



BRONZE

GLOBE

STEAM STOP VALVE SCREWED / FLANGED

EVERLASTING & PERFECT

DESCRIPTION :

'WJ' BRONZE GLOBE STEAM STOP VALVE, Screwed Bonnet, inside screw, Rising stem, with Back Seat Arrangement having Renewable stainless steel seat and stem, Screwed Female Ends BSP Taper & Flanged Ends to BS-10 Table 'H', Hand wheel operated. Suitable for saturated steam lines upto 250 PSIG (17.58 Kg/Cm²) and Max. Temp. of 428°F (220°C) Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic.

SALIENT FEATURES :

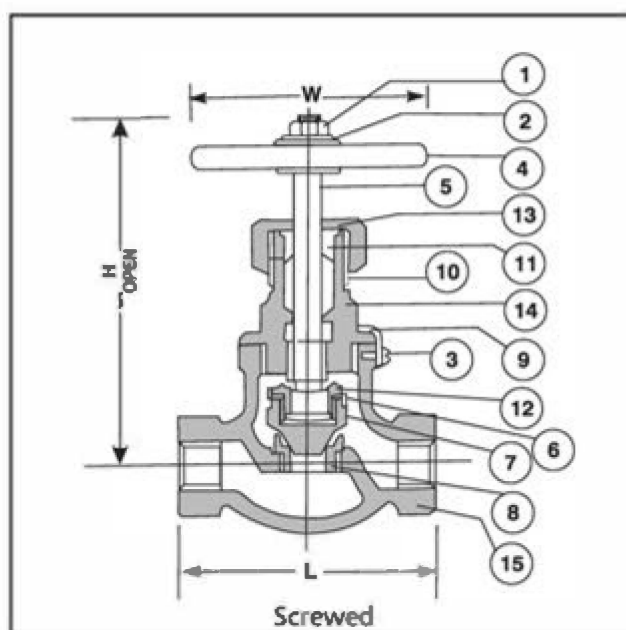
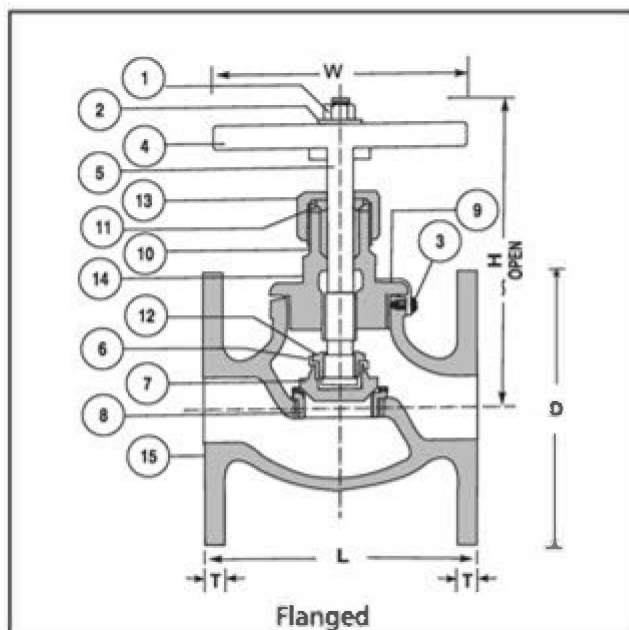
'WJ' Bronze Globe Steam Stop Valves are provided with following features to give trouble free service.

1. Back Seat Arrangement is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
2. Bonnet is locked for safety of operating staff.
3. Valve Disc and check nut are locked by a S.S. (AISI 304) locking washer.
4. Body Seat Ring and Disc are properly Heat Treated with at least 50 BHN difference.
5. Heavy and sturdy hand wheel with firm grip is provided.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size DN	END TO END OR FACE TO FACE DISTANCE				CENTER TO TOP OPEN (Approx.)	HANDWHEEL DIAMETER
	SCREWED L	FLANGED L	D	T	H	W
15 mm (½")	83	106	114.3	9.5	120	70
20 mm (¾")	95	112	114.3	9.5	120	75
25 mm (1")	111	124	120.7	11.2	133	90
32 mm (1¼")	133.5	137.5	133.4	11.2	165	90
40 mm (1½")	148	149.5	139.7	12.7	178	105
50 mm (2")	178	177.5	165.1	12.7	215	140

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Handwheel	M.S.	----
2.	Washer	M.S.	----
3.	Screw	Brass	----
4.	Hand Wheel	Cast Iron / D.I. / M.I.	----
5.	Stem	S.S.	AISI-410
6.	Locking Washer	S.S.	AISI-304
7.	Disc	S.S.	AISI-410
8.	Body Seat Ring	S.S.	AISI-410
9.	Locking Device	Brass Sheet	----
10.	Packing	Graphited Asbestos	----
11.	Gland	Extruded Brass Rod	----
12.	Disc Retaining Nut	Bronze	IBR 282 (a) IV Gr. B.
13.	Gland Nut	Bronze	IBR 282 (a) IV Gr. B.
14.	Bonnet	Bronze	IBR 282 (a) IV Gr. B.
15.	Body	Bronze	IBR 282 (a) IV Gr. B.



BRONZE

HORIZONTAL LIFT CHECK VALVE SCREWED / FLANGED

**SCIENTIFICALLY DESIGNED,
EVERLASTING,
SMOOTH PERFORMANCE**

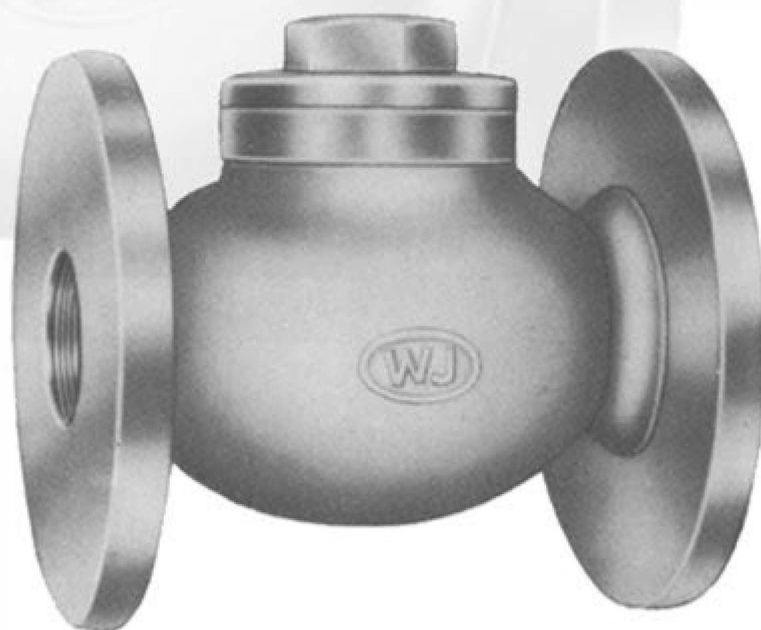
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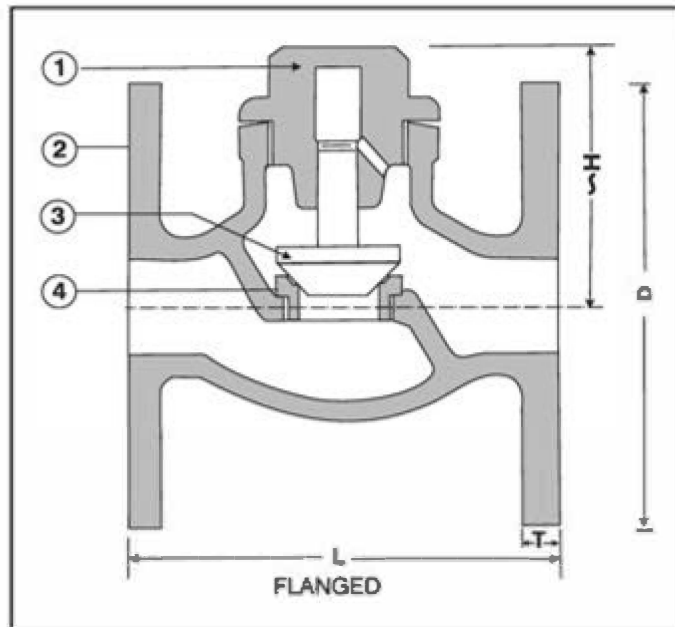
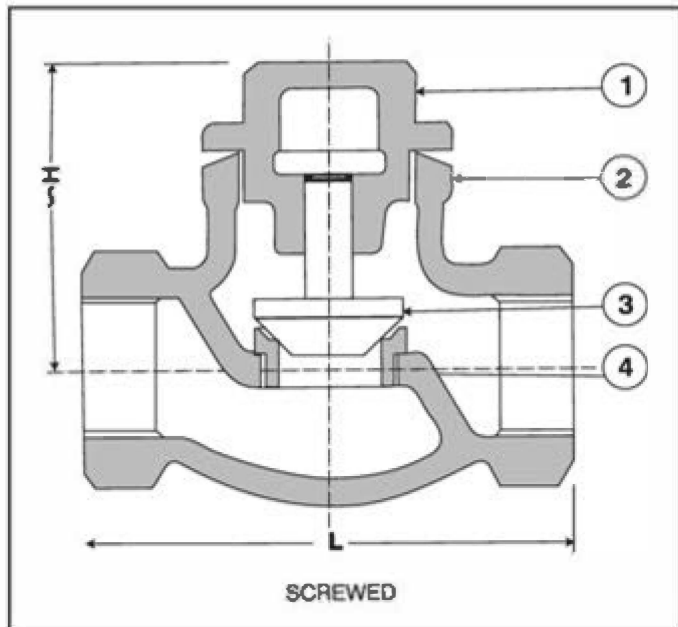
'WJ' BRONZE HORIZONTAL LIFT CHECK VALVE screwed cover with Stainless Steel Trim. Screwed Female Ends BSP Taper or Flanged Ends to BS-10 Table 'H'. Suitable for steam line upto 250 PSIG (17.58 Kg/Cm²) and Temperature 428°F (220°C). Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

Valves upto 50mm (2") size are manufactured with Screwed in covers and higher sizes are manufactured with Bolted covers. Valves of 40mm (1½") and 50mm (2") are also manufactured with bolted cover for direct application on Boilers.

TESTING AND CERTIFICATION :

All valves are Tested Hydrostatically at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

NOMINAL SIZE	END TO END / FACE TO FACE DISTANCE				CENTER TO TOP H. APPROX.
	SCREWED L	FLANGED L	D	T	
15 mm (½")	83	106	114.3	9.5	54.5
20 mm (¾")	95	112	114.3	9.5	52.5
25 mm (1")	111	124	120.7	11.2	69
32 mm (1¼")	133.5	137.5	133.4	11.2	75.5
40 mm (1½")	148	149.5	139.7	12.7	84
50 mm (2")	178	177.5	165.1	12.7	90.5
65 mm (2½")	203	216	184.2	14.3	115
80 mm (3")	254	254	203.2	16.0	130
100 mm (4")	275	292	228.6	19.1	170

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B
2.	Body	Bronze	IBR 282 (a) (IV) Gr. B
3.	Valve Disc	Stainless Steel	AISI-410
4.	Body Seat Ring	Stainless Steel	AISI-410



NETA VALVES PVT. LTD.

BRONZE

AUXILIARY

STEAM STOP VALVE

**VALVES MADE WITH MAXIMUM
PRECISION & PERFECTION**

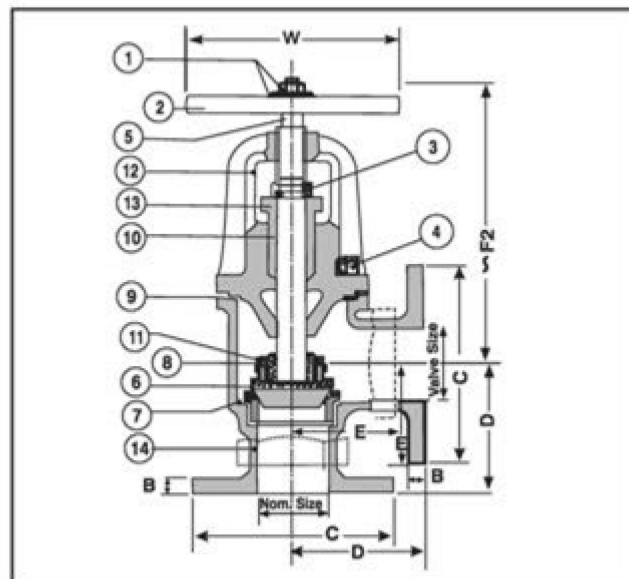
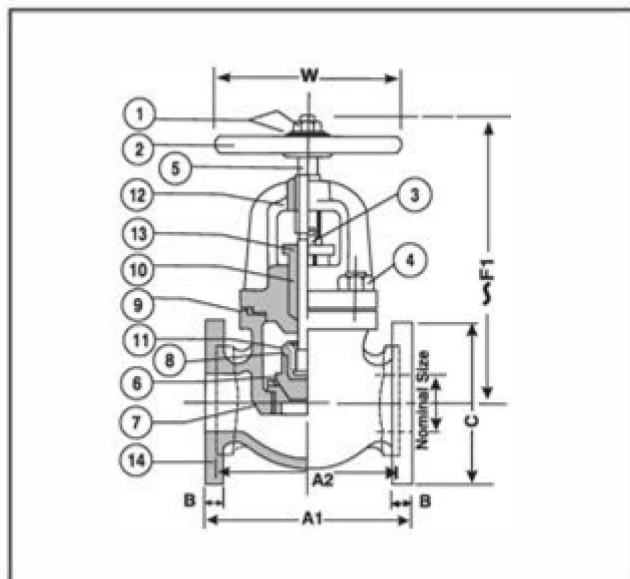
DESCRIPTION :

'WJ' BRONZE AUXILIARY STEAM STOP VALVE, Straight or Right Angle Type, Screwed Female Ends BPST & Flanged Ends to BS-10, Table 'H'. Outside Screw, Yoke Type Rising Stem with S.S. (AISI-410) working parts. Suitable for 250 PSIG (17.58 Kg/Cm²) Max. Working Pressure. Max. Temp. 428°F (220°C). Tested to 500 PSIG (35.15 Kg/Cm²) Hyd. Pressure.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A ¹	A ²	B	C	D	E	F ¹	F ²	W
15 mm (½")	106	83	9.5	114.3	73	41	140	130	70
20 mm (¾")	112	95	9.5	114.3	76	47.5	150	135	75
25 mm (1")	124	111	11.2	120.7	82.5	57	184	155	90
32 mm (1¼")	137.5	133.5	11.2	133.4	89	66.5	227	175	90
40 mm (1½")	149.5	148	12.7	139.7	101.6	76	235	212	105
50 mm (2")	197	178	12.7	165.1	108	89	230	210	140
65 mm (2½")	228	203	14.3	184.2	120	105	300	260	190
80 mm (3")	266.5	228	16	203.2	135	120	320	280	190

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut and Washer	M.S.	-----
2.	Hand Wheel	Cast Iron	IS : 210 Gr. FG-200
3.	Studs & Nuts for Gland	M.S.	-----
4.	Studs & Nuts for Part No. 12 & 14	M.S.	-----
5.	Stem	S.S.	AISI-410
6.	Disc	S.S.	AISI-410
7.	Body Seat Ring	S.S.	AISI-410
8.	Locking Washer	S.S.	AISI-304
9.	Gasket	Steam Jointing	-----
10.	Packing	Graphited Asbestos	-----
11.	Disc Retaining Nut	Bronze	IBR 282 (a) (IV) Gr. B
12.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B
13.	Gland	Bronze	IBR 282 (a) (IV) Gr. B
14.	Body	Bronze	IBR 282 (a) (IV) Gr. B



NETA VALVES PVT. LTD.

BRONZE

CONTROLLABLE FEED CHECK VALVE

SUPER SMOOTH PERFORMANCE

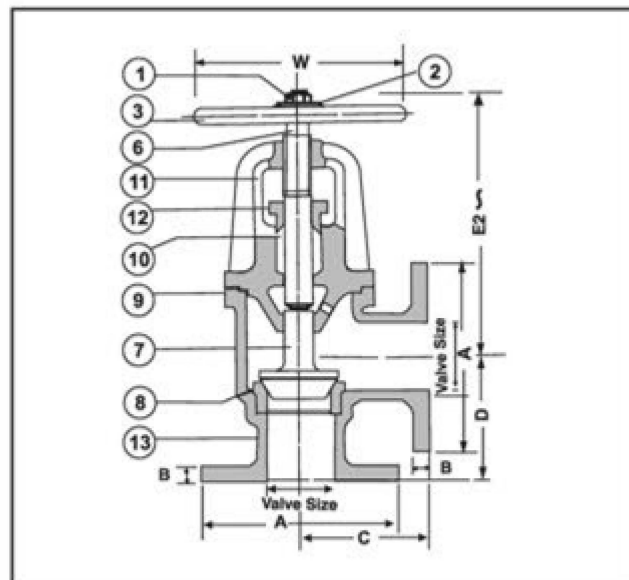
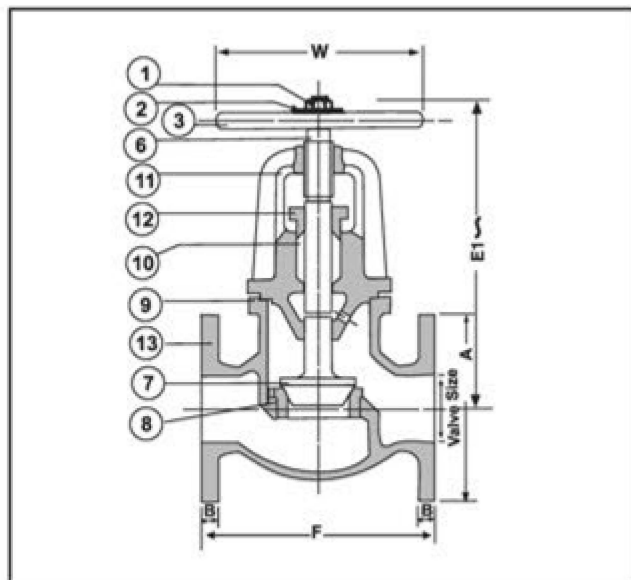
DESCRIPTION :

'WJ' BRONZE CONTROLLABLE FEED CHECK VALVE, Straight or Right Angle Pattern, outside screw, Yoke Type, Rising Stem, with S.S. (AISI-410) working parts Flanged Ends to BS-10 Table 'H'. Suitable for 250 PSIG (17.58 Kg/Cm²) Max. Working Pressure and 428°F (220°C) Temperature. Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E ¹ (Approx.)	E ² (Approx.)	F	W (Approx.)
15 mm (½")	114.3	9.5	73	73	140	130	106	70
20 mm (¾")	114.3	9.5	76	76	150	135	112	75
25 mm (1")	120.7	11.2	82.5	82.5	184	155	124	90
32 mm (1¼")	133.4	11.2	89	89	227	175	137.5	90
40 mm (1½")	139.5	12.7	101.6	101.6	235	212	149.5	105
50 mm (2")	165.1	12.7	108	108	230	210	197	140
65 mm (2½")	184.2	14.3	120	120	300	260	228	190
80 mm (3")	203.2	16	135	135	320	280	266.5	190

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Handwheel	M.S.	-----
2.	Washer for Handwheel	M.S.	-----
3.	Hand Wheel	Cast Iron	IS : 210 Gr. FG 200
4.	Studs & Nuts for Gland	M.S.	-----
5.	Studs & Nuts for Part No. 11 & 13	M.S.	-----
6.	Spindle	S.S.	AISI-410
7.	Valve Disc	S.S.	AISI-410
8.	Body Seat Ring	S.S.	AISI-410
9.	Gasket	Steam Jointing	AISI-410
10.	Packing	Graphited Asbestos	-----
11.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B
12.	Gland	Bronze	IBR 282 (a) (IV) Gr. B
13.	Body	Bronze	IBR 282 (a) (IV) Gr. B



NETA VALVES PVT. LTD.

