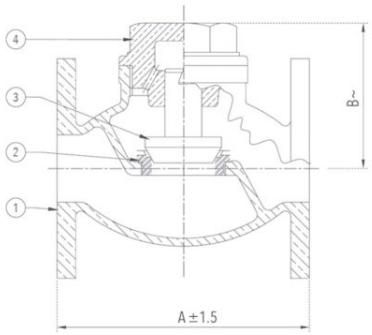
- Flanged Ends to BS 10 Table 'H'.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

~ ±10

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1045 Bronze Vertical Lift Check Valve (Screwed) I.B.R

Salient Features

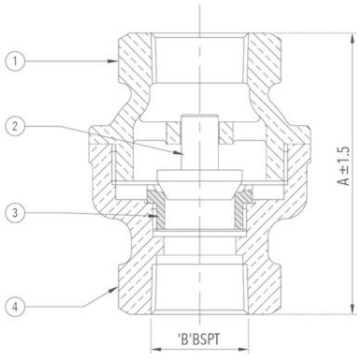
- Screwed Female Ends to BSPT.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

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1046 Bronze Vertical Lift Check Valve (Flanged) I.B.R

Salient Features

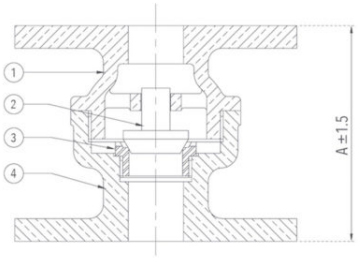
- Flanged Ends to BS 10 Table 'H'.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

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

Salient Features

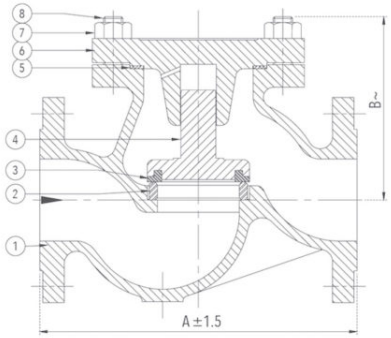
- Flanged Ends to DIN 2533 PN 16RF.
- Straight Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

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

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

Salient Features

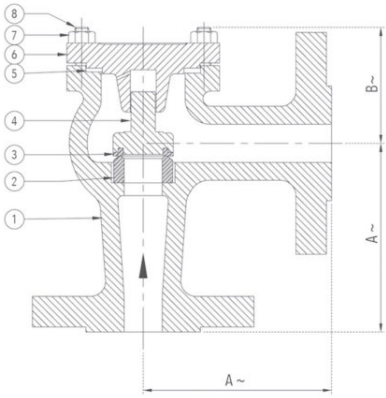
- Flanged Ends to DIN 2533 PN 16RF.
- Angle Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

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

Suitable For
Steam, Water

Materials

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



Sizes / Dimensions

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

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

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1072 Cast Steel Horizontal Lift Check Valve (Flanged) I.B.R

Salient Features

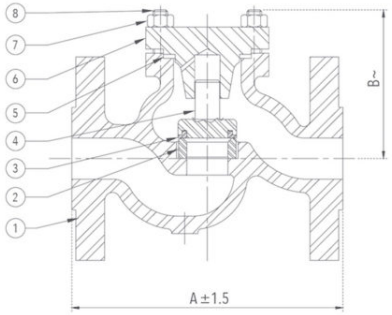
- Flanged Ends to DIN 2545 PN 40.
- Bolted Cover, Straight Pattern.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to well contoured body design.
- Suitable for thermic fluid application also.

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

Suitable For
Steam, Water, Oil

Materials

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



Sizes / Dimensions

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

~ ±10

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1076 Forged Steel Horizontal Lift Check Valve, Class-800 (Standard Bore) I.B.R

Salient Features

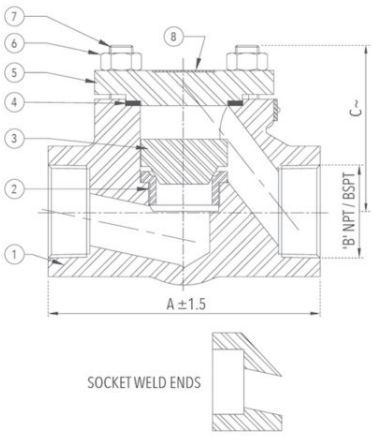
- Design Standard API 602/BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

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

Suitable For
Steam, Water, Oil

Materials

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



Sizes / Dimensions

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

~ ±10

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

Salient Features

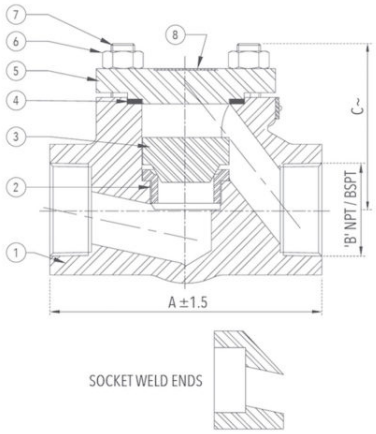
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

