



S & M INDUSTRIAL VALVES LIMITED
(FORMERLY : STEAM & MINING INDUSTRIES)

AN ISO 9001 : 2000 CERTIFIED COMPANY

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A small time vendor of machinery parts, the late Mr. J. K. Mehta foresaw the huge potential of Industrial Valves in early 50s and plunged in to manufacturing of valves with limited resources but unlimited zeal and vigour to fulfill the dream to manufacture the finest quality of Industrial valves. The first batch of his production rolled out in the year 1963. Untiring efforts and designing skill to make the most sophisticated valves, we started executing order from Steel Plants and Refineries bringing customer's satisfaction and letters of appreciation, resulting in to the flow of inquiries and high growth of Steam & Mining Industries.

For us the 'Mantra' to growth is to improve with every day - with every Order - in terms of quality and customer satisfaction. We strive to manufacture not just another valve but SMI/SWASTIK Valve-the SUPERIOR QUALITY VALVE.

A modern workshop, sophisticated design room, excellent mechanical engineering facilities manned by dedicated team of thorough professionals produces superior quality valves for the customers who gets value for money.

Our specialization reflects in designing and manufacturing critical valves. Yet another feather in our cap was added when we successfully developed some of the most critical tailor made import substitute valves for Steel Plants, Thermal Power Plants, Fertilizer Plants and Petroleum Companies.

For SMI - the saga continues accept new challenges, expand our own horizons, set and cross our own quality and customer satisfaction standards. The third generation of entrepreneurship is adding on to the new energies, develops latest state of the art furnaces, tools, machineries, design units, R & D department and above all the new fresh ideas.

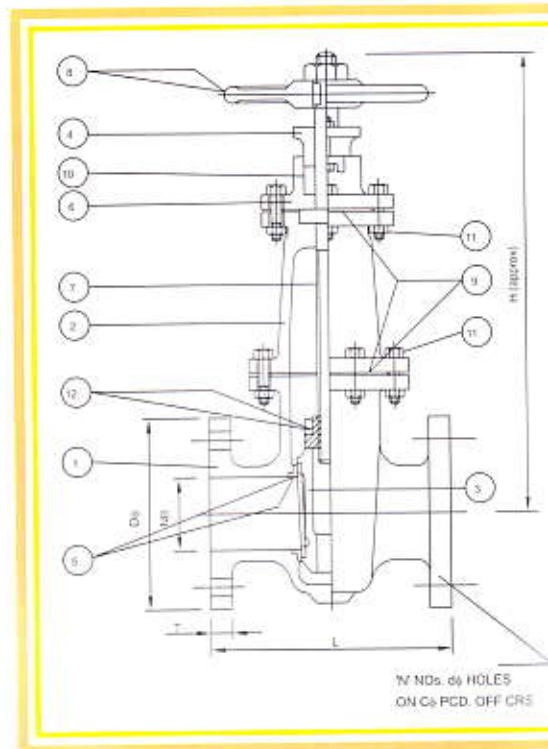
Always striving to serve you better.

Cast Iron Sluice Valve (Non-Rising Spindle)



IS : 14846

600	508	1500	780	725	20	31	36
500	457	1300	670	620	20	28	33
450	432	1200	615	565	20	28	31.5
400	406	1110	565	513	16	28	30
350	381	1020	505	460	16	23	29
300	356	910	445	400	12	23	27.5
250	330	835	395	350	12	23	26
200	292	725	340	295	8	23	24.5
150	267	595	285	240	8	23	23
100	229	470	220	180	8	19	22
80	203	425	200	160	4	19	21
50	178	365	165	125	4	19	16
NB	L ⁺³	H ⁻	D ϕ ⁺²	C ϕ ⁺¹	N	d ϕ ^{+0.5}	T ⁺²



PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON IS:210 FG200
2	BONNET	CAST IRON IS:210 FG200
3	WEDGE	CAST IRON IS:210 Fg200 + AISI 410 FACING
4	GLAND	CAST IRON IS:210 FG200
5	BODY SEAT RING	S.S. AISI 410
6	STUFFING BOX	CAST IRON IS:210 FG200
7	SPINDLE (NON RISING)	S.S. AISI 410
8	HAND WHEEL	CAST IRON IS:210 FG200
9	GASKET	COMPRESSED ASBESTOS FIBRE IS:2712
10	GLAND PACKING	GRAPHITED ASBESTOS ROPE
11	BOLTS & NUTS	CARBON STEEL IS:1367 CL 4.6/4
12	SPINDLE NUT	GUN METAL IS:318 LTB-2

- VALVES GENERALLY MANUFACTURED AS PER IS:14846-2000.
- FLANGE END DRILLING AS PER IS:1538-1993 TABLE-4&5
- HYDRAULIC TEST PRESSURE – BODY – 15 Kg/Cm² SEAT-10 Kg/Cm²
- Valves Can be supplied with Pneumatic/Electric Actuator on request.
- Higher sizes valve upto 1800 NB can be supplied on request.



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STEAM & MINING INDUSTRIES

1, A. J. C. BOSE ROAD, KOLKATA-700

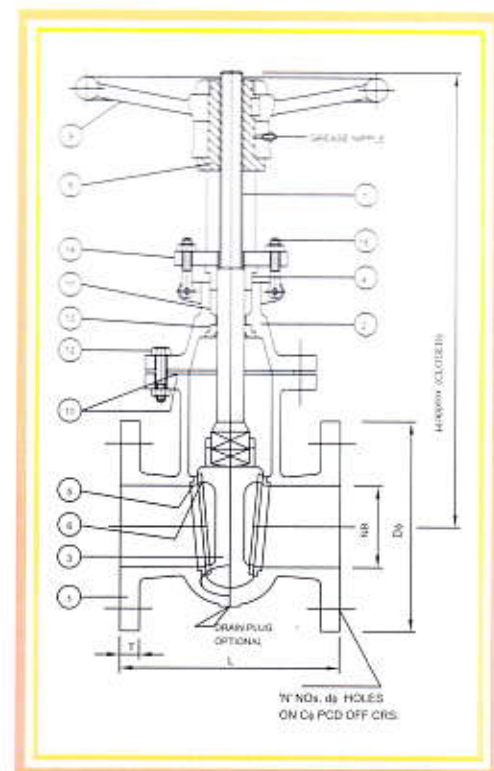
Cast Iron Gate Valve (Rising Spindle)