BRONZE

ACCESSIBLE

FEED CHECK VALVE

**EASILY ACCESSIBLE
WHILE IN OPERATION**

DESCRIPTION :

'WJ' BRONZE ACCESSIBLE FEED CHECK VALVE, Angle Type, outside screw, Yoke Type, Rising Stem. S.S. (AISI-410) Seat and Stem, having Flanged Ends to BS-10 Table 'H'. Suitable for 250 PSIG (17.58 Kg/Cm²) Max. Working Pressure and 428°F (220°C) Temp. Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

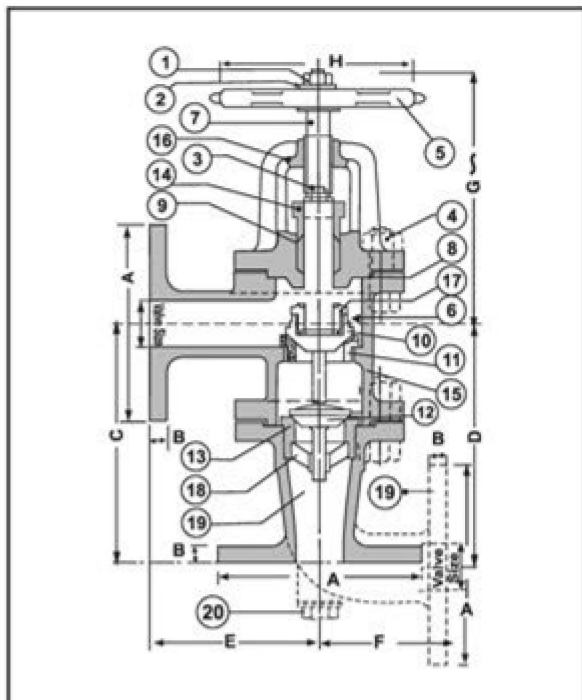
SALIENT FEATURES :

1. Accessible Feed Check Valve consists of two valves a stop valve operated by a hand wheel and a back Pressure Check Valve.
2. Available with straight or curved inlet.
3. Accessibility of check valve can be examined while the Boiler is in operation by closing the stop valve & removing the inlet.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS								
Nominal Size	A	B	C	D	E	F	G Approx.	H Approx.
20mm (¾")	114.3	9.5	127	130	67	67	145	75
25mm (1")	120.7	11.2	152	156	114	114	160	90
32mm (1¼")	133.4	11.2	159	162	111	83	170	90
40mm (1½")	139.7	12.7	141	146	90	90	200	105
50mm (2")	165.1	12.7	172	178	102	102	225	140
65mm (2½")	184.2	14.29	211	213	122	122	250	190
80mm (3")	203.2	15.88	232	238	133	133	270	190

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Handwheel	M.S.	-----
2.	Washer	M.S.	-----
3.	Studs and Nuts for Gland	M.S.	IS : 1367
4.	Bolts and Nuts	M.S.	IS : 1367
5.	Hand Wheel	Cast Iron	IS : 210 Gr. F. G 200
6.	Disc Nut	S.S.	AISI-410
7.	Spindle	S.S.	AISI-410
8.	Gasket	Steam Jointing	-----
9.	Packing	Graphited Asbestos	-----
10.	Valve Disc	S.S.	AISI-410
11.	Body Seat Ring	S.S.	AISI-410
12.	Check Valve Disc	S.S.	AISI-410
13.	Check Valve Seat Ring	S.S.	AISI-410
14.	Gland	Bronze	IBR 282 (a) (IV) Gr. B
15.	Body	Bronze	IBR 282 (a) (IV) Gr. B
16.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B
17.	Check Nut	Bronze	IBR 282 (a) (IV) Gr. B
18.	Check Valve Guide	Bronze	IBR 282 (a) (IV) Gr. B
19.	Valve Inlet	Bronze	IBR 282 (a) (IV) Gr. B
20.	Drain Plug	Bronze	IBR 282 (a) (IV) Gr. B



NETA VALVES PVT. LTD.

BRONZE

SPRING LOADED

**SAFETY VALVE
SCREWED / FLANGED**

**SPECIALLY DESIGNED FOR
SAFETY UNDER
MAXIMUM PRESSURE**

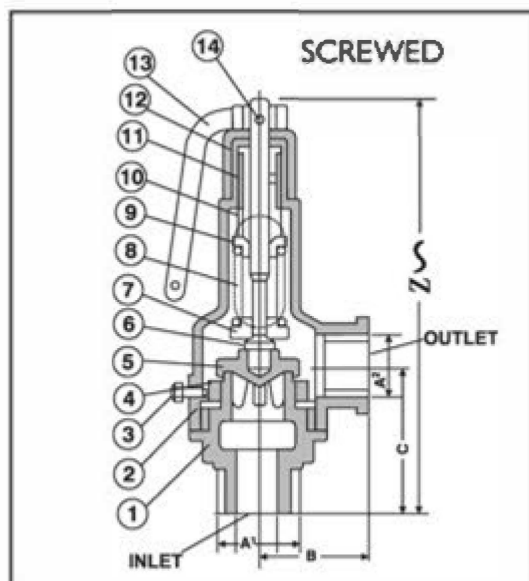
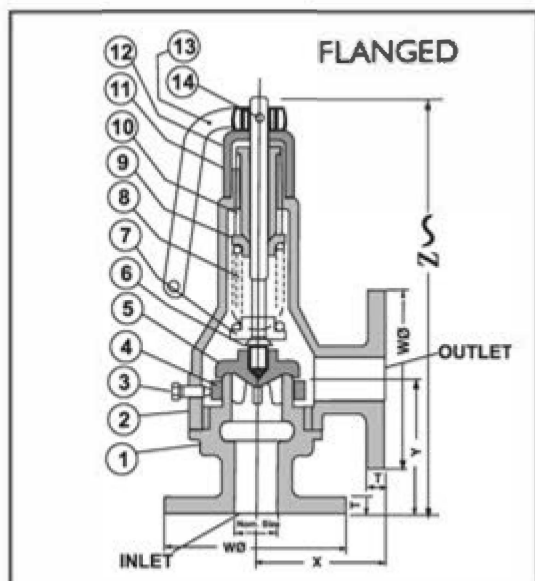
DESCRIPTION :

'WJ' BRONZE SPRING LOADED SAFETY VALVE
Screwed Male Ends BSPT Threads and Flanged Ends
to BS-10 Table 'F'. Max Set Pressure for these safety
valves is 150 PSIG (10.54 Kg/Cm²). These are
manufactured in Enclosed Discharge and open
Discharge Designs. Max. Temp. 220°C.

TESTING AND CERTIFICATION :

All safety valves are set at the Pressure required by the
customer. Max set Pressure being 150 PSIG (10.54
Kg/Cm²). Each safety valve is supplied with IBR Test
Certificate in Form III-C issued by The Director of
Boilers, Punjab.





DIMENSIONS

NOMINAL SIZE	A ¹	A ²	B	C	D	W	T	X	Y	Z
DN 15 (½")	½" BSPT	½" BSP	40	55	180	95.3	8	60	65	190
DN 20 (¾")	¾" BSPT	¾" BSP	50	65	190	102	8	65	75	200
DN 25 (1")	1" BSPT	1" BSP	55	75	215	121	9.5	75	85	225
DN 32 (1¼")	1¼" BSPT	1¼" BSP	60	85	253	133.5	9.5	80	90	258
DN 40 (1½")	1½" BSPT	1½" BSP	65	88	255	140	11.5	85	100	267
DN 50 (2")	2" BSPT	2" BSP	72	103	290	165	11.5	100	110	297
DN 65 (2½")	2½" BSPT	2½" BSP	90	120	360	184.5	13	110	125	365
DN 80 (3")	3" BSPT	3" BSP	105	135	385	203.5	14.5	120	140	390

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Chamber	Bronze	IBR 282 (a) (IV) Gr. B
3.	Locking Screw	Brass	----
4.	Regulating Ring	Bronze	IBR 282 (a) (IV) Gr. B
5.	Valve Disc	Bronze	IBR 282 (a) (IV) Gr. B
6.	Stem	Mn. Bronze	-----
7.	Lower Spring Disc	Bronze	IBR 282 (a) (IV) Gr. B
8.	Spring	Carbon Steel	IBR 307-314
9.	Upper Spring Disc	Bronze	IBR 282 (a) (IV) Gr. B
10.	Adjusting Screw	Bronze	IBR 282 (a) (IV) Gr. B
11.	Check Nut	Bronze	IBR 282 (a) (IV) Gr. B
12.	Cap	Bronze	IBR 282 (a) (IV) Gr. B
13.	Easing Lever	C.I.	IBR 86 to 93 Gr. A
14.	Locking Pin	S.S.	----



NETA VALVES PVT. LTD.

BRONZE

SPRING LOADED POP TYPE

**SAFETY VALVE
SCREWED / FLANGED**

**SPECIALLY DESIGNED FOR
SAFETY UNDER
MAXIMUM PRESSURE**

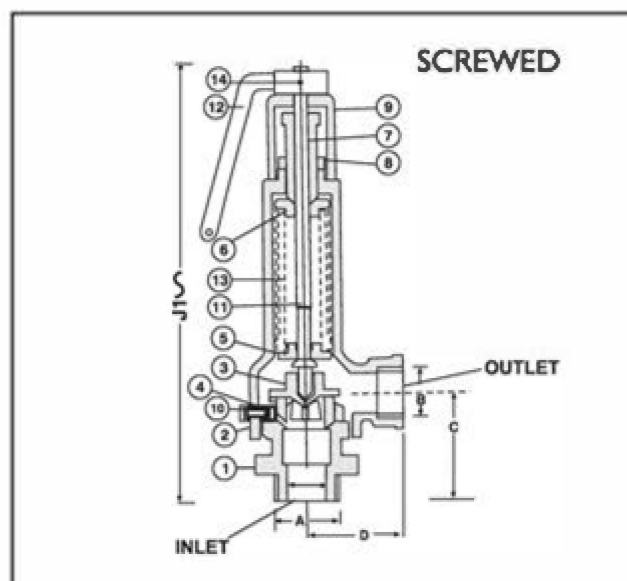
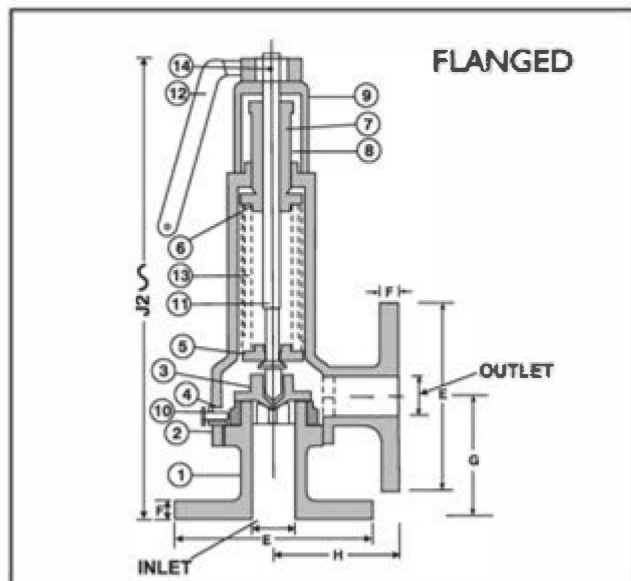
DESCRIPTION :

'WJ' BRONZE SPRING LOADED POP TYPE SAFETY VALVE Screwed Male Ends BSPT Threads or Flanged Ends to BS-10 Table 'H'. Max Set Pressure for these safety valves is 250 PSIG (17.58 Kg/Cm²). These are manufactured in enclosed discharge and open discharge designs.

TESTING AND CERTIFICATION :

All pop type safety valves are set at the Pressure required by the customer. Max set Pressure being 250 PSIG (17.58 Kg/Cm²). Each pop type safety valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E	F	G	H	J ¹ (Approx.)	J ² (Approx.)
15 mm (½")	¼" BSPT	½" BSP	65	44	114.3	9.5	73	70	240	248
20 mm (¾")	1" BSPT	¾" BSP	70	64	114.3	9.5	73	73	260	263
25 mm (1")	1¼" BSPT	1" BSP	70	64	120.7	11.2	75	75	290	295
32 mm (1¼")	1½" BSPT	1¼" BSP	95	66	133.4	11.2	83	83	342	330
40 mm (1½")	2" BSPT	1½" BSP	95	66	139.7	12.7	95	95	342	342
50 mm (2")	2½" BSPT	2" BSP	110	85	165.1	12.7	110	110	410	406
65 mm (2½")	3" BSPT	2½" BSP	112	110	184.2	14.28	125	125	455	468
80 mm (3")	4" BSPT	3" BSP	145	120	203.2	15.88	140	140	485	480

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Chamber	Bronze	IBR 282 (a) (IV) Gr. B
3.	Disc	Bronze	IBR 282 (a) (IV) Gr. B
4.	Regulating Ring	Bronze	IBR 282 (a) (IV) Gr. B
5.	Lower Spring Disc	Bronze	IBR 282 (a) (IV) Gr. B
6.	Upper Spring Disc	Bronze	IBR 282 (a) (IV) Gr. B
7.	Adjusting Screw	Bronze	IBR 282 (a) (IV) Gr. B
8.	Check Nut	Bronze	IBR 282 (a) (IV) Gr. B
9.	Cap	Bronze	IBR 282 (a) (IV) Gr. B
10.	Locking Screw	Brass	-----
11.	Spindle	MN. Bronze	-----
12.	Easing Lever	Cast Iron	-----
13.	Spring	Carbon Steel	IBR 307-314
14.	Pin	S.S.	AISI-410



RELIEVING CAPACITIES OF 'WJ' BRONZE POP TYPE SAFETY VALVE FOR SATURATED STEAM AT 10% ACCUMULATION IN Kg. OF STEAM PER HOUR AT SET PRESSURE

SET PRESSURE Kg. / Cm ² g	VALVE SIZE							
	15 mm (½")	20 mm (¾")	25 mm (1")	32 mm (1¼")	40 mm (1½")	50 mm (2")	65 mm (2½")	80 mm (3")
1.0	20	46	82	128	185	329	514	740
2.0	29	68	122	191	276	491	767	1104
3.0	39	91	162	254	367	653	1020	1469
4.0	49	113	203	317	458	815	1273	1833
5.0	59	136	243	380	549	977	1526	2198
6.0	69	159	283	443	640	1139	1780	2562
7.0	79	181	324	506	731	1301	2033	2927
8.0	88	204	364	569	822	1463	2286	3291
9.0	98	227	405	632	914	1625	2539	3656
10.0	108	249	445	695	1005	1787	2792	4020
12.0	128	295	526	821	1187	2111	3299	4749
15.0	157	363	647	1010	1460	2597	4058	5843
17.58	183	421	751	1172	1695	3014	4709	6780





BRONZE

PARALLEL SLIDE BLOW OFF VALVE

CONFIRM TO HIGH PERFORMANCE

DESCRIPTION :

'WJ' BRONZE PARALLEL SLIDE BLOW OFF VALVE Rack and Pinion operated Flanged Ends to BS-10 Table 'H' is manufactured for Maximum Boiler operating Pressure of 250 PSIG (17.58 Kg/Cm²) upto 428°F (220°C). Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

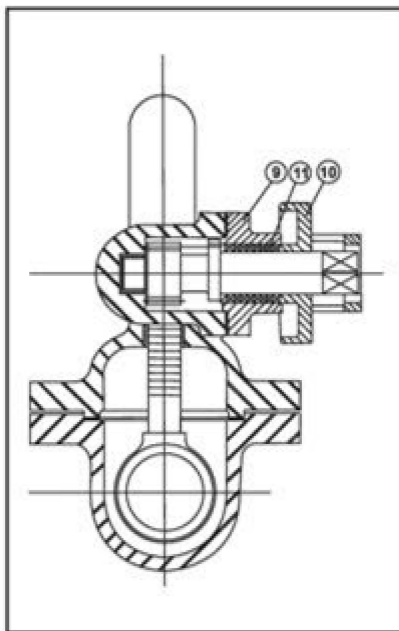
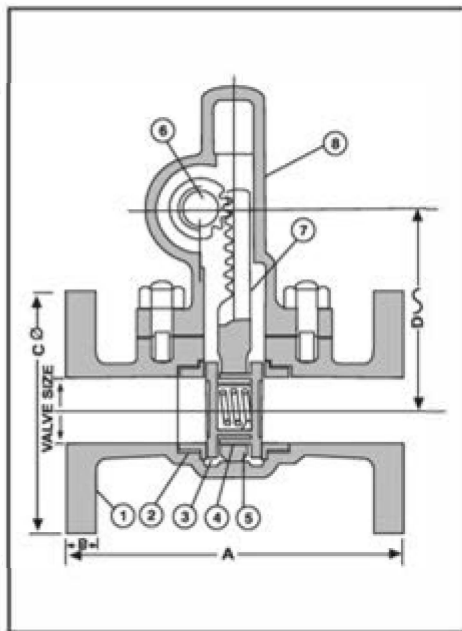
SALIENT FEATURES :

1. It maintains fluid tightness and ease of operation without the aid of wedging action.
2. Discs are kept in close contact with body seat rings by means of a spring when the valve is not under pressure.
3. Slide valve action removes all foreign matter from the faces of seats.
4. Valve is operated by means of Rack and pinion arrangement in such a manner that valve is opened fully with half turn of the box key.
5. Gland forms a locking guard which prevents the removal of key unless the valve is closed.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	A	B	C	D
25 mm (1")	167	11.2	120.7	92
32 mm (1¼")	173	11.2	133.4	112
40 mm (1½")	179.5	12.7	139.7	116
50 mm (2")	193.5	12.7	165.1	146
65 mm (2½")	219	14.2	184.2	163
80 mm (3")	241.5	16.0	203.2	182

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Body Seat Ring	S.S.	AISI-304 / AISI-410
3.	Inside Disc	S.S. / Monal	AISI-304 / AISI-410
4.	Outside Disc	S.S.	AISI-304 / AISI-410
5.	Spring	Carbon Steel	IBR 307-314
6.	Pinion	S.S.	AISI-410
7.	Rack	Bronze	IBR 282 (a) (IV) Gr. B
8.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B
9.	Stuffing Box	Bronze	IBR 282 (a) (IV) Gr. B
10.	Gland	Bronze	IBR 282 (a) (IV) Gr. B
11.	Packing	Graphited Asbestos	----



NETA VALVES PVT. LTD.

BRONZE

SLEEVE PACKED

WATER LEVEL GAUGE SCREWED / FLANGED

**MADE WITH MAXIMUM
PRECISION & PERFECTION**

DESCRIPTION :

'WJ' BRONZE SLEEVE PACKED WATER LEVEL GAUGE. Flanged Ends to Table 'H' and Screwed Male Ends to BSP Taper Threads with automatic shut off in the water arm. Suitable for 250 PSIG (17.58 Kg/Cm²). Max. B.O.P. And Max. Temp. upto 428°F (220°C). Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

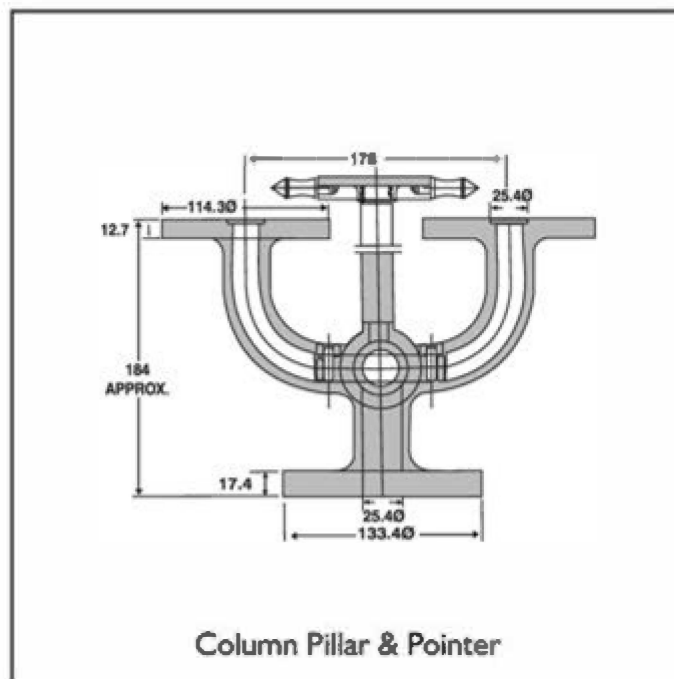
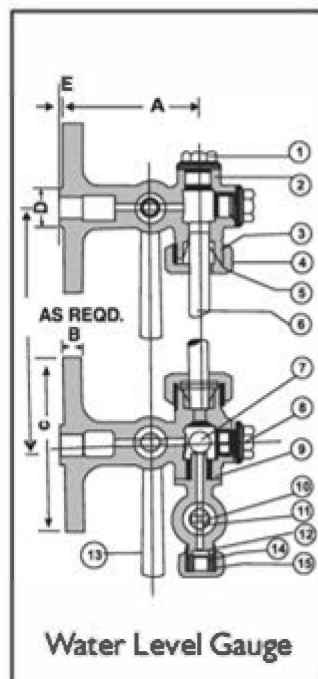
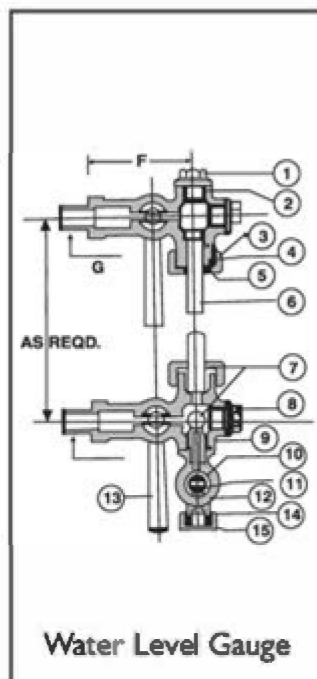
SALIENT FEATURES :

1. Each Cock is fitted with a self adjusting inverted Taper plug which forms a seal in a renewable moulded asbestos sleeve.
2. The sleeve can be easily positioned in the cock by a rib which fits a corresponding groove in the body.
3. The sleeve is reinforced by metallic eyelets to avoid clogging of the passage.
4. A ball valve in the water arm cuts off water supply in the event of breakage of glass tube.
5. Glass tubes are fitted with replaceable rubber cones.