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

Suitable For
Steam, Water, Oil

Materials

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



Sizes / Dimensions

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

~ ±10

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

Salient Features

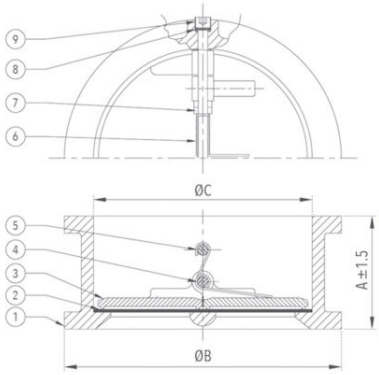
- Design standard API 594.
- Wafer Type Design, to take lesser space than the conventional Check Valve.
- Being light in weight, is more rigid than the standard Swing Type Check Valve, which needs expensive foundation and special supports.
- Being cylindrical body, stresses are uniformly distributed.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

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

Suitable For
Water

Materials

P.No.	Name of Part	Material of Construction	Specification	Qty.
1	Body	Cast Iron	IS 210 Gr. FG 200	1
2	Body Lining	Nitrile Rubber	IS 5192 – 1	1
3	Flap / Disc	Stainless Steel / Bronze	ASTM A 351 Gr. CF8/CF8M / IS 318 Gr. LTB2	2
4	Hinge Pin	Stainless Steel	ASTM A 276 Type 304	1
5	Stop Pin	Stainless Steel	ASTM A 276 Type 304	1
6	Spring	Stainless Steel	Type 304	–
7	Packing Washer	Stainless Steel/PTFE	ASTM A 276 Type 304 / – – –	–
8	Packing Washer	Nitrile Rubber / PTFE	IS : 5192-1 / – – –	–
9	Retainer Plug	Carbon Steel	– – –	2/4



Sizes / Dimensions

Size (Inches)	Size (mm)	A	ØB	ØC
1 1/2	40	50	92	56
2	50	54	101	60
2 1/2	65	60	120	73
3	80	67	133	89
4	100	67	171	114
5	125	83	193	141
6	150	95	218	168
8	200	127	276	219
10	250	140	336	273.5
12	300	181	406	324
14*	350*	184	451	357

*Flap / Disc for Size 350 is of Bronze.

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1083 Cast Iron Non Return Valve PN 1.0 (Flanged)

IS 5312
CM/L-9700117720

Salient Features

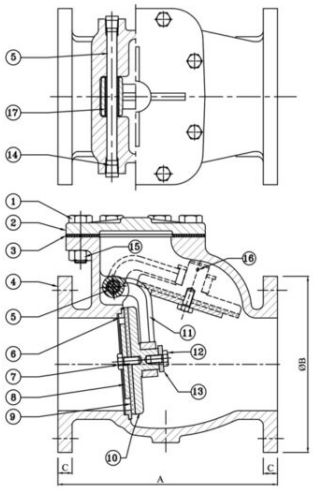
- Design Standard IS 5312 – 1.
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

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

Suitable For
Water

Materials

P.No.	Name of Part	Material of Material	Specification	Qty.
1	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile Rubber	IS 638 Type B	1
10	Disc	Cast Iron	IS 210 Gr. FG 200	1
11	Hinge	Cast Iron	IS 210 Gr. FG 200	1
12	Bolt (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

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

* Flanges as per IS 5312.

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

Salient Features

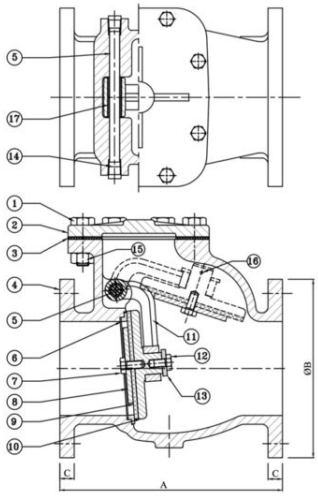
- Design Standard IS 5312 – 1 .
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

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

Suitable For
Water

Materials

P.No.	Name of Part	Material of Material	Specification	Qty.
1	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	As Reqd.
2	Cover	Cast Iron	IS 210 Gr. FG 200	1
3	Gasket	Nitrile Rubber	IS 638 Type B	1
4	Body	Cast Iron	IS 210 Gr. FG 200	1
5	Hinge Pin	Stainless Steel	IS 6603 Gr. X04 Cr19Ni9	1
6	Body Seat Ring	Bronze	IS 318 Gr. LTB 2	1
7	Bolts	Carbon Steel	IS 1363 Part 1 Class 4.6	1
8	Washer	Carbon Steel	– – –	1
9	Disc Facing	Nitrile Rubber	IS 638 Type B	1
10	Disc	Cast Iron	IS 210 Gr. FG 200	1
11	Hinge	Cast Iron	IS 210 Gr. FG 200	1
12	Bolt (Optional)	Carbon Steel	IS 1363 Part 1 Class 4.6	1
13	Washer	Carbon Steel	– – –	1
14	Plug	Stainless Steel	IS 6603 Gr. 12 Cr12	2
15	Nut	Carbon Steel	IS 1363 Part 3 Class 4.0	As Reqd.
16	Split Pin (Optional)	Carbon Steel	– – –	1
17	Hinge Bush	Bronze	IS 318 Gr. LTB 2	1



Sizes / Dimensions

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

* Flanges as per IS 5312.

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