IS : 14846

PART LIST

PART No.	DESCRIPTION	MATERIALS
1	BODY	C.I. IS 210 FG 200
2	BONNET	C.I. IS 210 FG 200
3	WEDGE	C.I. IS 210 FG 200
4	GLAND	C.I. IS 210 FG 200
5	BODY SEAT RING	GUN METAL / AISI 410
6	WEDGE SEAT RINGS	GUN METAL / AISI 410
7	SPINDLE (RISING)	S.S. AISI 410 / BRASS
8	YOKE SLEEVE	CARBON STEEL
9	HAND WHEEL (NON RISING)	C.I. IS:210 FG 200
10	GASKET	COMPRESSED FIBRE BOARD, IS:2712 Gr.C
11	GLAND PACKING	GRAPHITED ASBESTOS ROPE
12	BOLTS & NUTS	CARBON STEEL IS:1363 CL 4.6 / 4
13	BACK SEAT BUSH	S.S. AISI 410 / BRASS
14	GLAND FLANGE	C.I. IS:210 FG 200
15	EYE BOLTS & NUTS	CARBON STEEL IS:1363 CL 4.6 / 4



600	508	1500	780	725	20	31	36
500	457	1340	670	620	20	28	33
450	432	1210	615	565	20	28	31.5
400	406	1110	565	515	16	28	30
350	381	1030	505	460	16	23	29
300	356	910	445	400	12	23	27.5
250	330	835	395	350	12	23	26
200	292	725	340	295	8	23	24.5
150	267	595	285	240	8	23	23
125	254	485	250	210	8	19	22.5
100	229	470	220	180	8	19	22
80	203	425	200	160	4	19	21
65	190	380	185	145	4	18	16
50	178	365	165	125	4	18	16
NB	PN-1.0 & 1.6	PN-1.0/PN-1.6	$D^{\phi-1}$	$C^{\phi-1}$	N	$d^{\phi-1}$	$T^{\pm 1}$
	$L^{\pm 1}$	H~					

- VALVE MANUFACTURED AS PER IS:14846-2000.
- TESTING WILL BE AS PER IS:14846-2000.
- FLANGE END DRILLING STANDARD TO IS:1538-1993 (T-4&5)
- Valves Can be supplied with Pneumatic/Electric Actuator on request.
- Higher sizes valve upto 1800 NB can be supplied on request.

RATING	WORKING PRESSURE	HYDRAULIC TEST	PRESSURE
		BODY	SEAT
PN-10	10Kg/Cm ²	16Kg/Cm ²	10Kg/Cm ²
PN-1.6	16Kg/Cm ²	24Kg/Cm ²	16Kg/Cm ²



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STEAM & MINING INDUSTRIES

1, A. J. C. BOSE ROAD, KOLKATA-700 020

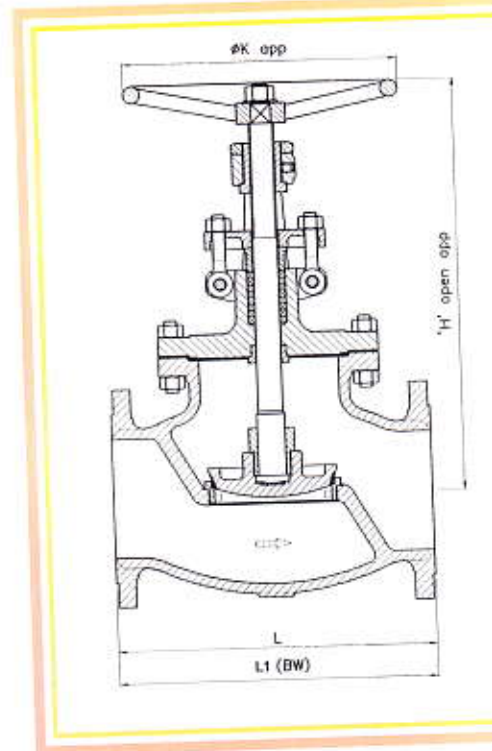
Globe Valve Class 150/300/600



BS 1873

MATERIAL SPECIFICATION

PARTS	MATERIAL		
	WCB	WC6	CF8/ CF8M
BODY	WCB	WC6	CF8/ CF8M
BONNET	WCB	WC6	CF8/ CF8M
PLUG	CA15/ 13% Cr. FACING ON WCB	WC6 + 13% Cr. FACING	CF8/ CF8M
SEAT RING	CA15/A 515-70/ 13% Cr. FACING	S.S 304	CF8/ CF8M
BACK SEAT	410		INTEGRAL
SPINDLE	410		304/ 316
GLAND BUSH	410		304/ 316
GLAND FLANGE	CARBON STEEL/WCB		S.S 304
YOKE NUT	ASTM A 439 Gr.D2/ AL-BRONZE		
PLUG NUT	410		304
HAND WHEEL	CARBON STEEL		
HAND WHEEL NUT	Gr.2H		Gr.8
STUD & NUT	B7/ 2H	B16/ 7	B7/2H
EYE BOLT & NUT	B7/ 2H		B8/ 8
CASING STUD & NUT	B7/ 2H		B7/2H
CROSS BOLT & NUT	B7/ 2H		B8/ 8
GASKET	SPW 2.2 304 / 316 WITH CAF		
GLAND PACKING	GRAPH. ASB. INHIB. & INCONEL WIRE REIN./GRAPHOIL		



CLASS 150 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600
L	203	216	241	292	356	406	495	622	698	787	914	978	978	1067	1295
L1	203	216	241	292	356	406	495	622	698	787	914	978	978	1067	1295
'H' app	320	330	380	480	525	575	650	780	935	1185	1250	1350	1410	1525	1650
øK app	200	200	250	300	300	350	450	500	600	700	750	800	800	850	900
Wt. kg app(F/E)	20	30	38	57	75	98	155	225	360	580	800	910	1100	1300	1450

CLASS 300 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L	267	292	318	356	400	444	559	622	711	838	864	978	1016
L1	267	292	318	356	400	444	559	622	711	838	864	978	1016
'H' app	360	410	450	530	590	650	735	825	950	1145	1370	1422	1475
øK app	200	250	300	350	400	450	600	700	750	800	800	850	900
Wt. kg app(F/E)	30	45	60	95	125	150	235	390	590	965	1115	1400	1800

CLASS 600 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300
L	292	330	356	432	508	559	660	787	838
L1	292	330	356	432	508	559	660	787	838
'H' app	400	425	490	635	685	740	975	1080	1230
øK app	250	300	350	400	450	500	600	650	700
Wt. kg app(F/E)	35	40	68	128	185	250	435	825	910

Valves can be supplied with pneumatic / Electric Actuator.