TESTING AND CERTIFICATION :

All Water Level Gauges are Tested at Double the Maximum Working Pressure. Each gauge is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E	F	G
15 mm ($\frac{1}{2}$ ")	88.5	12.7	114.3	19	3	80	$\frac{1}{2}$ " BSPT
20 mm ($\frac{3}{4}$ ")	95.0	12.7	114.3	25	3	90	$\frac{3}{4}$ " BSPT

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Top Gauge Plug	Bronze	IBR 282 (a) (IV) Gr. B.
2.	Top Gauge Arm	Bronze	IBR 282 (a) (IV) Gr. B.
3.	Gland Nut	Bronze	IBR 282 (a) (IV) Gr. B.
4.	Rubber Cone	Rubber	
5.	Washers	Bronze	IBR 282 (a) (IV) Gr. B.
6.	Glass Tube	Glass	
7.	Ball	S.S.	AISI-304
8.	Bottom Gauge Side Nut	Bronze	IBR 282 (a) (IV) Gr. B.
9.	Bottom Gauge Arm	Bronze	IBR 282 (a) (IV) Gr. B.
10.	Sleeve	Moulded Asbestos	
11.	Spindle	S.S.	AISI-410/AISI-304
12.	Drain Cock	Bronze	IBR 282 (a) (IV) Gr. B.
13.	Handle	Brass	
14.	Bottom Nut	Bronze	IBR 282 (a) (IV) Gr. B.
15.	Drain Nipple	Bronze	IBR 282 (a) (IV) Gr. B.



BRONZE

ASBESTOS PACKED WATER LEVEL GAUGE

**MADE WITH
MAXIMUM PERFECTION**

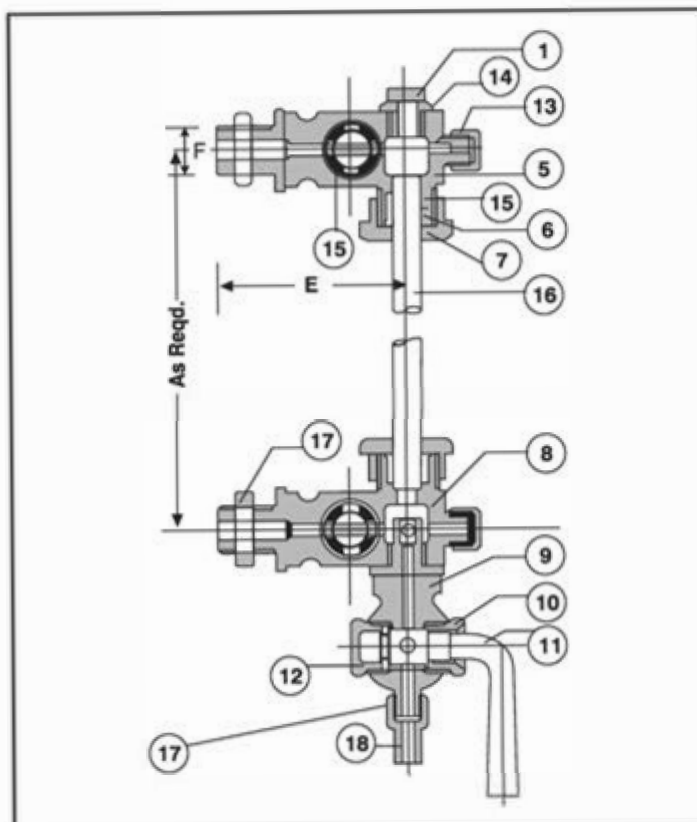
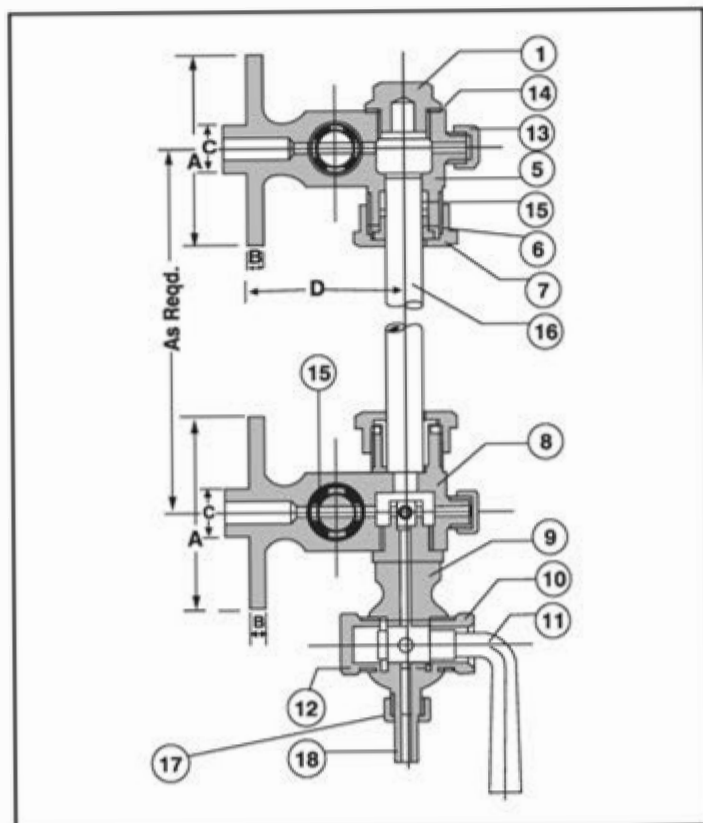
DESCRIPTION :

'WJ' BRONZE ASBESTOS PACKED WATER LEVEL GAUGE Screwed Male Ends BSPT Threads and Flanged Ends to BS-10 Table 'F'. Suitable for Max. Pressure of 150 PSIG (10.54 Kg/Cm²). And Max. Temp. 428°F (220°C). Tested to 300 PSIG (21.08 Kg/Cm²) Hydrostatic Pressure.

TESTING AND CERTIFICATION :

All Water Level Gauges are Tested at Double the Max. Working Pressure. Each Water Level Gauge is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E	F
15 mm ($\frac{1}{2}$ ")	95.4	7.9	19.0	58	85	$\frac{1}{2}$ " BSPT
16 mm ($\frac{3}{8}$ ")	101.6	7.9	25.4	77	110	$\frac{3}{8}$ " BSPT
20 mm ($\frac{3}{4}$ ")	101.6	7.9	25.4	77	110	$\frac{3}{4}$ " BSPT

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Top Nut	Bronze	IBR 282 (a) (IV) Gr. B.
2.	Cap Nut	Bronze	IBR 282 (a) (IV) Gr. B.
3.	Nut for Plug	Bronze	IBR 282 (a) (IV) Gr. B.
4.	Plug	Bronze	IBR 282 (a) (IV) Gr. B.
5.	Top Arm	Bronze	IBR 282 (a) (IV) Gr. B.
6.	Gland	Bronze	IBR 282 (a) (IV) Gr. B.
7.	Gland Nut	Bronze	IBR 282 (a) (IV) Gr. B.
8.	Bottom Arm	Bronze	IBR 282 (a) (IV) Gr. B.
9.	Drain Cock Body	Bronze	IBR 282 (a) (IV) Gr. B.
10.	Plug Nut	Bronze	IBR 282 (a) (IV) Gr. B.
11.	Drain Plug	Bronze	IBR 282 (a) (IV) Gr. B.
12.	Adjusting Nut	Bronze	IBR 282 (a) (IV) Gr. B.
13.	Drain Nut	Bronze	IBR 282 (a) (IV) Gr. B.
14.	Washer	Steam Jointing	----
15.	Packing	Graphited Asbestos	----
16.	Glass Tube	Glass	----
17.	Retaining Nut	Bronze	IBR 282 (a) (IV) Gr. B.
18.	Nozzle	Bronze	IBR 282 (a) (IV) Gr. B.



NETA VALVES PVT. LTD.

BRONZE

COMBINED

COCK & FEED CHECK VALVE

**EXCLUSIVELY MADE TO
WITHSTAND THE
MAXIMUM OPERATIONS**

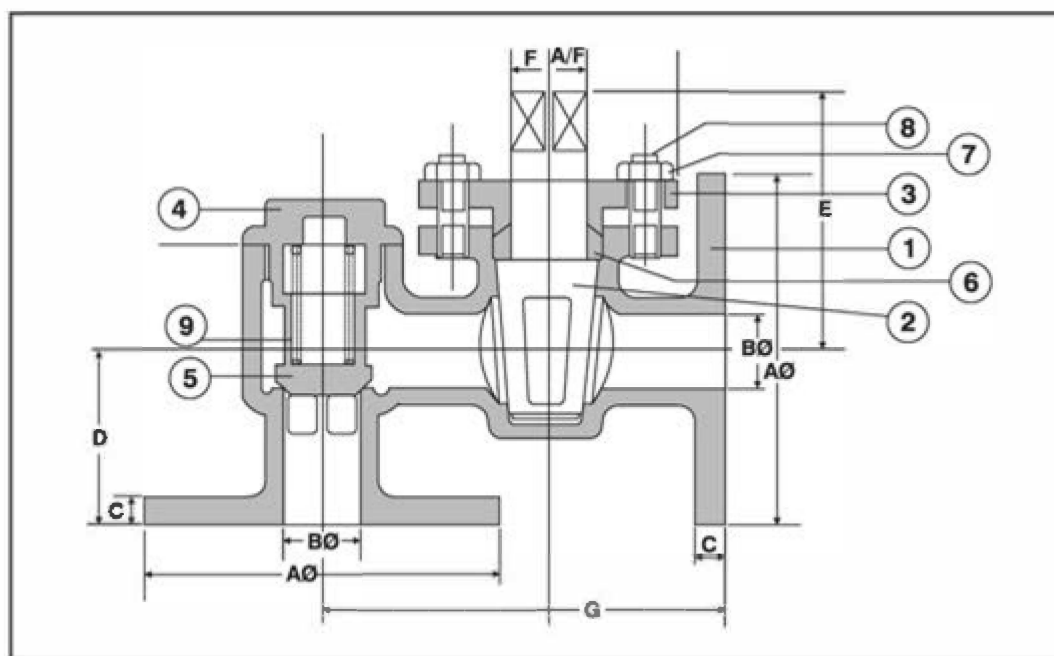
DESCRIPTION :

'WJ' BRONZE COMBINED COCK AND FEED CHECK VALVE. Flanged Ends to BS-10 Table 'F'. Suitable for a Maximum Boiler operating Pressure of 150 PSIG (10.54 Kg/Cm²) at 428°F (220°C). Tested to 300 PSIG (21.08 Kg/Cm²) Hydrostatic Pressure.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E	F	G
15 mm (½")	95.3	12.7	7.9	46	60	12.7	103.2
20 mm (¾")	101.6	20	7.9	49.2	75	16	111
25 mm (1")	120.7	25.4	9.5	60.3	90	17.5	134.2
32 mm (1¼")	133.4	32	9.5	66.7	95	21.4	152.4
40 mm (1½")	139.7	38	11.1	73	102	23.8	169.3
50 mm (2")	165	50.8	11.1	81	140	27	198.4
65 mm (2½")	184.2	63.5	12.7	98.4	165	35	225

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B.
2.	Plug	Bronze	IBR 282 (a) (IV) Gr. B.
3.	Gland	Bronze	IBR 282 (a) (IV) Gr. B.
4.	Bonnet	Bronze	IBR 282 (a) (IV) Gr. B.
5.	Disc	Bronze	IBR 282 (a) (IV) Gr. B.
6.	Packing	Graphited Asbestos	-----
7.	Nuts	Mild Steel	IS : 226
8.	Studs	Mild Steel	IS : 226
9.	Spring	Spring Steel	-----



NETA VALVES PVT. LTD.

BRONZE

Y-TYPE STRAINER SCREWED / FLANGED

SUPER HIGH PERFORMANCE

DESCRIPTION :

'WJ' BRONZE Y-TYPE STRAINERS are manufactured with Brass/S.S. (AISI-304) screen with Screwed Female Ends to BSP Taper Threads and Flanged Ends to BS-10 Table H. These strainers are suitable for 250 PSIG (17.58 Kg/Cm²) Max. Steam Pressure at 428°F (220°C) Temp. and Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

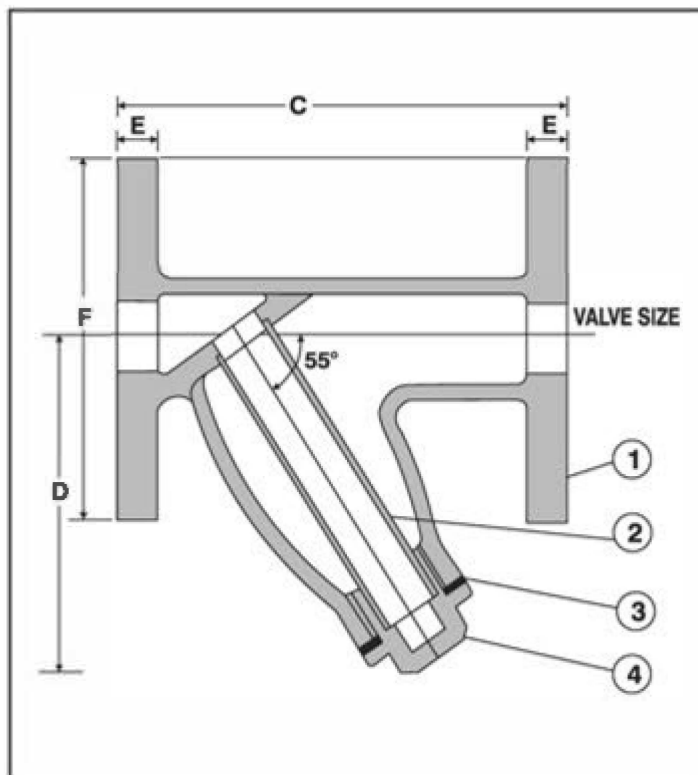
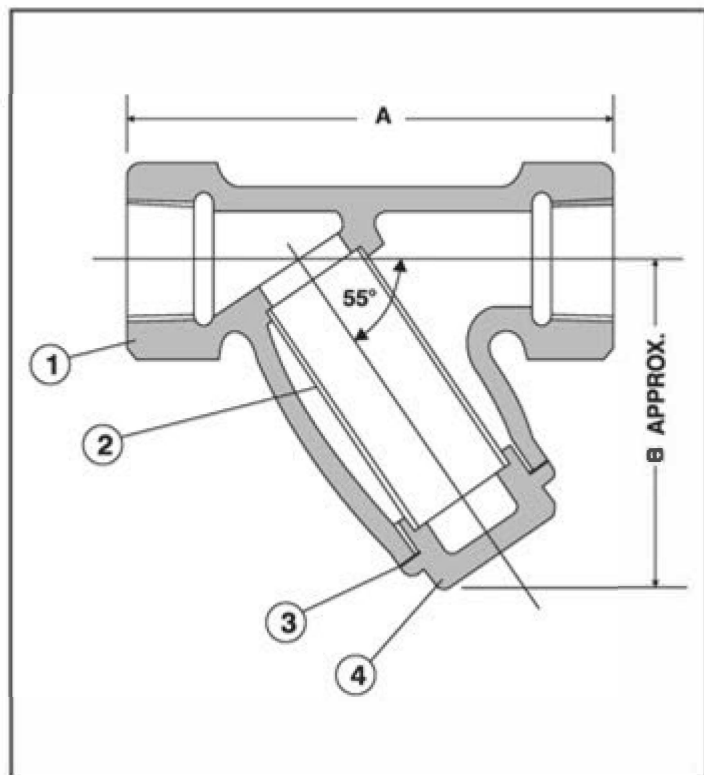
SALIENT FEATURES :

1. Fine finish and smooth contours reduce Pressure drop in the strainer.
2. Large screening area makes the strainer efficient.
3. Screen is guided in the body.
4. Strainer may be installed in the down ward vertical lines with effectiveness equal to horizontal installation.

TESTING AND CERTIFICATION :

All strainers are Tested at Double the Maximum Working Pressure. Each strainer is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E	F
15 mm (1/2")	70	54	130	84	9.5	114.3
20 mm (3/4")	98.5	64	133	90	9.5	114.3
25 mm (1")	127	90	155	112	11.2	120.7
32 mm (1 1/4")	156	110	184	112	11.2	133.4
40 mm (1 1/2")	178	140	190.4	150	12.7	139.7
50 mm (2")	222	160	219	170	12.7	165.1

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Strainer	S.S.	AISI-304
3.	Gasket	C.A.F.	----
4.	Cover	Bronze	IBR 282 (a) (IV) Gr. B



NETA VALVES PVT. LTD.

BRONZE

FUSIBLE PLUG

**DESIGNED IN THREE DIFFERENT
TYPES TO FUNCTION
CONVENIENTLY & SUITABLY**

DESCRIPTION :

'WJ' BRONZE FUSIBLE PLUGS are manufactured in Three Type Designs : (I) One Piece. (II) Two Piece. (III) Loco Type. Max. Boiler Operating Pressure 250 PSIG (17.58 Kg/Cm²). Max. Temp. 220°C (428°F). Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

TYPE I: ONE PIECE DESIGN

This Design has one piece Bronze body filled with Fusible Alloy having Male BSPT Threads. It is manufactured in 15 mm (½"), 20 mm (¾") and 25 mm (1") sizes.

TYPE II: TWO PIECE DESIGN

This Design has a Replaceable cone containing Fusible Alloy Screwed into Bronze body, having Male BSPT Threads. It is manufactured in 15 mm (½"), 20 mm (¾") and 25 mm (1"), 32 mm (1¼"), 40 mm (1½") and 50 mm (2") sizes.

TYPE III: LOCO TYPE

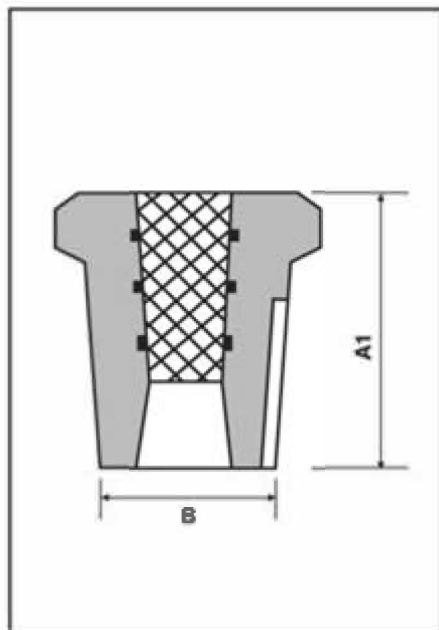
It is suitable for Loco Type Boilers. These have BSPT Threads.