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STEAM & MINING INDUSTRY

1, A. J. C. BOSE ROAD, KOLKATA-70

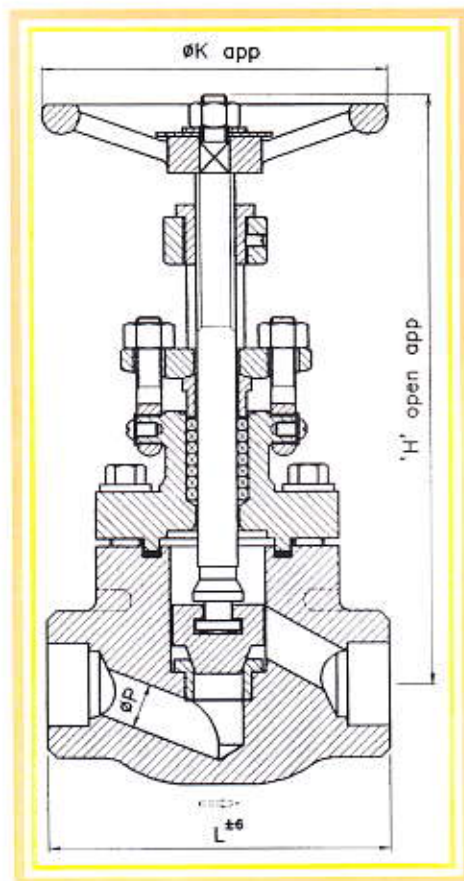
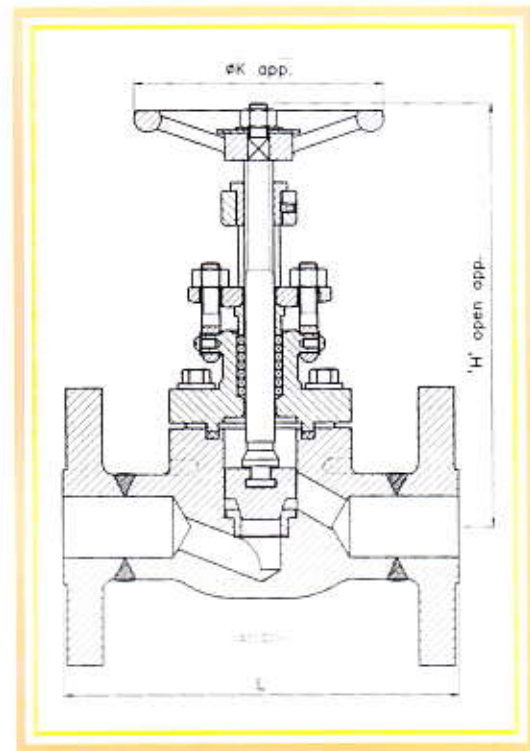
Forged Globe Valve Class 150/300/600/800



BS 5352

MATERIAL SPECIFICATION

PARTS	MATERIAL		
	A 105	F 304	F 316
BODY	A 105	F 304	F 316
BONNET	A 105	F 304	F 316
PLUG	13% Cr.	304	316
SEAT	13% Cr.	304	316
SPINDLE	410	304	316
GLAND BUSH	410	304	316
GLAND FLANGE	A 105	F 304	
YOKE SLEEVE	ASTM A 439 Gr.D2/ AL-BRONZE		
HAND WHEEL	CAST STEEL		
HAND WHEEL NUT	Gr.2H		
COLLAR BOLT / STUD & NUT	B7/ 2H	B8/ 8 OR B7/2H	
EYE BOLT & NUT	B7/ 2H	B8/ 8	
GASKET	SPW S.S 304/316 WITH CAF/ GRAFOIL		
GLAND PACKING	GRAPHITE ASBESTOS INHIB. & INCONEL WIRE REIN.		
SCREW/RIVET & WASHER	STEEL		
WASHER	STEEL		
GRUB SCREW	STEEL		



CLASS 150 (DIMENSION TABLE)

VALVE SIZE mm	15	20	25	40
L	108	118	127	165
'H' app	170	180	210	280
øK app	95	95	105	150
Wt. kg app(F/E)	3.0	4.5	6.0	10.0

CLASS 300 (DIMENSION TABLE)

VALVE SIZE mm	15	20	25	40
L	152.5	178	203	228.5
'H' app	170	180	210	280
øK app	95	95	105	150
Wt. kg app(F/E)	4.0	6.0	8.0	17.0

CLASS 600 (DIMENSION TABLE)

VALVE SIZE mm	15	20	25	40
L	165	190.5	216	241
'H' app	180	210	280	290
øK app	95	105	150	150
Wt. kg app(F/E)	4.5	6.5	8.5	17.5

CLASS 800 (DIMENSION TABLE)

VALVE SIZE mm	08	10	15	20	25	40	50
L	85	85	85	90	103	128*	142
'H' app	170	170	170	180	210	280	290
øK app	95	95	95	95	105	150	150
øP	6.0	6.0	9.0	12.0	17.5	29.5	35.0
Wt. kg app.	2.0	2.0	2.0	2.5	4.0	8.5	9.0