It is manufactured in 25mm (1") and 32 mm (1¼").

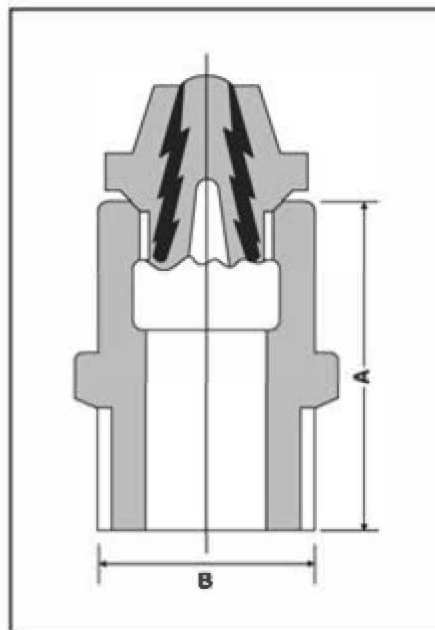
TESTING AND CERTIFICATION :

All Fusible Plugs are Tested at Double the Max. Working Pressure. Each Fusible Plug is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.

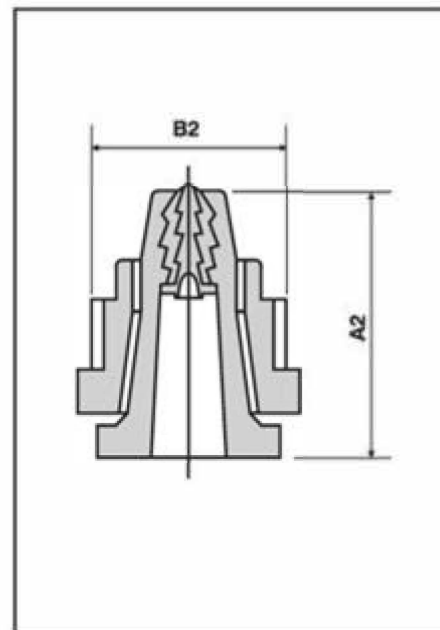




ONE PIECE DESIGN



TWO PIECE DESIGN



LOCO TYPE

DIMENSIONS

Nominal Size	A	B	A ¹	B ¹	A ²	B ²
15 mm (½")	57	½" BSPT	32	½" BSPT	----	----
20 mm (¾")	58	¾" BSPT	38	¾" BSPT	----	----
25 mm (1")	74	1" BSPT	45	1" BSPT	52	1" BSPT
32 mm (1¼")	84	1¼" BSPT	-----	-----	52	1¼" BSPT
40 mm (1½")	88	1½" BSPT	-----	-----	----	----
50 mm (2")	102	2" BSPT	-----	-----	-----	-----

MATERIALS

Bronze and covers are made of Bronze conforming to IBR 282 (a) (IV) Gr B. Fusible alloy is specially prepared to meet requirements of Indian Boiler Regulations.



NETA VALVES PVT. LTD.

BRONZE

THERMO DYNAMIC STEAM TRAP

**ENSURES HIGH
PERFORMANCE**

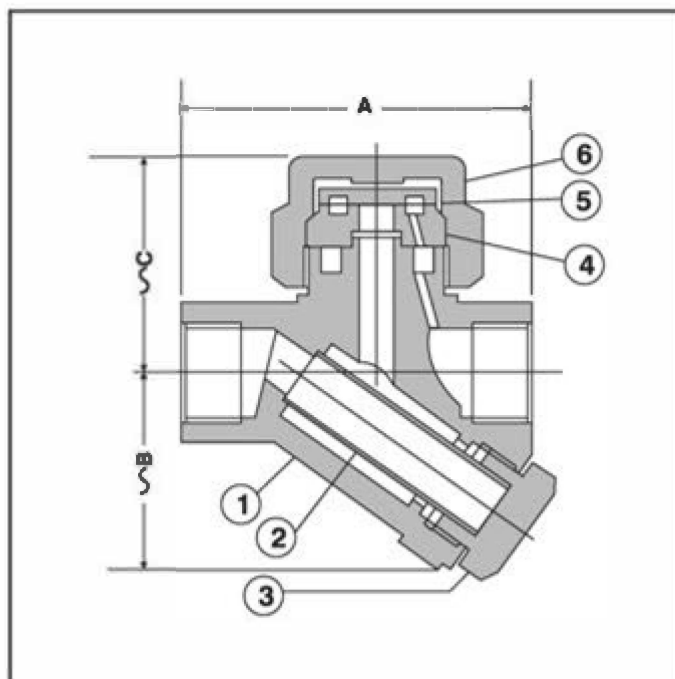
DESCRIPTION :

'WJ' BRONZE THERMODYNAMIC TYPE STEAM TRAP with S.S. (AISI-410) Working Parts and S.S. (AISI-304) strainer, Screwed Female Ends. Suitable for 250 PSIG (17.58 Kg/Cm²) Max. Working Pressure and 428°F (220°C) Temp. Tested to 500 PSIG (35.15 Kg/Cm²) Hydraulic Pressure.

TESTING AND CERTIFICATION :

All Traps are Tested Hydrostatic at Double the Max. Working Pressure. Each Trap is Tested on steam line to see its performance. Each Trap is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS			
NOMINAL SIZE	A	B	C
15 mm (½")	83	55	62
20 mm (¾")	95	55	62
25 mm (1")	117	70	80

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Screen	S.S.	AISI-304
3.	Screen Retaining Nut	M.S.	----
4.	Lower Disc	S.S.	AISI-410
5.	Upper Disc	S.S.	AISI-410
6.	Top Nut	M.S.	-----



NETA VALVES PVT. LTD.

BRONZE

SPRING LOADED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE

**CONFIRM TO HIGH QUALITY
& LONG LIFE**

DESCRIPTION :

'WJ' BRONZE SPRING LOADED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE, having Screwed BSP parallel Female Threads Max. inlet steam pressure 250 PSIG (17.58 Kg/Cm²) and Temp. upto 428°F (220°C) Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

These are available in Three outlet Pressure Ranges i.e. 5/60, 20/80 and 40/125 PSIG.

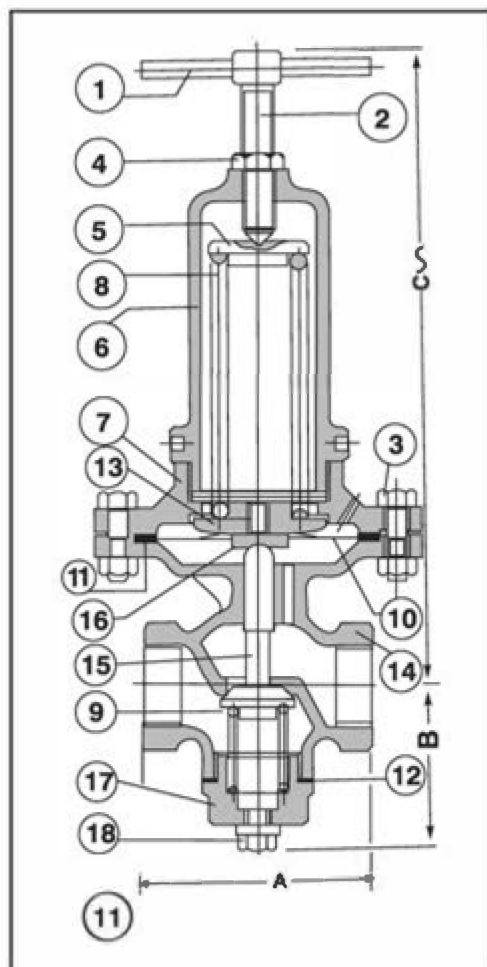
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.

NOTE :

These valves can also be supplied for WATER and AIR service with Rubber Diaphragm & Rubber Seat with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS			
NOMINAL SIZE	A	B	C (Approx.)
15 mm (½")	76.2	50	245
20 mm (¾")	108	68	290
25 mm (1")	114.5	80	360
32 mm (1¼")	133	90	365
40 mm (1½")	136.5	97	385
50 mm (2")	171.5	115	435

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Tomy Bar	M.S.	----
2.	Spring Adjusting Screw	M.S.	----
3.	Nuts and Bolts	M.S.	----
4.	Check Nut	Bronze	IBR 282 (a) (IV) Gr. B
5.	Upper Spring Disc	Cast Iron	IS-210-Gr. FG 200
6.	Spring Chamber	Cast Iron	IS-210-Gr. FG 200
7.	Bonnet	Cast Iron	IS-210-Gr. FG 200
8.	Spring	Carbon Steel	IBR 307 - 314
9.	Bottom Spring	Spring Steel	----
10.	Diaphragm	S.S.	AISI 304
11.	Joint Packing	Steam Jointing	----
12.	Joint Ring	Steam Jointing	----
13.	Bottom Spring Disc	Bronze	IBR 282 (a) (IV) Gr. B
14.	Body	Bronze	IBR 282 (a) (IV) Gr. B
15.	Valve Disc	Bronze	IBR 282 (a) (IV) Gr. B
16.	Seat Holding Disc	Bronze	IBR 282 (a) (IV) Gr. B
17.	Bottom Cover	Bronze	IBR 282 (a) (IV) Gr. B
18.	Plug	Bronze	IBR 282 (a) (IV) Gr. B



BRONZE

VERTICAL

LIFT CHECK VALVE SCREWED / FLANGED

**SMOOTH PERFORMANCE,
TROUBLE FREE SERVICE**

DESCRIPTION :

'WJ' BRONZE VERTICAL LIFT CHECK VALVE with S.S. (AISI-410) Trim, Screwed Female Ends BSPT and Flanged Ends to BS-10 Table 'H' suitable for 250 PSIG (17.58 Kg/Cm²) Max. Working Pressure and 428°F (220°C) Temp. Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

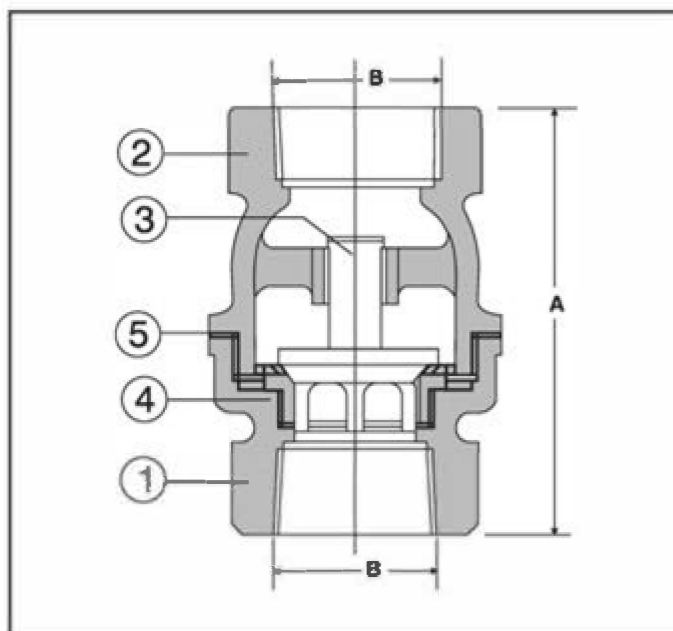
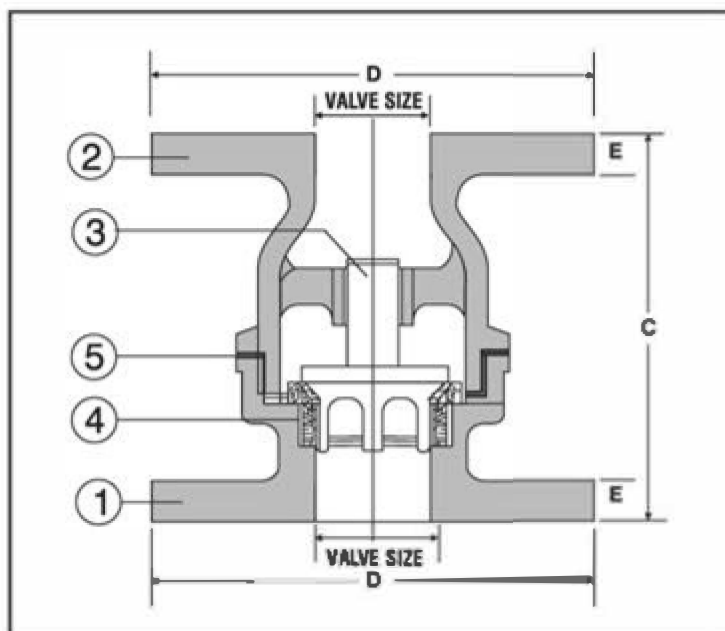
SALIENT FEATURES :

1. Full way area is provided.
2. Valve Disc is Guided to give Trouble Free Service.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Maximum Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E
15 mm ($\frac{1}{2}$ ")	73	$\frac{1}{2}$ " BSPT	70	114.3	9.5
20 mm ($\frac{3}{4}$ ")	76	$\frac{3}{4}$ " BSPT	76	114.3	9.5
25 mm (1")	89	1" BSPT	95	120.7	11.1
32 mm (1 $\frac{1}{4}$ ")	115	1 $\frac{1}{4}$ " BSPT	102	133.4	11.1
40 mm (1 $\frac{1}{2}$ ")	127	1 $\frac{1}{2}$ " BSPT	123	139.7	12.7
50 mm (2")	153	2" BSPT	140	165.1	12.7

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Lower Body	Bronze	IBR 282 (a) (IV) Gr. B
2.	Upper Body	Bronze	IBR 282 (a) (IV) Gr. B
3.	Valve Disc	S.S.	AISI-410
4.	Body Seat Ring	S.S.	AISI-410
5.	Gasket	Steam Jointing	----



NETA VALVES PVT. LTD.

BRONZE

MOBREY VALVE

**DESIGNED TO WORK AT
VARIOUS PRESSURES**

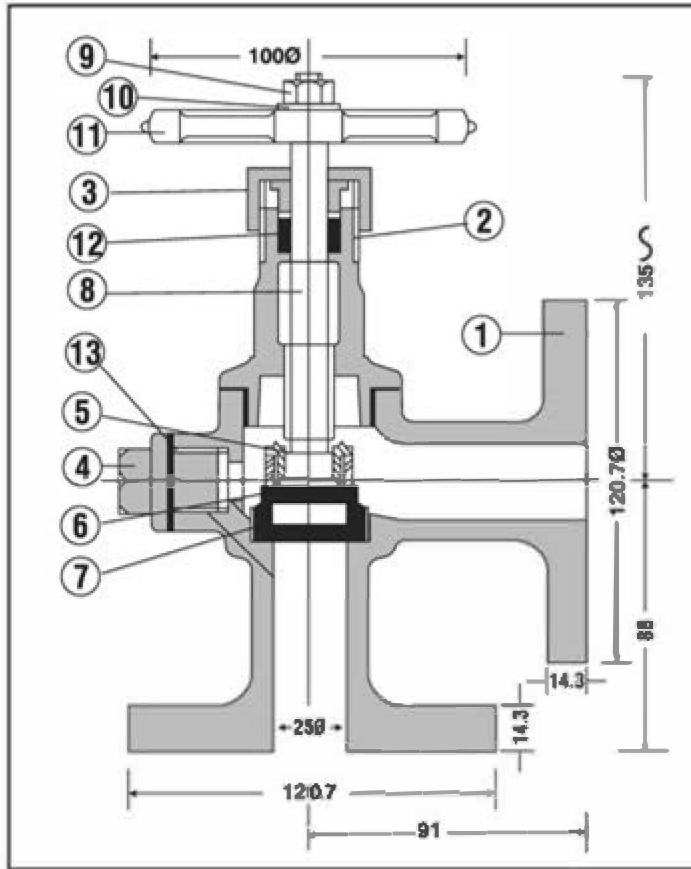
DESCRIPTION :

'WJ' BRONZE MOBREY VALVE Angle Type Inside Screw, Rising Stem with S.S.(AISI-410) Disc and Stem, having Flanges Ends to BS-10 Table H is suitable for 250 PSIG (17.58Kg/Cm²) Max. Working Pressure at 428°F (220°C) Temp. and is Tested to 500 PSIG (35.15 Kg/Cm²) Hydrostatic Pressure.

TESTING AND CERTIFICATION :

All Mobrey Valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





NOTE : ALL DIMENSIONS IN MM.

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Bronze	IBR 282 (a) IV Gr. B
2.	Bonnet	Bronze	IBR 282 (a) IV Gr. B
3.	Gland Nut	Bronze	IBR 282 (a) IV Gr. B
4.	Plug	Bronze	IBR 282 (a) IV Gr. B
5.	Check Nut	Bronze	IBR 282 (a) IV Gr. B
6.	Disc	Stainless Steel	AISI-410
7.	Body Seat Ring	Stainless Steel	AISI-410
8.	Stem	Stainless Steel	AISI-410
9.	Nut	M.S.	----
10.	Washer	M.S.	----
11.	Hand Wheel	C.I.	----
12.	Packing	Graphited Asbestos	----
13.	Gasket	Steam Jointing	----



CAST IRON

PILOT CONTROLLED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE

OPERATES PERFECTLY UNDER DIFFERENT CONDITIONS

DESCRIPTION :

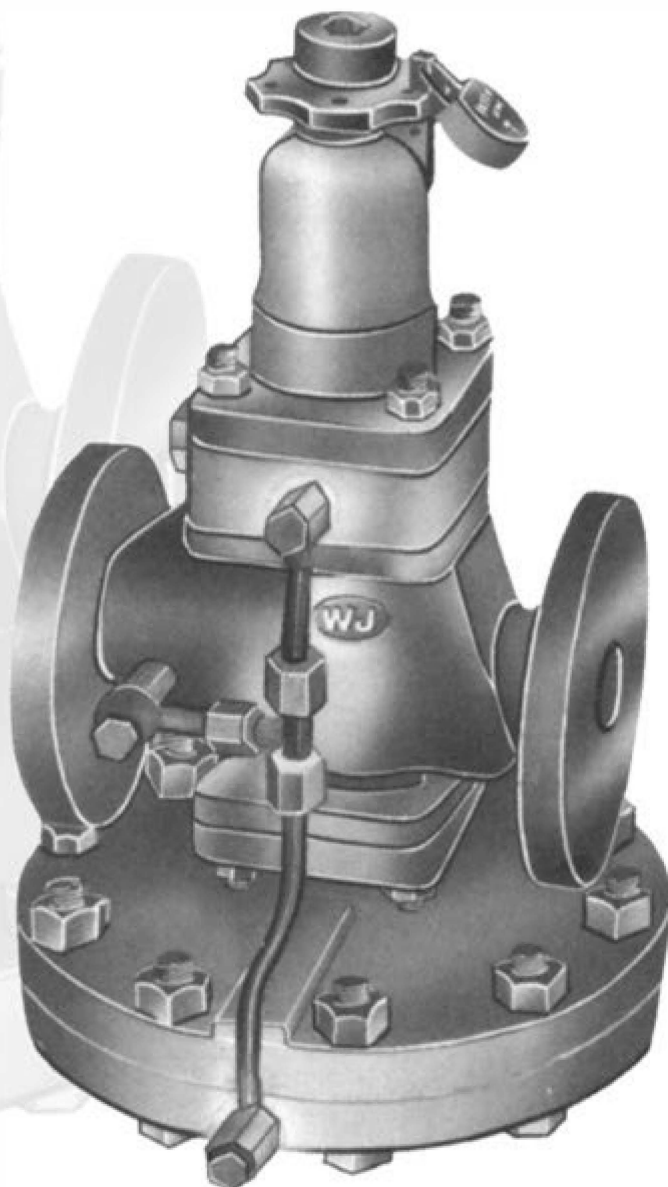
'WJ' CAST IRON PILOT CONTROLLED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE with Flanged Ends to BS-10 Table 'F' are suitable for 185 PSIG (13 Kg/Cm²) Max. working Pressure at 428°F (220°C) Temp. and are Tested to 370 PSIG (26 Kg/Cm²) Hydrostatic. These Valves are available in three Reduced Pressure. Ranges of 5/60, 20/80 and 40/125 on the down stream side.