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STEAM & MINING INDUSTRIES

1, A. J. C. BOSE ROAD, KOLKATA-700 020

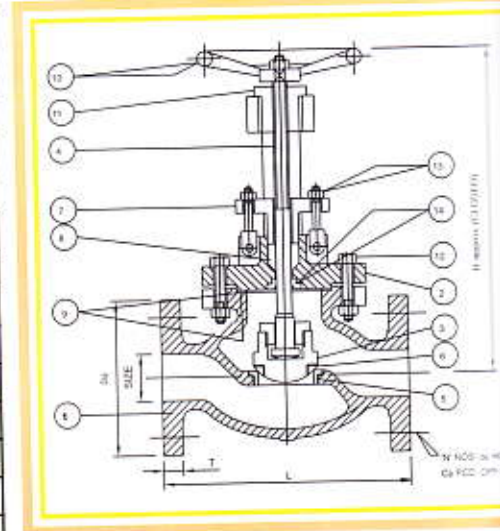
Cast Iron Globe Valve



BS : 5152

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON IS:210 FG200
2	BONNET	-do-
3	DISC	-do-
4	STEM	S.S. AISI 410 / BRASS
5	SEAT RING	GUN METAL / AISI 410
6	DISC FACING	-do-
7	GLAND	CAST IRON IS:210 FG200
8	GLAND PACKING	GRAPHITE ASBESTOS ROPE
9	GASKET	C A F IS : 2712 Gr.C
10	HAND WHEEL	C.I. IS:210 FG 200
11	YOKE BUSH	CARBON STEEL
12	BOLTS & NUTS	CARBON STEEL (IS:1367, CL-4.6/4)
13	EYE BOLTS & NUTS	CARBON STEEL (IS:1367, CL-4.6/4)
14	BACK SEAT BUSH	S.S. AISI 410 / BRASS



450	965 ^{±5}	1200	635	40	578	16	32
400	914 ^{±5}	1050	597	37	540	16	29
350	787 ^{±4}	925	533	35	476	12	29
300	698 ^{±4}	800	483	32	432	12	25
250	622 ^{±4}	700	406	30	362	12	25
200	495 ^{±3}	575	343	29	298	8	22
150	356 ^{±2}	465	279	25	241	8	22
125	330 ^{±2}	420	254	24	216	8	22
100	292 ^{±2}	360	229	24	191	8	19
80	241 ^{±2}	315	191	19	152	4	19
65	216 ^{±2}	305	178	17	140	4	19
50	203 ^{±2}	250	152	16	121	4	19
40	165 ^{±1}	240	127	14	98	4	16
32	140 ^{±1}	210	117	13	89	4	16
25	127 ^{±1}	200	108	11	79	4	16
20	117 ^{±1}	200	98	11	70	4	16
15	108 ^{±1}	200	89	11	60	4	16
SIZE(ND)	PN-10 & PN-16						
	L	H -	D ϕ ^{±1.5} _{±0}	T ^{±1}	C ϕ ^{±1}	N	d ϕ ^{±1}

- VALVE MANUFACTURED AS PER BS : 5152-1974
- TESTING WILL BE AS PER BS : 5152.
- FLANGE AND DRILLING STANDARD TO ANSI CLASS 125.
- Valves Can be supplied with Pneumatic/Electric Actuator on request

RATING	WORKING PRESSURE	HYDRAULIC TEST		PRESSURE
		BODY	SEAT	
PN-10	10Kg/Cm ²	15Kg/Cm ²	10Kg/Cm ²	
PN-1.6	16Kg/Cm ²	24Kg/Cm ²	16Kg/Cm ²	



AN ISO 9001 : 2000 CERTIFIED COMPANY

STEAM & MINING INDUSTRIES

1, A. J. C. BOSE ROAD, KOLKATA-700

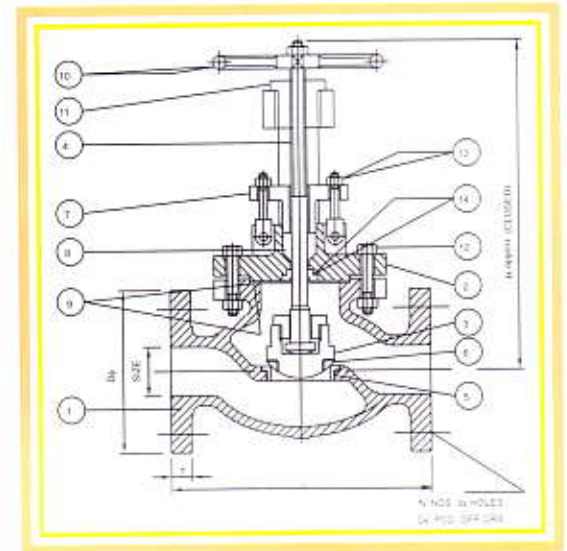
Cast Iron Globe Valve PN - 1.6



IS : 9338

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON IS:210 FG200
2	BONNET	-do-
3	DISC	-do-
4	STEM	S.S. AISI 410 / BRASS
5	SEAT RING	GUN METAL / AISI 410
6	DISC FACING	-do-
7	GLAND	CAST IRON IS:210 FG200
8	GLAND PACKING	GRAPHITE ASBESTOS ROPE
9	GASKET	C A F IS : 2712 Gr.C
10	HAND WHEEL	C.I. IS:210 FG 200
11	YOKE BUSH	CARBON STEEL
12	BOLTS & NUTS	CARBON STEEL (IS:1367, CL-4.6/4)
13	EYE BOLTS & NUTS	CARBON STEEL (IS:1367, CL-4.6/4)
14	BACK SEAT BUSH	S.S. AISI 410 / BRASS



300	850 ⁺⁵	800	445	27.5	400	12	23
250	730 ⁺⁴	700	395	26	350	12	23
200	600 ⁺³	575	340	24.5	295	8	23
150	480 ⁺³	465	285	23	240	8	23
125	400 ⁺²	420	250	22.5	210	8	19
100	350 ⁺²	360	220	22	180	8	19
80	310 ⁺²	315	200	21	160	4	19
65	290 ⁺²	305	185	20	145	4	18
50	230 ⁺²	250	165	20	125	4	18
40	200 ⁺¹	240	150	18	110	4	18
32	180 ⁺¹	210	140	18	100	4	18
25	160 ⁺¹	200	115	16	85	4	14
20	150 ⁺¹	200	105	16	75	4	14
15	135 ⁺¹	200	95	14	65	4	14
SIZE(ND)	L	H APPROX	D ϕ ^{+1.5} _{-1.0}	T ⁺¹	C ϕ ⁺¹	N	d ϕ