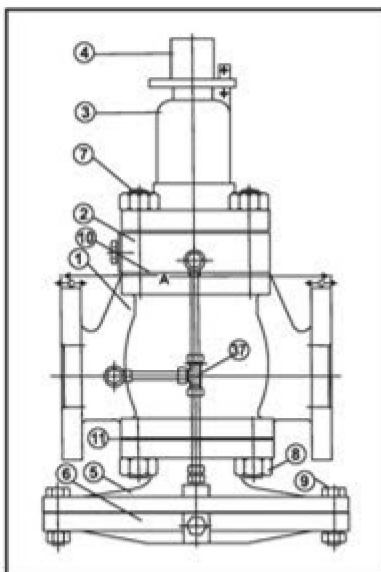
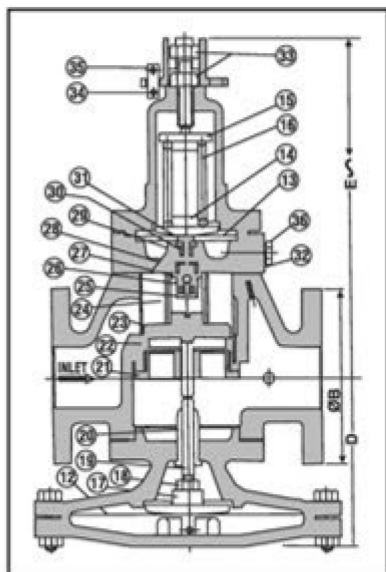
INSTRUCTIONS FOR INSTALLATION :

1. The Valves should be installed in a horizontal pipe line.
2. Stop valves should be installed at inlet & outlet sides of reducing valve.
3. A safety valve should be installed on the down stream side of reducing valve.
4. A steam trap & a strainer should be installed on the upstream side just before the Reducing valve.
5. Clean all scale and jointing material from the pipe line before installing the reducing valve.

TESTING AND CERTIFICATION :

All Reducing Valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS					
Nominal Size	A	B	C	D	E
25mm (1")	168	120.7	12.7	130	200
40mm (1½")	203	139.7	15.88	140	235
50mm (2")	248	165.1	19.05	160	300
65mm (2½")	280	184.15	19.05	180	345
80mm (3")	300	203.2	19.05	200	350

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.I.	IBR-86-93 Gr. A
2.	Bonnet	C.I.	IBR-86-93 Gr. A
3.	Spring Chamber	C.I.	IBR-86-93 Gr. A
4.	Locking Guard	C.I.	IBR-86-93 Gr. A
5.	Diaphragm Chamber	C.I.	IBR-86-93 Gr. A
6.	Bottom Diaphragm Chamber Cover	C.I.	IBR-86-93 Gr. A
7.	Studs with Nuts	M.S.	-----
8.	Studs with Nuts	M.S.	-----
9.	Bolts with Nuts	M.S.	-----
10.	Gasket	C.A.F.	IS-2712 Gr. W/1
11.	Gasket	C.A.F.	IS-2712 Gr. W/1
12.	Lower Diaphragm	S.S.	AISI-304
13.	Upper Diaphragm	S.S.	AISI-304
14.	Lower Spring Disc.	S.S.	AISI-410
15.	Upper Spring Disc.	S.S.	AISI-410
16.	Spring	Carbon Steel	IBR-307-314
17.	Diaphragm Disc.	Bronze	IBR-282 (a) IV Gr. B
18.	Locking Nut	M.S.	-----
19.	Extension Stem	S.S.	AISI-410
20.	Guide Sleeve	Bronze	IBR-282 (a) IV Gr. B
21.	Seat Ring Guide	Bronze	IBR-282 (a) IV Gr. B
22.	Body Seat Ring	S.S.	AISI-410
23.	Valve Disc	S.S.	AISI-410
24.	Disc Spring	S.S.	AISI-302
25.	Pilot Nut	Extruded Brass Rod	-----
26.	Pilot Spring	S.S.	AISI-302
27.	Pilot Valve	S.S.	AISI-304
28.	Pilot Body	S.S.	AISI-410
29.	Pilot Stem	S.S.	AISI-410
30.	Bush	S.S.	AISI-410
31.	Pilot Stem Cap	Bronze	IBR-282 (a) IV Gr. B
32.	Nipple	S.S.	AISI-410
33.	Spring Adjusting Screw	M.S.	-----
34.	Pin	M.S.	-----
35.	Locking Lever	M.S.	-----
36.	Side Plug with Copper Washer	Bronze	IBR-282 (a) IV Gr. B
37.	Pipe Assembly	Copper	-----



CAPACITIES OF 'WJ' PRESSURE REDUCING VALVES FOR STEAM IN Kg. PER HOUR

SET PRESSURE Kg. / Cm ²	OUTLET PRESSURE Kg. / Cm ²	VALVE SIZE				
		25 mm (1")	40 mm (1½")	50 mm (2")	65 mm (2½")	80 mm (3")
2	0.75	190	520	920	1360	2000
	1.5	300	820	1470	2150	3100
4	2.75	275	740	1290	1950	2800
	2.0	385	1020	1850	2720	3900
6	3.5	350	920	1650	2420	3530
	3.5	490	1275	2275	3365	5000
7	4	475	1230	2190	3280	4790
	6	375	980	1750	2560	3740
9	4	600	1590	2820	4140	6140
	6	555	1485	2620	3840	5650
10	7	465	1230	2180	3180	4770
	5	710	1800	3250	4950	7000
13	7	650	1720	3035	4520	6550
	9	500	1300	2550	3450	4950
13	6	850	2210	3900	5720	8230
	7	810	2180	3760	5720	8000
13	9	715	1920	3400	5050	7230
	10	550	1465	2610	3840	5480



CAST IRON FULL LIFT SINGLE POST SAFETY VALVE DISCHARGE CAPACITY FOR SATURATED STEAM (Kg/hr.) AT 10% OVER PRESSURE

CONSTANT 'C' = 0.4

SIZE OF VALVES	ORIFICE DIA	SET PRESSURE (Kg/Cm ²)		
		3.5	7.0	10.54
25 mm (1")	20 mm	600	1075	1550
40 mm (1½")	28 mm	1179	2109	3050
50 mm (2")	38 mm	2172	3884	5618
65 mm (2½")	48 mm	3467	6198	8965
80 mm (3")	57 mm	4889	8740	12647
100 mm (4")	70 mm	7333	13182	19065



NETA VALVES PVT. LTD.

CAST IRON

SPRING LOADED

SAFETY VALVE SINGLE POST & DOUBLE POST

MAXIMUM SAFETY AT VARIOUS PRESSURES

DESCRIPTION :

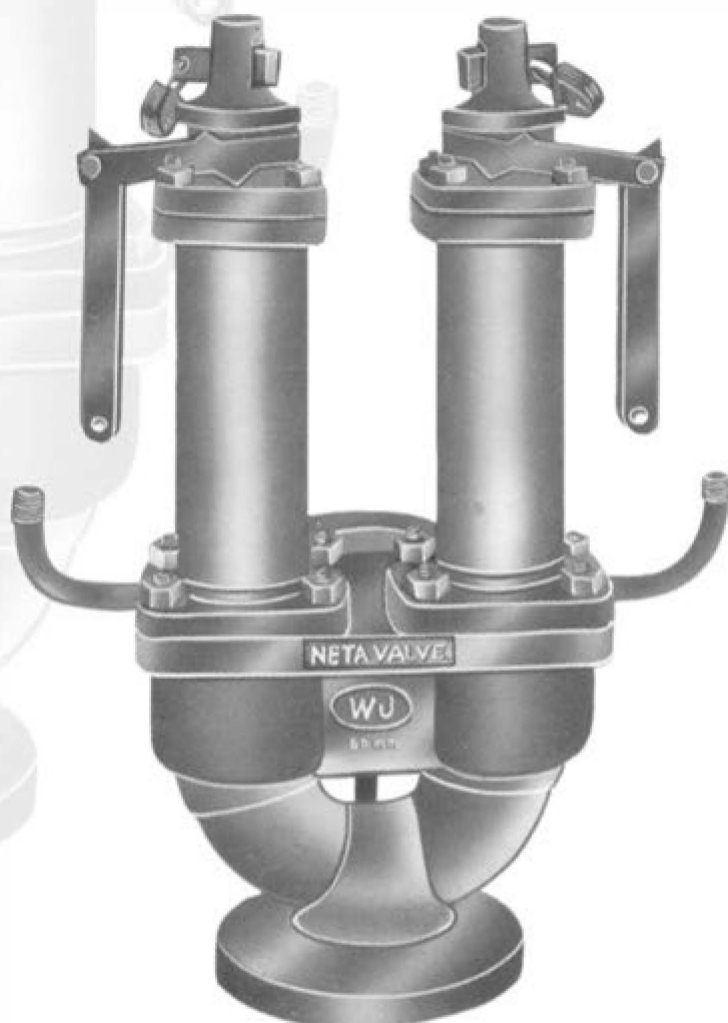
'WJ' CAST IRON SPRING LOADED SAFETY VALVE with 13% Cr. SS (AISI-410) seat and stem are manufactured in Single Post as well as Double Post full lift design. These Safety Valves are set at Max. Pressure of 150 PSIG (10.54 Kg/Cm²). Max. Temp.- 428°F (220°C).

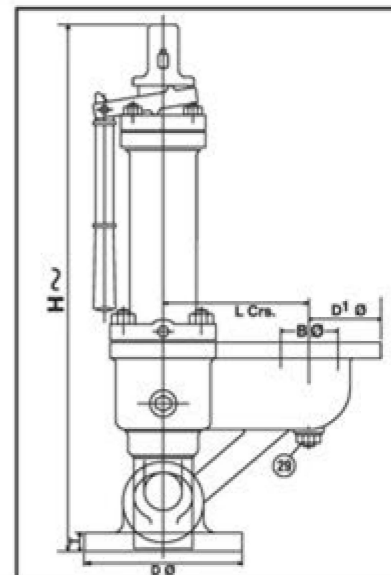
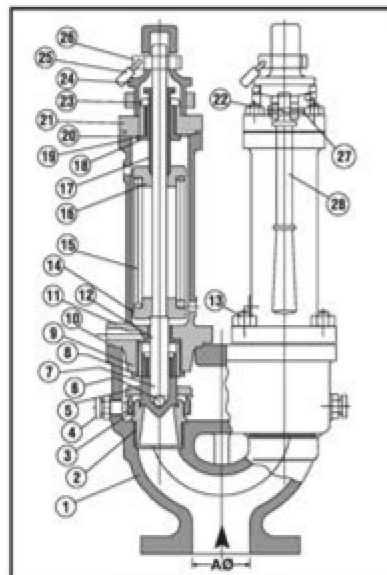
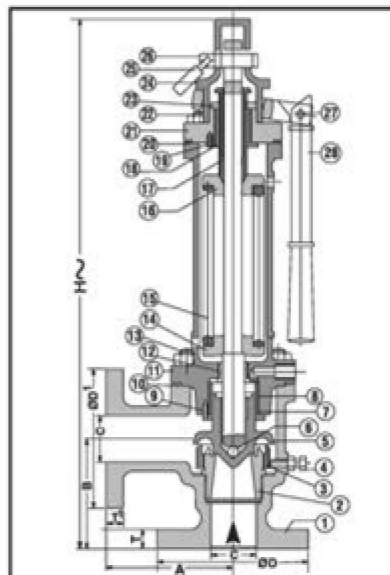
SALIENT FEATURES :

1. These Safety Valves are Designed in such a way that instantaneous full lift to the seat is achieved.
2. Each Safety Valve is provided with an easing lever.
3. To avoid unauthorised alteration to the Set Pressure the adjusting screw and check nut are connected by a cap which is attached to the Valve spindle by cotter and a pad lock.

TESTING AND CERTIFICATION :

All Safety Valve Bodies are Tested at 300 PSIG (21.08 Kg/Cm²) Hydrostatic Pressure. All Valves are set at a Max. Steam Pressure of 150 PSIG (10.54 Kg/Cm²). Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS C.I. SINGLE POST SAFETY VALVE

Nominal Size	A	B	C	D	T	D ¹	T ¹	H
25 mm (1")	108	90	25	121	13	114.5	13	430
40 mm (1½")	120	102	38	140	19	133.5	16	525
50 mm (2")	140	121	50	165	22.2	152.5	19	580
65 mm (2½")	152	135	65	184.5	22.2	165.1	19	800
80 mm (3")	178	160	76	203.5	22.2	184.5	19	813
100 mm (4")	190	186	100	228.6	25.5	216	22.2	900

DIMENSIONS C.I. DOUBLE POST SAFETY VALVE

Nominal Size	A	B	D	T	D ¹	L	H
25 mm (1")	40	40	139.7	17.5	133.5	150	480
40 mm (1½")	57	63.5	184.5	22	165.1	165	585
50 mm (2")	73	76	203.2	22	184.5	190	670
65 mm (2½")	90	90	215.9	25.4	203.2	203.2	890
80 mm (3")	115	115	254	25.4	254	254	940
100 mm (4")	147	147	304.8	28.5	279.4	280	1050

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.I.	IBR-86 To 93 Gr. A
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Regulating Ring	Bronze	IBR-282 (a) IV Gr. B
4.	Locking Screw for Regulating Ring	Bronze	IBR-282 (a) IV Gr. B
5.	Valve Head	13% Cr. S.S.	AISI-410
6.	Ball	S.S.	----
7.	Stem	13% Cr. S.S.	AISI-410
8.	Piston Liner	Bronze	IBR-282 (a) IV Gr. B
9.	Locking Screw	Steel	----
10.	Gasket	C.A.F.	IS : 2712
11.	Chamber	C.I.	IBR-86 To 93 Gr. A
12.	Bush for Chamber	Bronze	IBR-282 (a) IV Gr. B
13.	Studs & Nuts for Body Bonnet	Carbon Steel	----
14.	Bottom Spring Disc	C.I.	IBR-86 To 93 Gr. A
15.	Spring	Carbon Steel	IBR-307-314
16.	Upper Spring Disc	C.I.	IBR-86 To 93 Gr. A
17.	Spring Adjusting Screw	Bronze	IBR-282 (a) IV Gr. B
18.	Bush for Chamber Flange	Bronze	IBR-282 (a) IV Gr. B
19.	Locking Screw	Steel	----
20.	Gasket	C.A.F.	IS : 2712
21.	Chamber Flange	C.I.	IBR-86 To 93 Gr. A
22.	Bolts & Nuts for Chamber Flange	Carbon Steel	----
23.	Check Nut	Bronze	IBR-282 (a) IV Gr. B
24.	Housing Cap	C.I.	IBR-86 To 93 Gr. A
25.	Pad Lock	----	----
26.	Locking Guard	Bronze	IBR-282 (a) IV Gr. B
27.	Pin	S.S.	AISI-410
28.	Easing Lever	M.I.	----
29.	Drain Plug	Bronze	IBR-282 (a) IV Gr. B



CAST IRON

GLOBE STEAM STOP VALVE

STOUT & STURDY, WORKS SMOOTHLY WITHOUT ANY OBSTRUCTION

DESCRIPTION :

'WJ' CAST IRON GLOBE STEAM STOP VALVE Straight and Right Angle Type, Bolted Bonnet outside screw, Yoke Type, Rising Stem with Back Seat Arrangement. Renewable SS (AISI-410/AISI-304) Seat and stem. Flanged Ends. Flanges of Valves upto 200 mm Size are as per DIN 2533, PN-16 Raised Face and Flanges of Valves above 200 mm Size are as per DIN 2532, PN-10 Raised Face. Max. Temp.-428°F (220°C).

SALIENT FEATURES :

1. Provision of Back Seat Arrangement for on line replacement of gland packing when valve is fully open.
2. Minimum pressure drop due to stream lined flow throughout the body.
3. High lift to avoid obstruction in the flow way.
4. Sturdy hand wheel operation with ample grip and clear from top of Yoke.

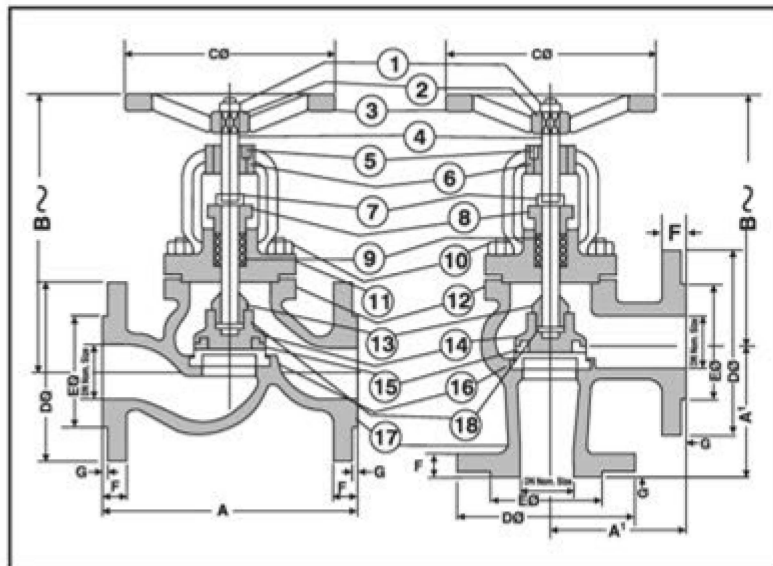
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

Nominal Size	Nominal Pressure (PN)	Body Test Pressure	Max. Steam Working Pressure	Max. Temp.
15mm to 200 mm	16	26 Kg/Cm ²	13 Kg/Cm ²	220°C
250mm to 300 mm	10	17 Kg/Cm ²	8.5 Kg/Cm ²	220°C



Noninal Size	DIMENSIONS							
DN	A	A'	B	C	D	E	F	G
DN 15 (½")	130	90	155	120	95	45	14	2
DN 20 (¾")	150	95	160	120	105	58	16	2
DN 25 (1")	160	100	180	140	115	68	16	2
DN 32 (1¼")	180	105	210	140	140	78	18	2
DN 40 (1½")	200	115	225	190	150	88	18	3
DN 50 (2")	230	125	255	190	165	102	20	3
DN 65 (2½")	290	145	300	250	185	122	20	3
DN 80 (3")	310	155	320	250	200	138	22	3
DN 100 (4")	350	175	360	300	220	158	24	3
DN 125 (5")	400	200	425	300	250	188	26	3
DN 150 (6")	480	225	475	350	285	212	26	3
DN 200 (8")	600	275	550	400	340	268	30	3
DN 250 (10")	730	---	604	450	395	320	28	3
DN 300 (12")	850	---	650	450	445	370	28	4

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Handwheel	Carbon Steel	---
2.	Washer	Carbon Steel	---
3.	Handwheel	C.I.	IS 210 FG 200
4.	Stem	13% Cr. S.S.	AISI-410
5.	Locking Screw	Carbon Steel	---
6.	Yoke Bush	13% Cr. S.S.	AISI-410
7.	T Head Bolts and Nuts	Carbon Steel	---
8.	Gland	C.I.	IBR 86 to 93 Gr. A
9.	Packing	Graphited Asbestos	---
10.	Studs and Nuts	Carbon Steel	---
11.	Bonnet	C.I.	IBR 86 to 93 Gr. A
12.	Gasket	C.A.F.	IS-2712
13.	Disc Nut	13% Cr. S.S.	AISI-410
14.	Valve Disc	C.I.	IBR 86 to 93 Gr. A
15.	Disc Facing Ring	13% Cr. S.S.	AISI-410
16.	Body Seat Ring	13% Cr. S.S.	AISI-410
17.	Body	C.I.	IBR 86 to 93 Gr. A
18.	Stem Collar	13% Cr. S.S.	AISI-410



CAST IRON

HORIZONTAL LIFT CHECK VALVE

**FULLY TESTED &
CERTIFIED TO YIELD
HIGH PERFORMANCE**

DESCRIPTION :

'WJ' CAST IRON HORIZONTAL LIFT CHECK VALVE
Straight and Right Angle Type. Bolted Bonnet with SS (AISI-410/AISI-304) Trim. Flanged Ends. Flanges of Valves upto 200 mm are as per DIN 2533, PN-16 Raised Face and Flanges of Valves above 200 mm size are as per DIN 2532, PN-10 Raised Face.

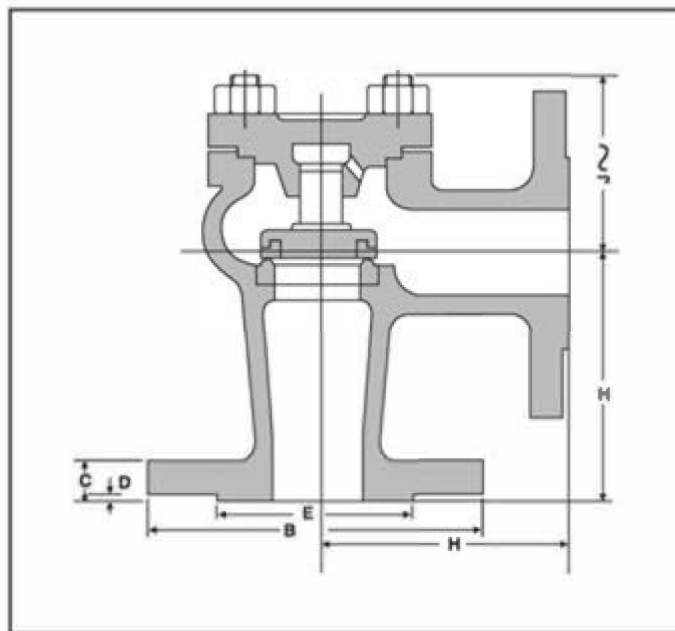
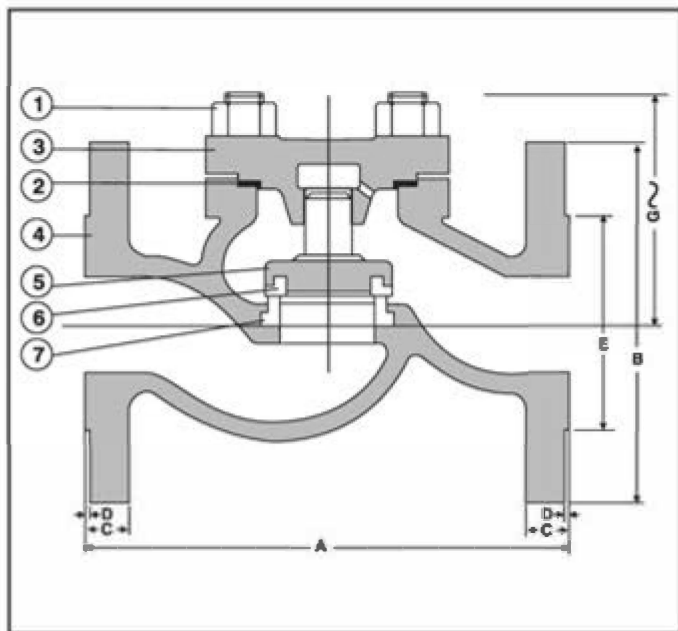
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

Nominal Size	Nominal Pressure (PN)	Body Test Pressure	Max. Steam Working Pressure	Max. Temp.
15mm to 200 mm	16	26 Kg/Cm ²	13 Kg/Cm ²	220°C
250mm to 300 mm	10	17 Kg/Cm ²	8.5 Kg/Cm ²	220°C



DIMENSIONS

Nominal Size	A	B	C	D	E	G	H	J
15 mm (1/2")	130	95	14	2	45	75	90	60
20 mm (3/4")	150	105	16	2	58	75	95	60
25 mm (1")	160	115	16	2	68	80	100	65
32 mm (1 1/4")	180	140	18	2	78	90	105	75
40 mm (1 1/2")	200	150	18	3	88	95	115	82
50 mm (2")	230	165	20	3	102	120	125	95
65 mm (2 1/2")	290	185	20	3	122	125	145	105
80 mm (3")	310	200	22	3	138	135	155	115
100 mm (4")	350	220	24	3	158	145	175	120
125 mm (5")	400	250	26	3	188	205	200	150
150 mm (6")	480	285	26	3	212	220	225	180
200 mm (8")	600	340	30	3	268	275	275	190
250 mm (10")	730	395	28	3	320	350	---	---
300 mm (12")	850	445	28	4	370	380	---	---

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Studs and Nuts	M.S.	IS : 1367
2.	Gasket	C.A.F.	---
3.	Cover	Cast Iron	IBR 86-93 Gr. A
4.	Body	Cast Iron	IBR 86-93 Gr. A
5.	Disc	Cast Iron	IBR 86-93 Gr. A
6.	Disc Ring	S.S.	AISI-410/304
7.	Body Seat Ring	S.S.	AISI-410/304



CAST IRON

STOP-CUM-NON RETURN VALVE

VALVES MADE WITH MAXIMUM PRECISION AND PERFECTION

DESCRIPTION :

'WJ' CAST IRON GLOBE STOP-CUM-NON RETURN VALVE Straight or Right Angle Type. Bolted Bonnet, outside Screw and Yoke Type Rising Stem and Back Seat Arrangement with Renewable SS (AISI-410/AISI-304) Seat and stem Flanged Ends. Flanges of Valves upto 200 mm Sizes are as per DIN-2533, PN-16 Raised Face and flanges of valves above 200 mm size are as per DIN 2532, PN-10 Raised Face.

SALIENT FEATURES :

1. Provision of Back Seat Arrangement for on line Replacement of Gland Packing when valve is full open.
2. Minimum Pressure drop due to stream lined flow throughout the body.
3. High lift to avoid obstruction in the flow way.
4. Sturdy Hand Wheel operation with ample grip and clear from top of Yoke.

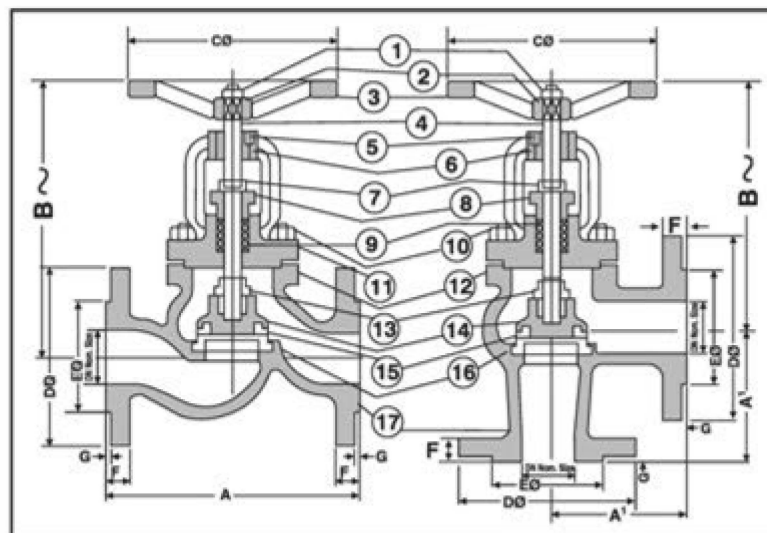
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

Nominal Size	Nominal Pressure (PN)	Body Test Pressure	Max. Steam Working Pressure	Max. Temp.
15mm to 200 mm	16	26 Kg/Cm ²	13 Kg/Cm ²	220°C
250mm to 300 mm	10	17 Kg/Cm ²	8.5 Kg/Cm ²	220°C



DIMENSIONS

Nominal Size	A	A'	B	C	D	E	F	G
DN 15 (1/2")	130	90	155	120	95	45	14	2
DN 20 (3/4")	150	95	160	120	105	58	16	2
DN 25 (1")	160	100	180	140	115	68	16	2
DN 32 (1 1/4")	180	105	210	140	140	78	18	2
DN 40 (1 1/2")	200	115	225	190	150	88	18	3
DN 50 (2")	230	125	255	190	165	102	20	3
DN 65 (2 1/4")	290	145	300	250	185	122	20	3
DN 80 (3")	310	155	320	250	200	138	22	3
DN 100 (4")	350	175	360	300	220	158	24	3
DN 125 (5")	400	200	425	300	250	188	26	3
DN150 (6")	480	225	475	350	285	212	26	3
DN 200 (8")	600	275	550	400	340	268	30	3
DN 250 (10")	730	325	604	450	395	320	28	3
DN 300 (12")	850	375	650	450	445	370	28	4

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Handwheel	Carbon Steel	----
2.	Washer	Carbon Steel	----
3.	Hand Wheel	C.I.	IS : 210 FG 200
4.	Stem	13% Cr. S.S.	AISI-410
5.	Locking Screw	Carbon Steel	-----
6.	Yoke Bush	13% Cr. S.S.	AISI-410
7.	T Head Bolts & Nuts	Carbon Steel	-----
8.	Gland	C.I.	IBR 86 to 93 Gr. A
9.	Packing	Graphited Asbestos	-----
10.	Studs & Nuts	Carbon Steel	-----
11.	Bonnet	C.I.	IBR 86 to 93 Gr. A
12.	Gasket	C.A.F.	IS : 2712
13.	Disc Nut	13% Cr. S.S.	AISI-410
14.	Valve Disc	C.I.	IBR 86 to 93 Gr. A
15.	Disc Facing Ring	13% Cr. S.S.	AISI-410
16.	Body Seat Ring	13% Cr. S.S.	AISI-410
17.	Body	C.I.	IBR 86 to 93 Gr. A



CAST IRON

Y-TYPE STRAINER SCREWED / FLANGED

ELEGANT SMOOTH PERFORMANCE

DESCRIPTION :

'WJ' CAST IRON Y-TYPE STRAINERS are manufactured with S.S. (AISI-304) screen with Screwed Female Ends to BSP threads and Flanged Ends to BS-10 Table 'F'.

These strainers are suitable for 150 PSIG (10.54 Kg/Cm²) Max. Steam Pressure at 428°F (220°C) Temp. and are Tested at 300 PSIG (21.08 Kg/Cm²) Hyd.

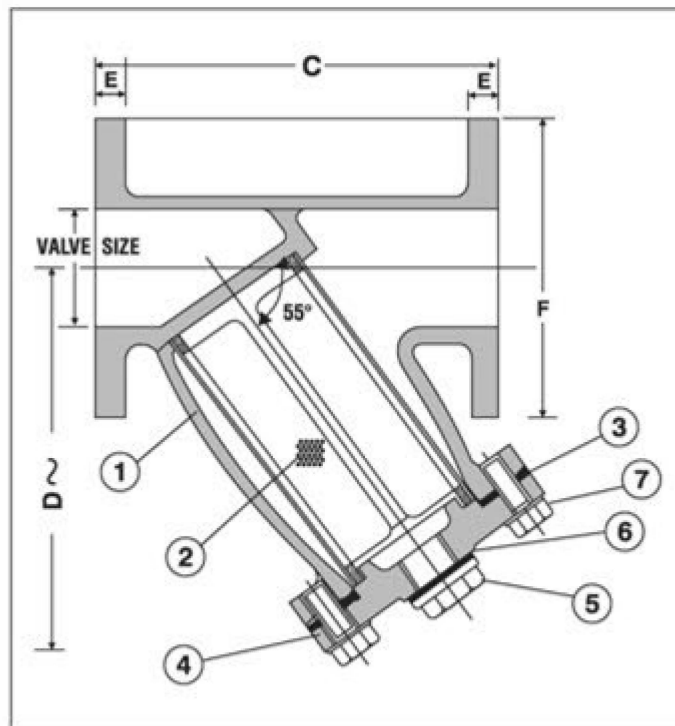
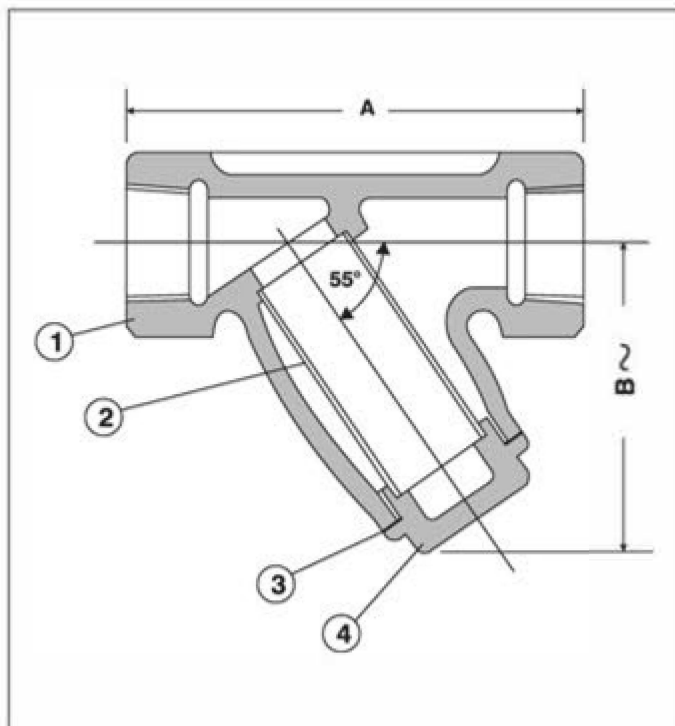
SALIENT FEATURES :

1. Fine finish and smooth contours Reduce Pressure drop in the strainer.
2. Large screening area makes the strainer efficient.
3. Screen is guided in the body.
4. Strainer may be installed in the downward vertical lines with effectiveness equal to horizontal installation.
5. Drain plug is provided in larger sizes to drain off the foreign particles accumulated in the strainer.

TESTING AND CERTIFICATION :

All strainers are Tested at Double the Max. Working Pressure. Each strainer is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



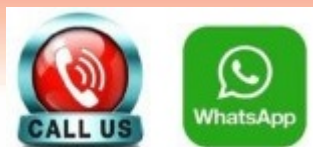


DIMENSIONS

Nominal Size	A	B	C	D	E	F
15 mm (½")	76	68	136.5	90	12.7	95.3
20 mm (¾")	98	72	140	90	12.7	101.6
25 mm (1")	133	90	162	115	12.7	120.7
32 mm (1¼")	175	110	185	143	15.88	133.4
40 mm (1½")	178	130	206	150	15.88	139.7
50 mm (2")	222	158	210	203	19.01	165.1
65 mm (2½")	----	----	248	240	19.01	184.2
80 mm (3")	----	----	270	260	19.01	203.2
100 mm (4")	----	----	381	285	22.2	228.6
125 mm (5")	----	----	416	381	25.4	279.4
150 mm (6")	----	----	451	394	25.4	304.8
200 mm (8")	----	----	522.5	550	38.1	368.5

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Iron	IBR 86 to 93 Gr. A
2.	Strainer	S.S.	AISI-304
3.	Gasket	C.A.F.	----
4.	Cover	Cast Iron	IBR 86 to 93 Gr. A
5.	Plug	Steel	----
6.	Gasket	C.A.F.	----
7.	Studs & Nuts	Steel	----



CAST IRON

ACCESSIBLE

FEED CHECK VALVE

**CHECK VALVE WITH BETTER
ACCESSIBILITY WHILE THE
BOILER IS IN OPERATION**

DESCRIPTION :

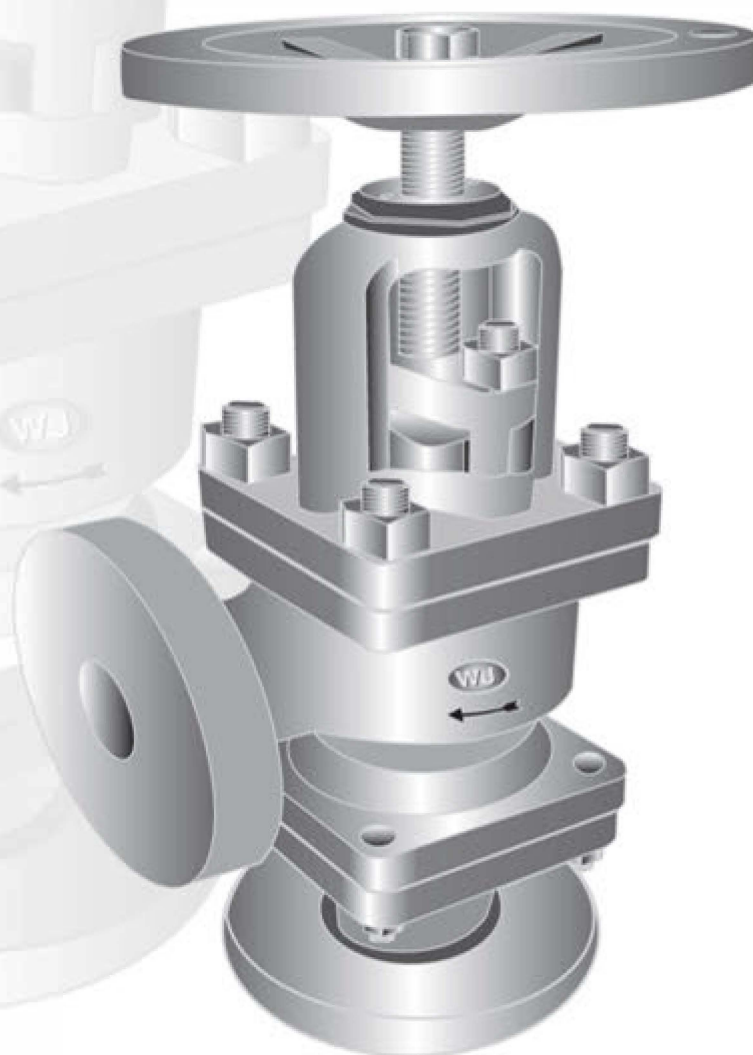
'WJ' CAST IRON ACCESSIBLE FEED CHECK VALVE, out side Screw Yoke Type. Rising Stem, SS (AISI-410) Disc and Stem. Bolted Bonnet. Flanges as per BS-10 Table 'H'. Suitable for Max. 185 PSIG (13 Kg/Cm²) Working Pressure and 428°F (220°C). Temp. Tested to 370 PSIG (26 Kg/Cm²) Hyd.

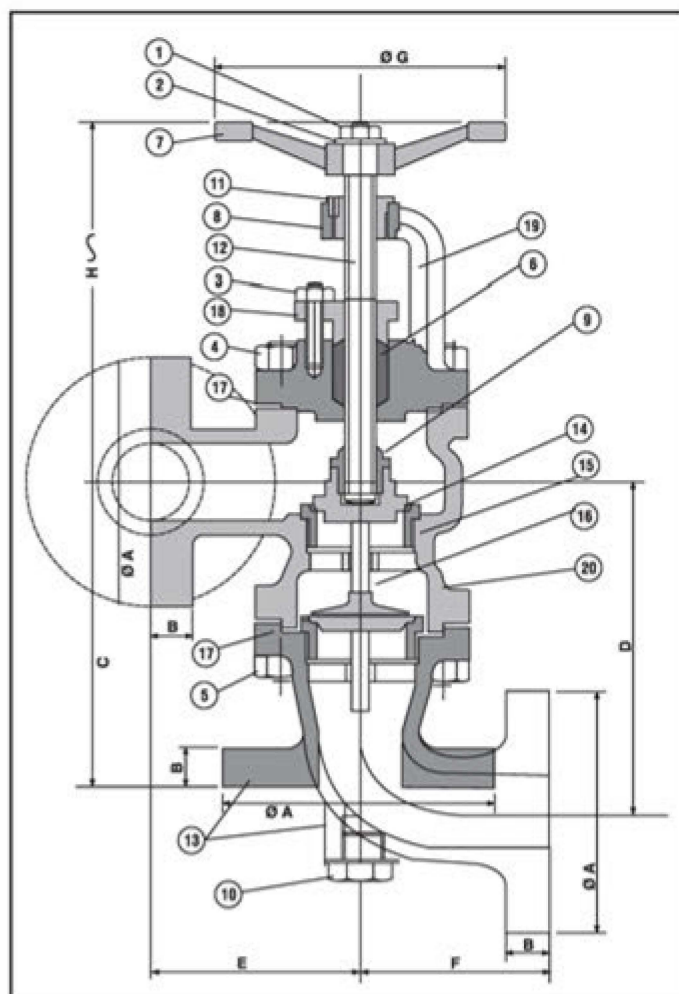
SALIENT FEATURES :

1. Accessible Feed Check Valve consists of two valves, a stop valve operated by a hand wheel and a back pressure check valve.
2. Available with straight or curved inlet.
3. Accessibility of check valve can be examined while the boiler is in operation by closing the stop valve and removing the inlet.
4. 40mm, 50mm and 65mm size accessible feed check valves are also available with inspection branch.