- VALVE MANUFACTURED AS PER IS : 9338.
- TESTING WILL BE AS PER IS : 9338.
- FLANGE AND DRILLING AS PER IS:9338 (T -2) FOR BELOW 80NB, FOR 80NB AND ABOVE AS PER IS:1538.
- WORKING PRESSURE : 16 Kg/Cm²
- Valves Can be supplied with Pneumatic/Electric Actuator on request



AN ISO 9001 : 2000 CERTIFIED COMPANY

STEAM & MINING INDUSTRIES

1, A. J. C. BOSE ROAD, KOLKATA-700 020

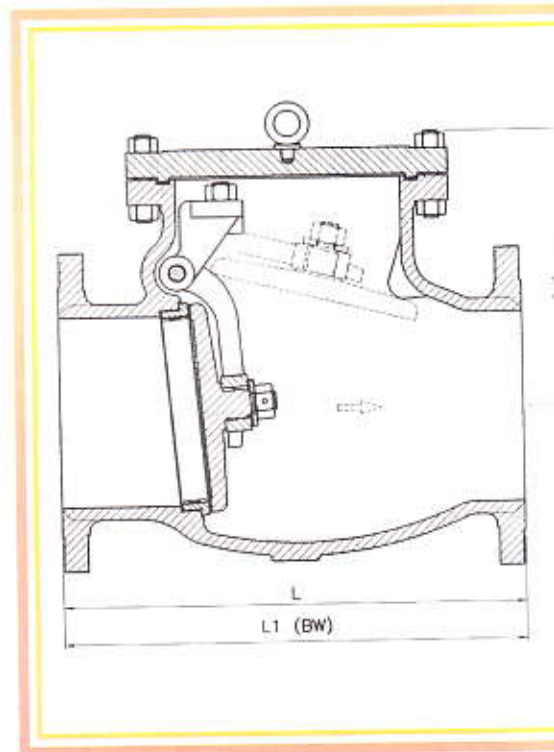
Swing Check Valve Class 150/300/600



BS 1868 / API 6D

MATERIAL SPECIFICATION

PARTS	MATERIAL		
	WCB	WC6	CF8/ CF8M
BODY	WCB	WC6	CF8/ CF8M
DISC	CA15/ 13% Cr. FACING ON WCB	WC6 + 13% Cr. FACING	CF8/ CF8M
SEAT RING	CA15/A 515 Gr. 70 + 13% Cr. FACING	SS 304	304/ 316
TOP COVER	WCB/Gr. 70	WC6	CF8/ CF8M
STUD & NUT	B7/ 2H	B16/7	B7/2H
BRACKET STUD & NUT	B8/ 8		
GASKET	SPW S.S 304/316 WITH CAF		
WASHER	410	304	316
DISC NUT	Gr. 8		
HINGE PIN	410	304	316
SPLIT PIN	410	304	316
NAME PLATE	ALUMINIUM/SS		
HINGE	WCB/Gr. 70	WC6/CF8	CF8/ CF8M
HINGE BRACKET	WCB/Gr. 70	WC6/CF8	CF8/ CF8M
LIFTING EYE BOLT	ASTM A 105		



CLASS 150 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300	350	400	450	500	550	600	650	700
L	203	216	241	292	330	356	495	622	698	787	864	978	978	1067	1295	1295	1448
L1	203	216	241	292	330	356	495	622	698	787	864	978	978	1067	1295	1295	1448
'H' app	145	165	170	205	225	255	300	340	485	465	595	545	600	695	750	775	800
Wt. kg app	18	25	32	52	56	92	136	220	345	485	570	770	1055	1255	1325	1500	1650

CLASS 300 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L	267	292	318	356	400	444	533	622	711	838	864	978	1016
L1	267	292	318	356	400	444	533	622	711	838	864	978	1016
'H' app	155	215	185	220	245	275	300	375	430	520	560	686	610
Wt. kg app	25	40	60	80	105	130	215	345	470	685	998	1050	1220

CLASS 600 (DIMENSION TABLE)

VALVE SIZE mm	50	65	80	100	125	150	200	250	300	350	400
L	292	330	356	432	508	559	660	787	838	889	991
L1	292	330	356	432	508	559	660	787	838	889	991
'H' app	160	260	230	280	290	330	360	475	555	580	665
Wt. kg app	29	55	65	115	145	250	405	620	815	970	1215



AN ISO 9001 : 2000 CERTIFIED CO

STEAM & MINING INDUS

1, A. J. C. BOSE ROAD, KOLKATA-70

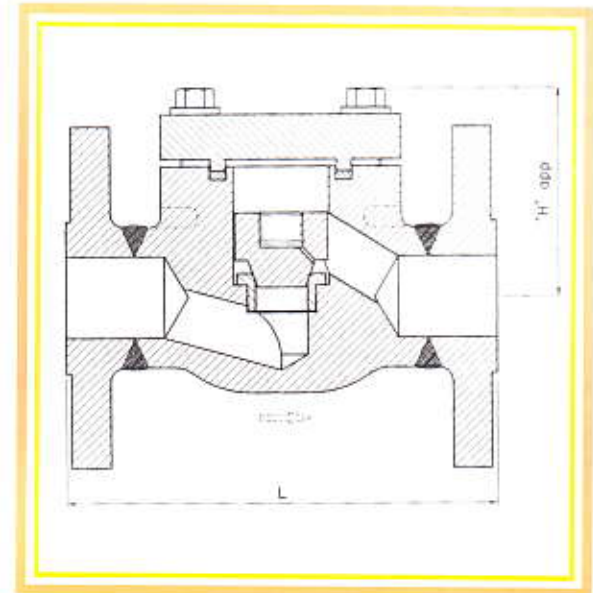
Forged Lift Check Valve Class 150/300/600/800



BS 5352

MATERIAL SPECIFICATION

PARTS	MATERIAL		
	BODY	A 105	F 304
PLUG	13% Cr.	304	F 316
SEAT	13% Cr.	304	316
COVER	A 105	F 304	316
COLLAR BOLT/ STUD & NUT	B7/ 2H	B8/ 8 OR B7/ 2H	
GASKET	SPW S.S 304/316 WITH CAF/ GRAFOIL		



CLASS 150 (DIMENSION TABLE)