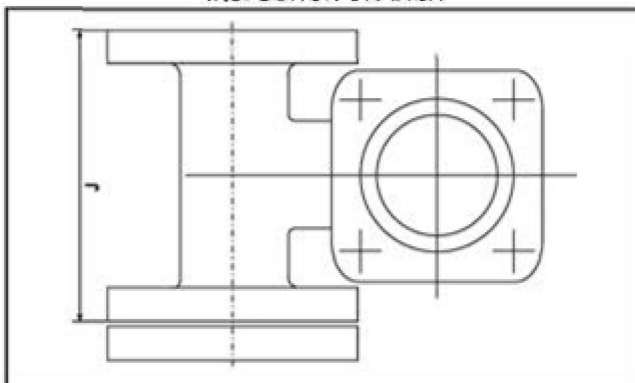
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





INSPECTION BRANCH

DIMENSIONS
WITHOUT INSPECTION BRANCH

Nominal Size	A	B	C	D	E	F	G	H (Approx.)
25mm (1")	120.7	19.1	152.5	159	116	82.6	175	200
32mm (1 1/4")	133.5	22.2	167	167	108	121	175	213
40mm (1 1/2")	139.7	22.2	173	189	114	102	175	220
50mm (2")	165.1	25.4	203	216	127	114	175	240
65mm (2 1/2")	184.2	25.4	238	238	152	127	250	290
80mm (3")	203.2	28.6	238	238	191	152	250	320

DIMENSIONS
WITH INSPECTION BRANCH

Nominal Size	A	B	C	D	E	F	G	H (Approx.)	J
40mm (1 1/2")	139.7	22.2	173	189	102	102	175	220	228
50mm (2")	165	25.4	203	216	124	114	175	240	254
65mm (2 1/2")	184.2	25.4	238	238	140	127	250	290	280

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut	M.S.	----
2.	Washer	M.S.	----
3.	Studs & Nuts	M.S.	----
4.	Studs & Nuts	M.S.	----
5.	Studs & Nuts	M.S.	----
6.	Packing	Graphited Asbestos	----
7.	Hand Wheel	C.I.	IS : 210 FG 200
8.	Yoke Bush	Bronze	IBR-282 (a) IV Gr. B
9.	Check Nut	S.S.	AISI-410
10.	Drain Plug	Bronze	IBR-282 (a) IV Gr. B
11.	Locking Screw	S.S.	AISI-410
12.	Stem	S.S.	AISI-410
13.	Straight/Curved Inlet	C.I.	IBR-86 To 93 Gr. A
14.	Disc	S.S.	AISI-410
15.	Body Seat Ring	S.S.	AISI-410
16.	Check Valve Disc	S.S.	AISI-410
17.	Gasket	Steam Jointing	----
18.	Gland	C.I.	IBR-86 To 93 Gr. A
19.	Bonnet	C.I.	IBR-86 To 93 Gr. A
20.	Body	C.I.	IBR-86 To 93 Gr. A



CAST IRON

BUCKET TYPE STEAM TRAP VERTICAL / HORIZONTAL

**HIGH PERFORMANCE
UNDER DIFFERENT
STEAM PRESSURES**

DESCRIPTION :

'WJ' CAST IRON BUCKET TYPE STEAM TRAP VERTICAL / HORIZONTAL with Brass/S.S. (AISI-304) Bucket having Screwed Female Ends : suitable for Max. Working Pressure of 13 kg/cm² (185 PSIG) and Temperature : 428°F (220°C).

Body Tested to : 26 kg/cm² (370 PSIG) HYD.

TESTING AND CERTIFICATION :

All Traps are Tested Hydrostatically at Double the Max. Working Pressure. Each Trap is Tested on steam line to see the performance of Traps. Each Trap is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.

DISCHARGE CAPACITIES :

Discharge capacities of Steam Traps under different Steam Pressures are given in Kg/hour of hot condensate at Temperature corresponding to the inlet Steam Pressure.

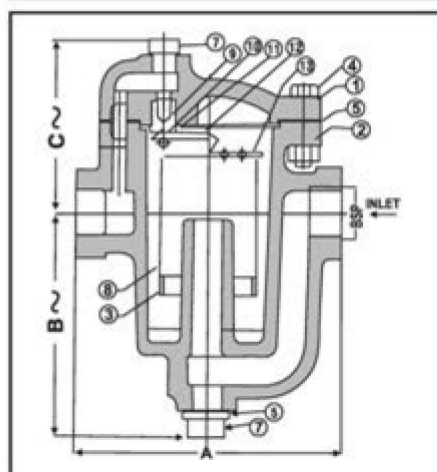
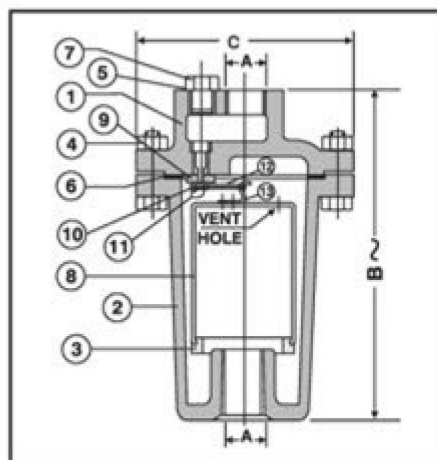
Note : These steam Traps are suitable for Vertical and Horizontal Installation.



HORIZONTAL

VERTICAL

INLET STEAM PRESSURE		CAPACITY IN KILOGRAMS PER HOUR					
Kg/Cm ²	PSIG	½"	¾"	1"	1¼"	1½"	2"
0.70	10	400	850	1575	2600	4000	7800
1.76	25	425	850	1700	2700	4150	9000
3.52	50	380	850	1850	2850	4000	8200
5.27	75	425	1000	1725	2850	4150	8300
7.03	100	390	810	1625	2900	4700	8150
10.54	150	370	680	1575	2600	4300	8350
13	185	380	700	1650	2810	4500	8560



VERTICAL INSTALLATION

DIMENSIONS			
NOMINAL SIZE	A	B (Approx.)	C
15 mm (½")	½" BSP	168	110
20 mm (¾")	¾" BSP	200	138
25 mm (1")	1" BSP	265	187
32 mm (1¼")	1¼" BSP	325	220
40 mm (1½")	1½" BSP	325	220
50 mm (2")	2" BSP	352	240

HORIZONTAL INSTALLATION

DIMENSIONS			
NOMINAL SIZE	A	B	C
25 mm (1")	180	147	115
40 mm (1½")	245	195	140
50 mm (2")	290	260	196

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Cover	Cast Iron	IBR 86 to 93 Gr. A
2.	Body	Cast Iron	IBR 86 to 93 Gr. A
3.	Bucket Ring	Cast Iron	IBR 86 to 93 Gr. A
4.	Nuts & Bolts	M.S.	----
5.	Gasket Washer	Steam Jointing	----
6.	Gasket	Steam Jointing	----
7.	Plug	Bronze	IBR 282 (a) (IV) Gr. B
8.	Bucket	S.S. Sheet	----
9.	Valve Seat	S.S.	AISI-410
10.	Valve Ball	S.S.	AISI-304
11.	Hook Plate	S.S.	AISI-304
12.	Lever	S.S.	AISI-304
13.	Bucket Hook	S.S.	AISI-304



CAST IRON

VERTICAL LIFT CHECK VALVE

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' CAST IRON VERTICAL LIFT CHECK VALVE Bolted Cover, with 13% Cr S.S. (AISI-410) Trim and having Flanged Ends to BS-10 Table 'H' are suitable for (13 Kg/Cm²). Max. Working Pressure and 428°F (220°C) Temp. Tested to (26 Kg/Cm²) Hyd. Pressure.

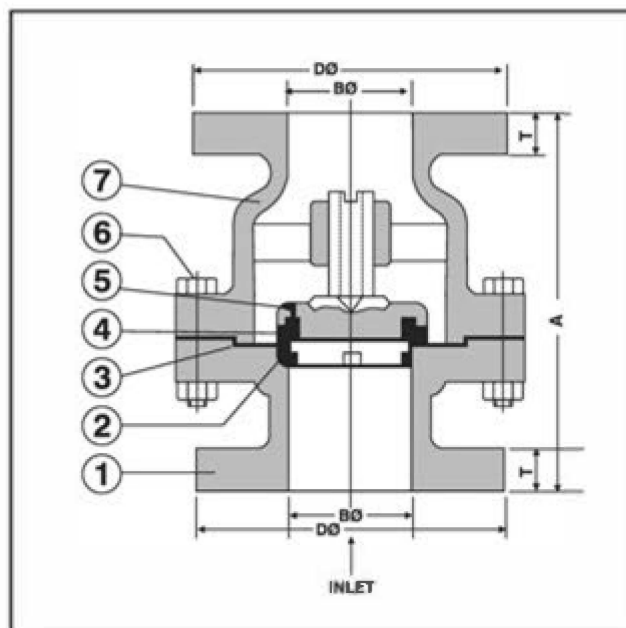
SALIENT FEATURES :

1. Full way area is provided.
2. Valve Disc is guided to give Trouble Free Service.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	A	B	D	T
DN 40 (1½")	175	40	140	22.2
DN 50 (2")	200	50	165	25.4
DN 65 (2½")	225	65	184.5	25.4
DN 80 (3")	250	80	203	28.5
DN 100 (4")	275	100	229	32
DN 125 (5")	340	125	280	35
DN 150 (6")	350	150	305	35
DN 200 (8")	390	200	368.5	38

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Lower Body	C.I.	IBR 86 to 93 Gr. A
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Gasket	C.A.F.	IS : 2712
4.	Valve Disc Facing Ring	13% Cr. S.S.	AISI-410
5.	Valve Disc	C.I.	IBR 86 to 93 Gr. A
6.	Bolts & Nuts	Carbon Steel	----
7.	Upper Body	C.I.	IBR 86 to 93 Gr. A



CAST IRON

MOISTURE SEPARATOR



STOUD & STURDY WORKING

DESCRIPTION :

'WJ' CAST IRON MOISTURE SEPARATORS are Manufactured, with Flanged Ends to BS-10 Table 'H'. These are suitable for Max. Working Pressure of (13 Kg/Cm²) on steam lines. Max. Temp.-220°C (428°F).

SALIENT FEATURES :

Moisture Separators are provided with internal ribs which help to remove the condensate from the steam lines.

TERMS & CONDITIONS :

All the Moisture Separators are Tested at 26 Kg/Cm² Hyd. Pressure. Each Moisture Separator is supplied with IBR Test Certificate in Form III-C, issued by The Director of Boilers, Punjab.





CAST IRON

MOISTURE SEPARATOR



STOUD & STURDY WORKING

DESCRIPTION :

'WJ' CAST IRON MOISTURE SEPARATORS are Manufactured, with Flanged Ends to BS-10 Table 'H'. These are suitable for Max. Working Pressure of (13 Kg/Cm²) on steam lines. Max. Temp.-220°C (428°F).

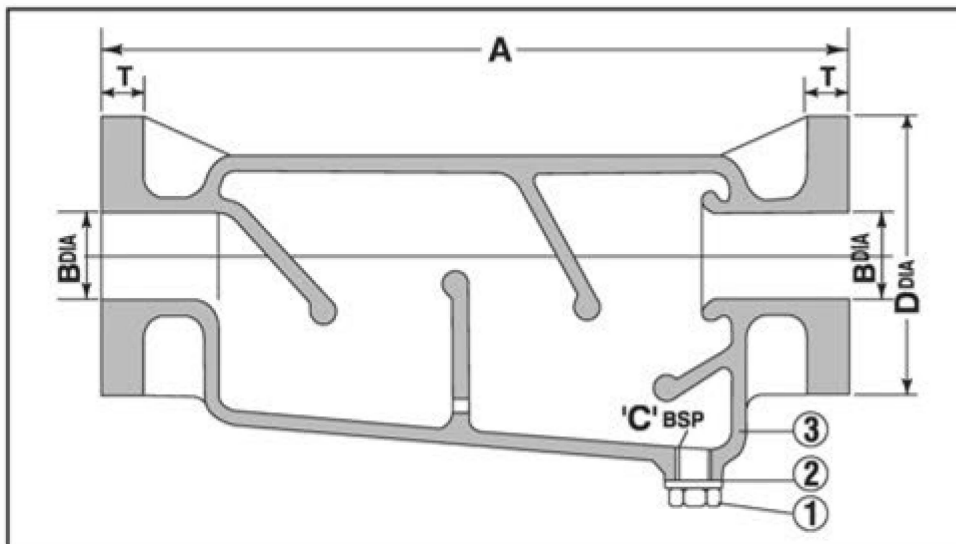
SALIENT FEATURES :

Moisture Separators are provided with internal ribs which help to remove the condensate from the steam lines.

TERMS & CONDITIONS :

All the Moisture Separators are Tested at 26 Kg/Cm² Hyd. Pressure. Each Moisture Separator is supplied with IBR Test Certificate in Form III-C, issued by The Director of Boilers, Punjab.





DIMENSIONS					
NOMINAL SIZE	A	B	C	DØ	T
25 mm (1")	300	25	½" BSP	121	19.1
40 mm (1½")	370	40	½" BSP	140	22.2
50 mm (2")	466	50	½" BSP	165.1	25.4
65 mm (2½")	485	63	1" BSP	184.2	28.6
80 mm (3")	485	76	1" BSP	203.2	28.6
100 mm (4")	696	100	1" BSP	228.6	32

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Drain Plug	C.I.	----
2.	Gasket	Steam Jointing	----
3.	Body	C.I.	IBR 86 to 93 Gr. A



NETA VALVES PVT. LTD.

CAST IRON

SWING CHECK VALVE

SUPER TROUBLE - FREE PERFORMANCE

DESCRIPTION :

'WJ' CAST IRON SWING CHECK VALVE, with 13% Cr. S.S. (AISI-410) Trim, Bolted Bonnet and with Flanged Ends to BS-10 TABLE 'F' are suitable for 150 PSIG (10.54 Kg/Cm²) Max. Pressure at 428°F (220°C). Body Tested to 300 PSIG (21.08 Kg/Cm²) and Seat Tested to 150 PSIG (10.54 Kg/Cm²) Hyd. Pressure.

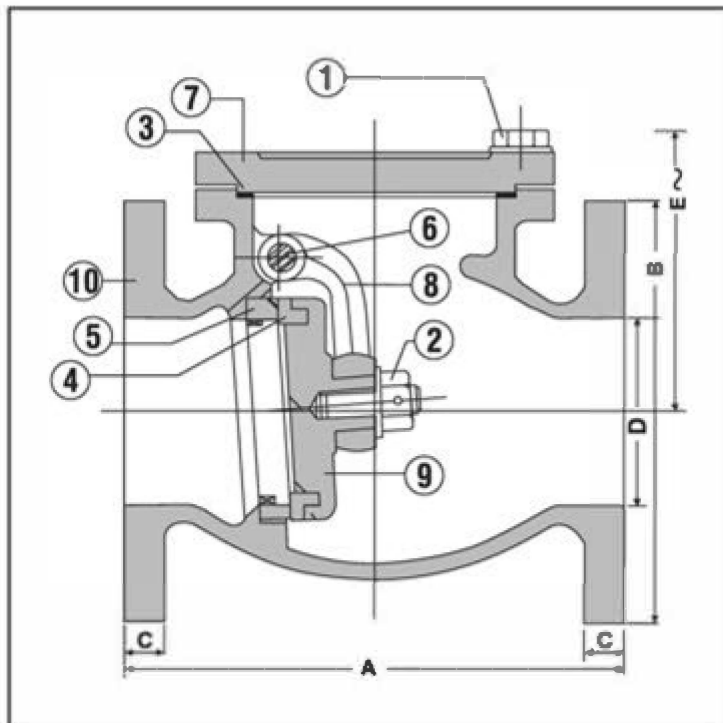
These swing check valves can also be supplied in all Iron or Bronze Trim and with soft seats of Nitrile Rubber & Teflon with Flanges as per BS-10 Table 'D' and ANSI Class-125.

TESTING AND CERTIFICATION :

All Swing Check Valves are Tested at Double the Max. Working Pressure.

If required IBR Test Certificate can also be provided in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS					
Nominal Size	A	B	C	D	E (Approx.)
40 mm (1½")	165	139.7	15.88	38	98
50 mm (2")	203	165.1	19.05	50	118
65 mm (2½")	216	184.15	19.05	65	128
80 mm (3")	241	203.2	19.05	76.2	138
100 mm (4")	292	228.6	22.2	100	175
125 mm (5")	330	279.4	25.4	125	195
150 mm (6")	356	304.8	25.4	150	220

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Studs with Nuts	M.S.	---
2.	Studs with Nuts	M.S.	---
3.	Gasket	Steam Jointing	---
4.	Disc Ring	S.S. / Bronze	AISI-410/IBR 282 (a) (IV) Gr. B
5.	Body Seat Ring	S.S. / Bronze	AISI-410/IBR 282 (a) (IV) Gr. B
6.	Hinge Pin	S.S. / Extruded Brass Rod	AISI-410/IS : 3488-1980
7.	Cover	Cast Iron	IBR 86 to 93 Gr. A / IS-210 FG-200
8.	Hinge	Cast Iron	IBR 86 to 93 Gr. A / IS-210 FG-200
9.	Disc	Cast Iron	IBR 86 to 93 Gr. A / IS-210 FG-200
10.	Body	Cast Iron	IBR 86 to 93 Gr. A / IS-210 FG-200
11.	Side Plug	Bronze / S.S.	IBR 282 (a) (IV) Gr. B / AISI-410



NETA VALVES PVT. LTD.

CAST IRON

SLUICE VALVE

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' CAST IRON SLUICE VALVES Bolted Bonnet. Inside screw and Non Rising Stem with Renewable leaded Tin Bronze working parts and stainless steel stem. Flanged Ends. Hand wheel operated conforming to IS : 14846-2000 PN-10.

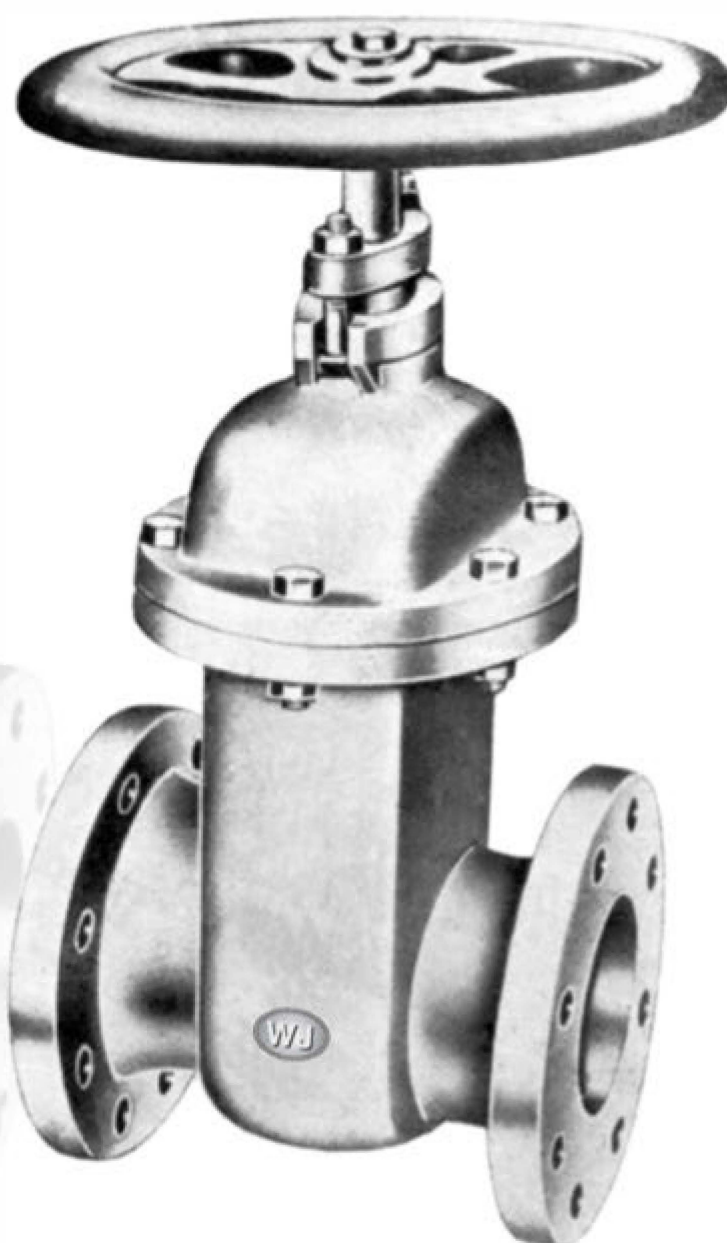
Body Tested to 1.5 MPa and seat Tested to 1.0 MPa Hyd. Pressure.