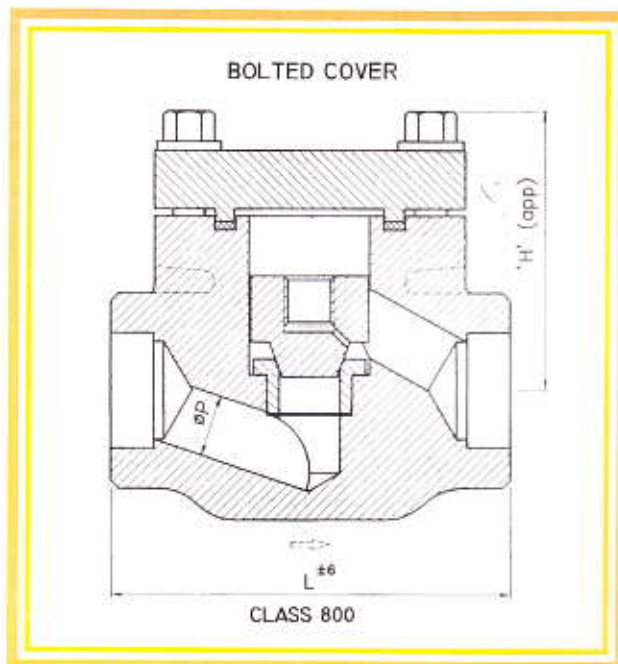
VALVE SIZE mm	15	20	25	40
L	108	118	127	165
'H' app	60	70	80	105
Wt. kg	2	3	3.8	11.5

CLASS 300 (DIMENSION TABLE)

VALVE SIZE mm	15	20	25	40
L	152.5	178	203	228.5
'H' app	60	70	80	105
Wt. kg app	2.5	3.5	7.5	12

CLASS 600 (DIMENSION TABLE)

VALVE SIZE mm	15	20	25	40
L	165	190.5	216	241
'H' app	70	80	105	115
Wt. kg app	2.75	3.7	8.5	13.5



CLASS 800 DIMENSION TABLE

VALVE SIZE mm	08	10	15	20	25	40	50
L	85	85	85	90	103	128*	142
'H' app	60	60	60	70	80	105	115
øP		6.0	9.0	12.0	17.5	29.5	35.0
Wt. kg app	1.5	1.5	1.5	2.0	2.5	6	8

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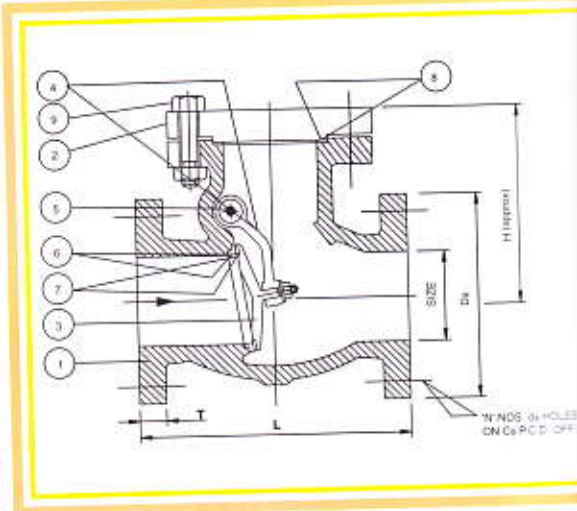
1, A. J. C. BOSE ROAD, KOLKATA-700 020

Cast Iron Swing Type Non Return (Reflux) Valve



BS 5153

600	1219 ⁺⁶	650	813	48	749	20	35
500	1067 ⁺⁶	600	699	43	635	20	32
450	965 ⁺⁵	565	635	40	578	16	32
400	914 ⁺⁵	515	597	37	540	16	29
350	787 ⁺⁴	490	533	35	476	12	29
300	698 ⁺⁴	425	483	32	432	12	25
250	622 ⁺⁴	360	406	30	362	12	25
200	495 ⁺³	290	343	29	298	8	22
150	356 ⁺²	240	279	25	241	8	22
125	330 ⁺²	220	254	24	216	8	22
100	292 ⁺²	195	229	24	191	8	19
80	241 ⁺²	180	191	19	152	4	19
65	216 ⁺²	160	178	17	140	4	19
50	203 ⁺²	140	152	16	121	4	19
40	165 ⁺¹	120	127	14	98	4	16
32	140 ⁺¹	110	117	13	89	4	16
25	117 ⁺¹	100	108	11	79	4	16
20	117 ⁺¹	90	98	11	70	4	16
15	117 ⁺¹	80	89	11	60	4	16
SIZE (NB)	L	H APPROX	D ϕ ⁺¹⁵	T ⁺¹	C ϕ ⁺¹	N	d ϕ ^{+0.5}



- VALVES MANUFACTURED AS PER BS : 5153.
- FLANGE END DRILLING STANDARD AS PER ANSI CLASS 125.
- TESTING AS PER BS : 5153.

RATING	HYDRAULIC TEST PRESSURE	
	BODY	SEAT
PN-6	10Kg/Cm ²	6Kg/Cm ²
PN-10	15Kg/Cm ²	10Kg/Cm ²
PN-16	24Kg/Cm ²	16Kg/Cm ²

PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON IS:210 FG 200
2	COVER	-do-
3	DISC	-do-
4	HINGE	-do-
5	HINGE PIN	BRASS / AISI 410
6	SEAT RING	GUN METAL / AISI 410
7	DISC FACING	-do-
8	GASKET	COMPRESSED ASBESTOS FIBRE IS:2712 Gr.C
9	BOLTS & NUTS	CARBON STEEL IS:1367 CL 4.6/4



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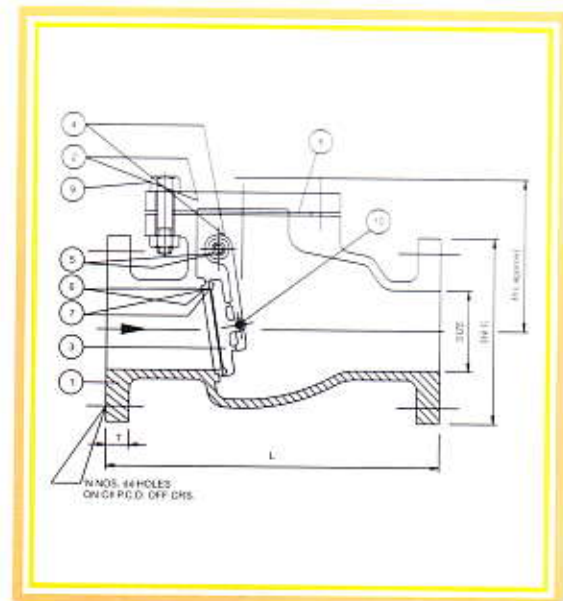
1, A. J. C. BOSE ROAD, KOLKATA-700

Cast Iron Swing Type Non-Return (Reflux) Valve



IS : 5312

600	1300 ^{±6}	650	780	36	725	20	31
500	1100 ^{±6}	600	670	33	620	20	28
450	1000 ^{±5}	565	615	31.5	565	20	28
400	900 ^{±5}	515	565	30	515	16	28
350	800 ^{±4}	490	505	29	460	16	23
300	700 ^{±4}	425	445	27.5	400	12	23
250	600 ^{±3}	360	395	26	350	12	23
200	500 ^{±3}	290	340	24.5	295	8	23
150	400 ^{±3}	240	285	23	240	8	23
125	350 ^{±2}	220	250	22.5	210	8	19
100	300 ^{±2}	195	220	22	180	8	19
80	260 ^{±2}	180	200	21	160	4	19
65	240 ^{±2}	160	185	16	145	4	18
50	200 ^{±2}	140	165	16	125	4	18
SIZE (NB)	L	H APPROX	$D\phi^{+15}$	T^{+1}	$C\phi^{+1}$	N	$d\phi^{+0.5}$



PART LIST

PART No.	DESCRIPTION	MATL. & SPCN.
1	BODY	CAST IRON IS:210 FG 200
2	COVER	-do-
3	DISC	-do-
4	HINGE	-do-
5	HINGE PIN	BRASS / AISI 410
6	SEAT RING	GUN METAL / AISI 410
7	DISC FACING	-do-
8	GASKET	COMPRESSED ASBESTOS FIBRE IS:2712 Gr.C
9	BOLTS & NUTS	CARBON STEEL IS:1367 CL 4.6/4
10	DOOR PIN	BRASS / AISI 410

RATING	WORKING PRESSURE	DYDRAULIC TEST PRESSURE	
		BODY	SEAT
PN-10	10Kg/Cm ²	15Kg/Cm ²	10Kg/Cm ²
PN-16	16Kg/Cm ²	24Kg/Cm ²	16Kg/Cm ²

- VALVES MANUFACTURED AS PER IS : 5312 (PART-1).
- FLANGE AND DRILLING STANDARD AS PER IS:5312 (PART-1) 50NB & 65NB AND FOR 80NB & ABOVE AS PER IS:1538.
- TESTING AS PER IS : 5312 (PART-1).



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1, A. J. C. BOSE ROAD, KOLKATA-700 020

Wafer Type Dual Plate Check Valve



API 594

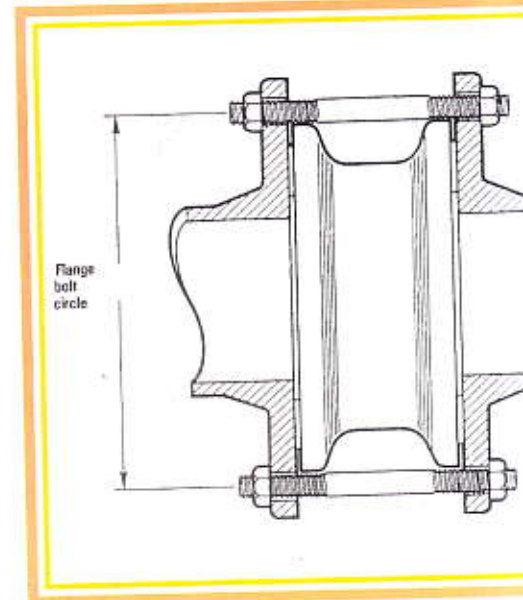
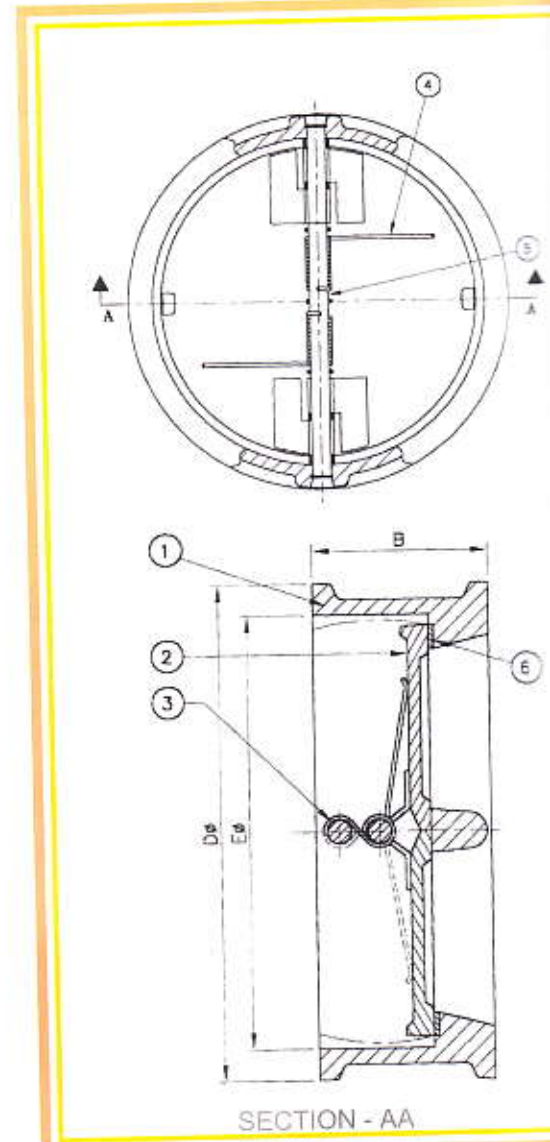
PART LIST

PART	DESCRIPTION	MATL. & SPCN.
1	BODY	C.I. / C.S. / SS.
2	CLOSURE PLATE	C.I. / C.S. / SS.
3	STOP PIN	S.S. AISI 410 / 304
4	SPRING	S.S. AISI 410 / 304
5	HINGE PIN	S.S. AISI 410 / 304
6	BODY RING	G.M. / SS / EPDM

(DIMENSION TABLE) FOR CLASS 150

900	368	1048	-
800	356	939	813
750	305	883	-
700	305	832	-
600	222	716	610
500	219	606	508
450	203	549	203
400	191	514	406
350	184	451	356
300	181	401	324
250	146	338	265
200	127	279	219
150	98	220	165
125	90	197	145
100	73	175	114
80	73	137	89
65	67	124	75
50	60	105	60
SIZE (NB)	B ±2	D ±1.5	Eφ ±1.0

- Manufacturing standard - API : 594
- For C. I. Dual Disc Check Valves pressure rating will be - PN 1.0/PN 1.6 Class - 125#
- Flange ends to suit ANSI B16.5 or Customer's Requirements
- Stellite Seat can also be provided at extra cost
- Nitrile Rubber seat for body / Discs are also available
- By-pass arrangement also available
- Testing standard - API : 598
- Lifting eye bolt shall be provided on 300 mm and above
- Tolerance where not specified ± 2%
- Rating - ANSI Class 150, 300, 600



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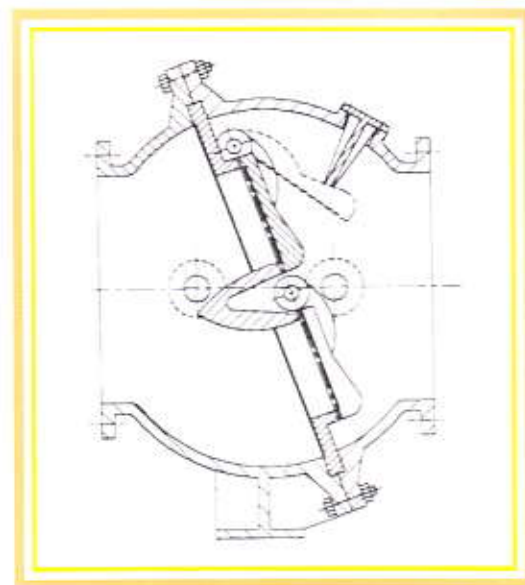
1, A. J. C. BOSE ROAD, KOLKATA-7

TYPE REFLUX VALVE

PART LIST

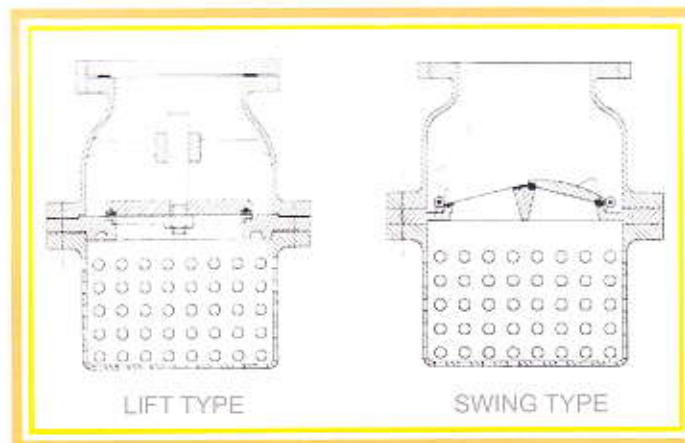
PART	DESCRIPTION	MATL. & SPCN.
1	INLET SHELL WITH DUCKFOOT	CAST STEEL/CAST IRON
2	OUTLET SHELL WITH HOLE FOR STOPPER	CAST STEEL/CAST IRON
3	DIAPHRAGM	CAST STEEL/CAST IRON
4	HINGE PIN	13% Cr. ST. STEEL
5	DOORS	CAST STEEL/CAST IRON
6	STOPPER	CAST STEEL/CAST IRON
7.	FACE RINGS ON DOORS	13% Cr./GUN METAL/RUBBER
8.	SEAT RINGS ON DIAPHRAGMS	13% Cr./GUN METAL/RUBBER
9.	BOLTS & NUTS	CS / MS
10.	BEARING BUSHES	GUN METAL

Valves manufactured as per IS : 5312 (Part-2)
 Flange and Drilled Dimn. as per Customer's Requirement
 Pressure rating : PN - 0.6, PN - 1.0.
 Size : 500 NB - 1200 NB



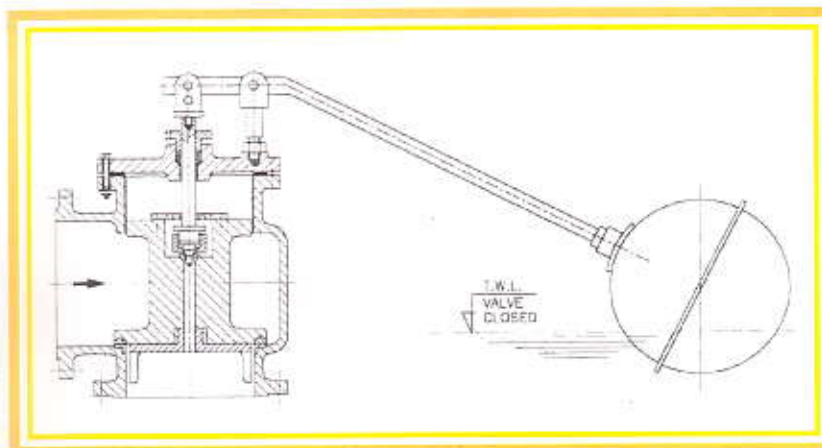
Foot Valve

Construction	Swing/Lift type
Body Materials	Cast Iron
Trims	Leather/Rubber / Bronze / Stainless Steel
End Connection	Flanged IS/BS/ASA
Mfg. Standard	IS : 4038
Pressure Class	PN 2.5, PN4, PN6, PN10
Sizes	25 mm to 450 mm



Float Valve

Construction	Bolted Cover, Angle Pattern
Body Materials	Cast Iron / Cast Steel
Trims	Bronze/Stainless Steel
Lever Fulcrum	Mild Steel
Float	Copper/Stainless Steel
End Connection	Flanged BS/ASA/IS/DIN
Mfg. Standard	Maker's Standard (Similar to G & K)
Pressure Class	NP 10
Sizes	25 mm to 300 mm
Special Features	Pilot Operated



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