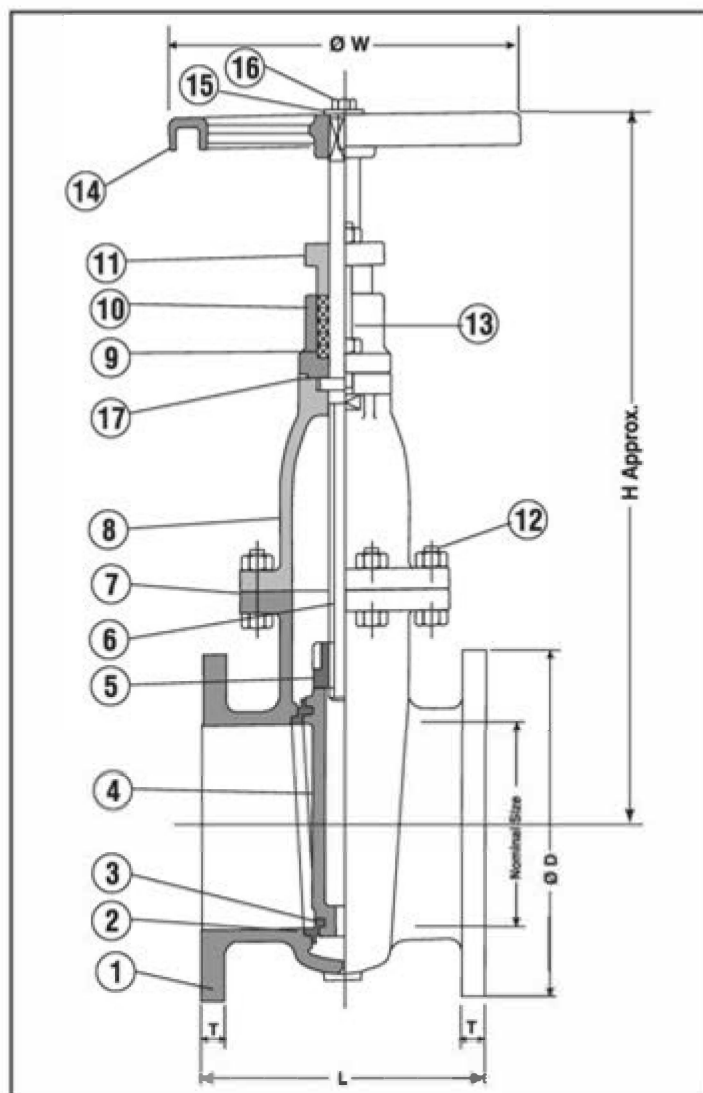
SALIENT FEATURES :

1. Sturdy hand wheel is provided for easy operation of valve.
2. Thrust bridge design is provided upto 150 mm size.
3. Guide and lugs are provided to guide the wedge through its full travel in the body.
4. Stream lined full flow area is provided in the body to minimise pressure drop.
5. Ample depth of stuffing box is provided.

TESTING AND CERTIFICATION :

All Sluice Valves are Tested at the specified Test Pressure. If required, our own Works Test Certificate can be provided.





DIMENSIONS					
Nominal Size	L	H	W	D	T
50 mm (2")	178	321	225	165	16
65 mm (2½")	190	355	225	185	16
80 mm (3")	203	385	225	200	21
100 mm (4")	229	450	320	220	22
125 mm (5")	254	480	320	250	22.5
150 mm (6")	267	530	320	285	23
200 mm (8")	292	700	360	340	24.5
250 mm (10")	330	830	400	395	26
300 mm (12")	356	905	400	445	27.5

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Iron	IS-210 FG-200
2.	Body Seat Ring	Leaded Tin Bronze	IS-318 LTB-2
3.	Wedge Facing Ring	Leaded Tin Bronze	IS-318 LTB-2
4.	Wedge	Cast Iron	IS-210 FG-200
5.	Stem Nut	Leaded Tin Bronze	IS-318 LTB-2
6.	Stem	S.S.	IS-6603
7.	Gasket	C.A.F.	IS-2712
8.	Bonnet	Cast Iron	IS-210 FG-200
9.	Packing	Jute & Hemp	
10.	Stuffing Box	Cast Iron	IS-210 FG-200
11.	Gland	Cast Iron	IS-210 FG-200
12.	Bolts & Nuts	M.S.	
13.	Tee Head Bolts & Nuts	M.S.	
14.	Handwheel	Cast Iron	IS-210 FG-200
15.	Washer	M.S.	
16.	Nut for Handwheel	M.S.	
17.	Gasket for Stuffing Box	C.A.F.	IS-2712



CAST IRON

GATE VALVE

STOUT & STURDY, SMOOTH PERFORMANCE

DESCRIPTION :

'WJ' CAST IRON GATE VALVE, outside Screw Yoke Type, Bolted Bonnet, Solid Wedge with Leaded tin Bronze Facing Rings Flanged Ends. Face to Face of bodies will be as per IS : 14846-2000.

NOTE : These Valves can be supplied with Flanges as per PN-10, PN-16 and Class-125.

Body Test Pressure 24 Kg/Cm²

Seat Test Pressure 16 Kg/Cm²

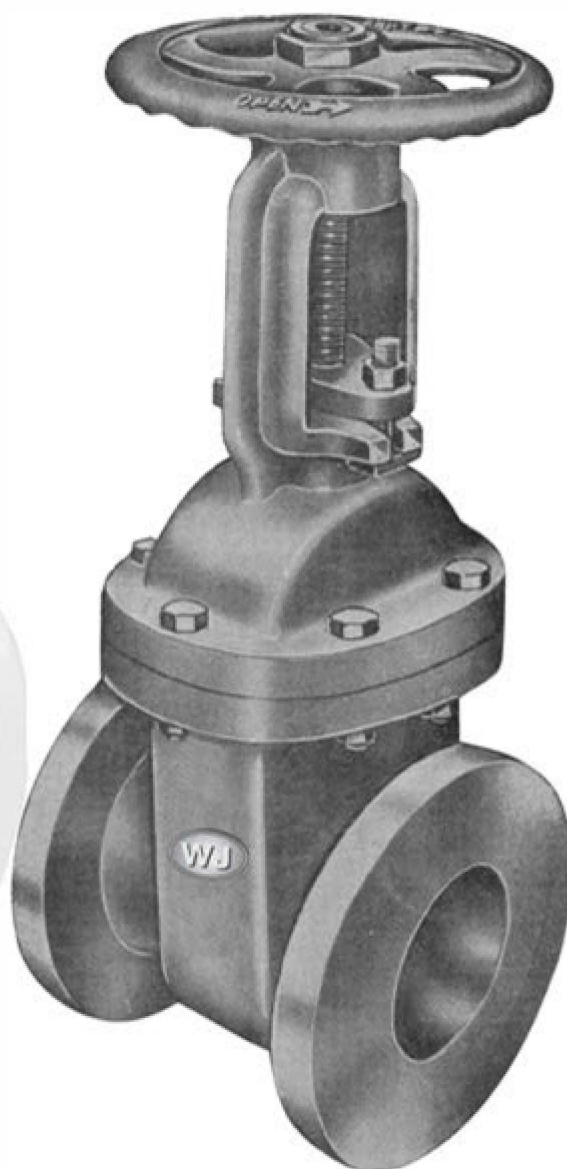
NOTE : Body Seat Rings and Wedge Facing Rings can be supplied in 13% Cr. SS on request.

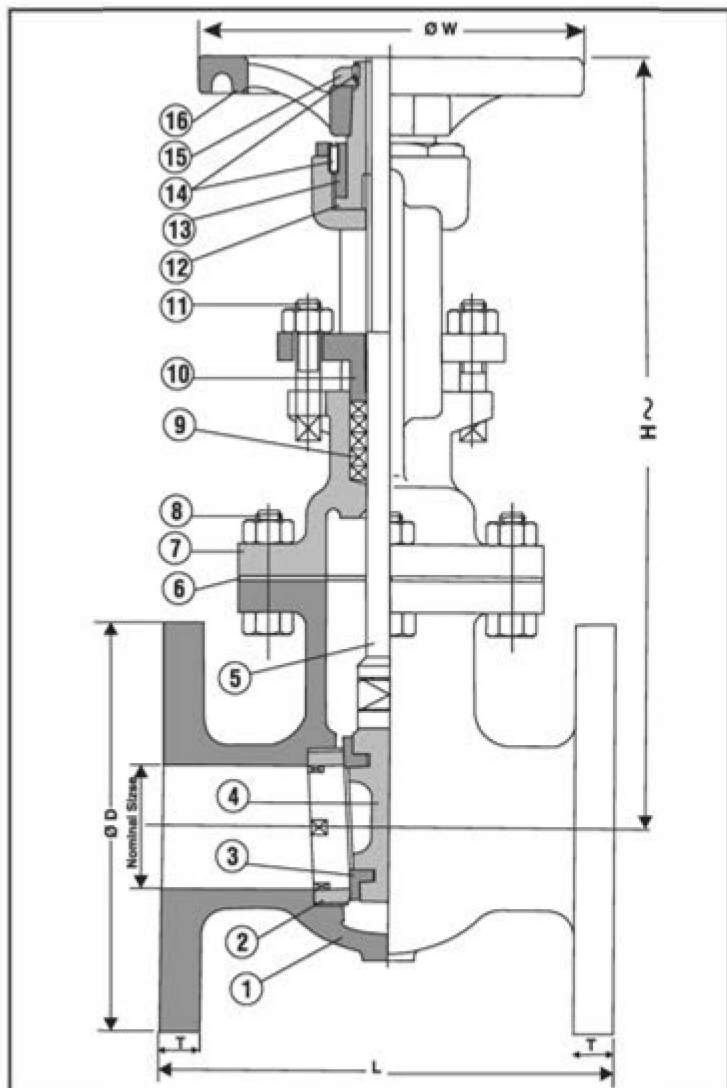
SALIENT FEATURES :

1. Stream lined full flow area is provided in Body to minimum pressure drop.
2. Renewable leaded Tin Bronze Body Seat Ring and disc facing rings are provided.
3. Back Seat Provision is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
4. Ample depth of stuffing box is provided.
5. Sturdy hand wheel is provided for easy operation of the valve.

TESTING AND CERTIFICATION :

All Valves are Tested Hydrostatically at the specified Test Pressure. Our own works Test Certificate can be supplied on request.





DIMENSIONS					
Nominal Size	L	H	W	D	T
50 mm (2")	178	370	200	165	20
65 mm (2½")	190	400	200	185	20
80 mm (3")	203	440	250	200	22
100 mm (4")	229	560	250	220	24
125 mm (5")	254	650	300	250	26
150 mm (6")	267	705	300	285	26
200 mm (8")	292	880	350	340	30
250 mm (10")	330	970	400	405	32
300 mm (12")	356	1120	400	460	32

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.I.	IS-210 FG-200
2.	Body Seat Ring	G.M.	IS-318 LTB-2
3.	Wedge Facing Ring	G.M.	IS-318 LTB-2
4.	Wedge	C.I.	IS-210 FG-200
5.	Stem	S.S.	AISI-410
6.	Gasket	C.A.F.	-----
7.	Bonnet	C.I.	IS-210 FG-200
8.	Bolts and Nuts	M.S.	-----
9.	Packing	Graphited Asbestos	-----
10.	Gland	C.I.	IS-210 FG-200
11.	Tee Head Bolts & Nuts	M.S.	-----
12.	Yoke Sleeve	S.S.	AISI-410
13.	Yoke Sleeve Retaining Nut	G.M.	IS-318 LTB-2
14.	Locking Screw	M.S.	-----
15.	Hand Wheel Nut	G.M.	IS-318 LTB-2
16.	Hand Wheel	M.I.	-----



CAST IRON

BUTTERFLY VALVE

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' CAST IRON BUTTERFLY VALVES. Wafer Type (Without Lugs) with Nitrile Rubber Lined Sleeve are manufactured with Malleable Iron or Stainless Steel Seat and Stainless Steel Spindle.

Max. Temp. Nitrile Rubber-70°C, EPDM-90°C.

NOTE :

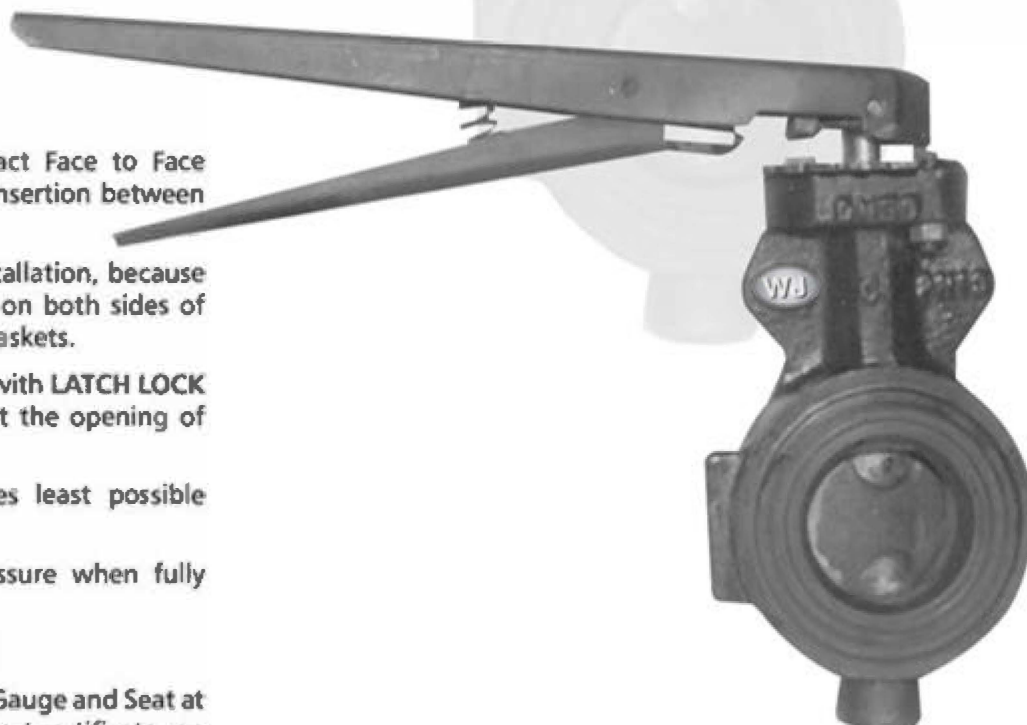
EPDM Sleeve can be provided on Request.

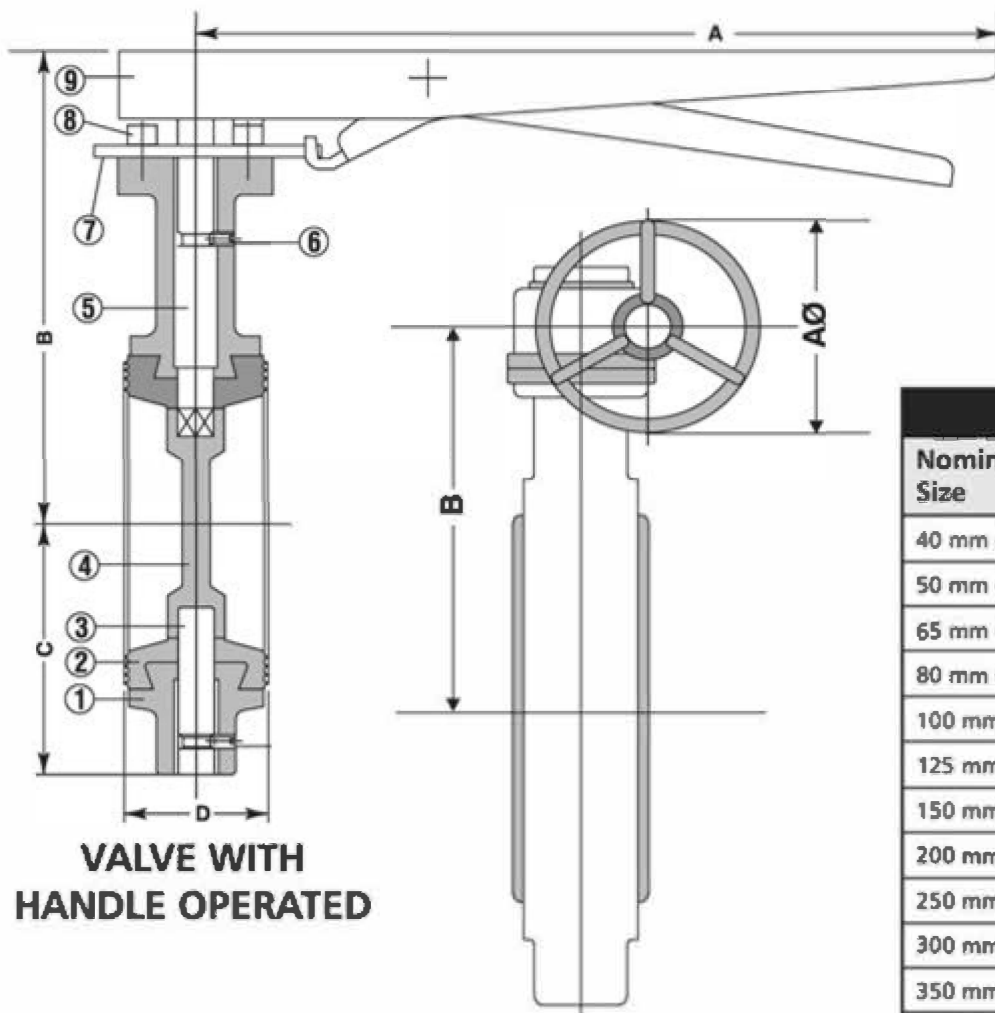
SALIENT FEATURES :

1. Butterfly Valves are of compact Face to Face Distance and are suitable for insertion between Pipe Flanges.
2. No Gaskets are needed for installation, because Rubber Sleeves Projecting out on both sides of the Body serve the purpose of Gaskets.
3. Sturdy construction of handle with LATCH LOCK Arrangement enables to adjust the opening of Seat in any position.
4. Full Opening ($87^{\circ} \pm 3^{\circ}$) gives least possible Pressure Drop.
5. Perfectly Leaktight under pressure when fully closed.

TESTING AND CERTIFICATION :

Each Valve Body is Tested at 15 Bar Gauge and Seat at 11 Bar Gauge Hyd. Our own works test certificate can be furnished with each valve.





**VALVE WITH
HANDLE OPERATED**

**Size : 300mm to 500mm
VALVE : WITH GEAR UNIT**

DIMENSIONS				
Nominal Size	A	B	C	D
40 mm (1½")	270	135	60	33
50 mm (2")	270	140	63	43
65 mm (2½")	270	150	76	46
80 mm (3")	270	155	83	46
100 mm (4")	270	175	105	52
125 mm (5")	270	200	120	56
150 mm (6")	270	210	135	56
200 mm (8")	350	310	165	60
250 mm (10")	360	320	220	68
300 mm (12")	250	345	260	78
350 mm (14")	300	415	290	92
400 mm (16")	300	435	320	102
500 mm (20")	300	520	415	127

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.I.	IS : 210 FG 200
2.	Body Liner	Nitrile Rubber	----
3.	Lower Stem	S.S.	AISI-410
4.	Disc	M.I. / S.S.	IS : 210 FG 200 / AISI-410
5.	Upper Stem	S.S.	AISI-410
6.	Grub Screw	M.S.	----
7.	Cover Plate	M.S. / C.I.	----
8.	Bolts & Nuts	M.S.	----
9.	Handle	M.S. / M.I.	----



NETA VALVES PVT. LTD.

CAST IRON

WAFER TYPE

CHECK VALVE

EFFICIENT PERFORMANCE

DESCRIPTION :

'WJ' CAST IRON WAFER TYPE CHECK VALVE Body
Seat Cast Iron and Seat Ring Nitrile Rubber Lined.

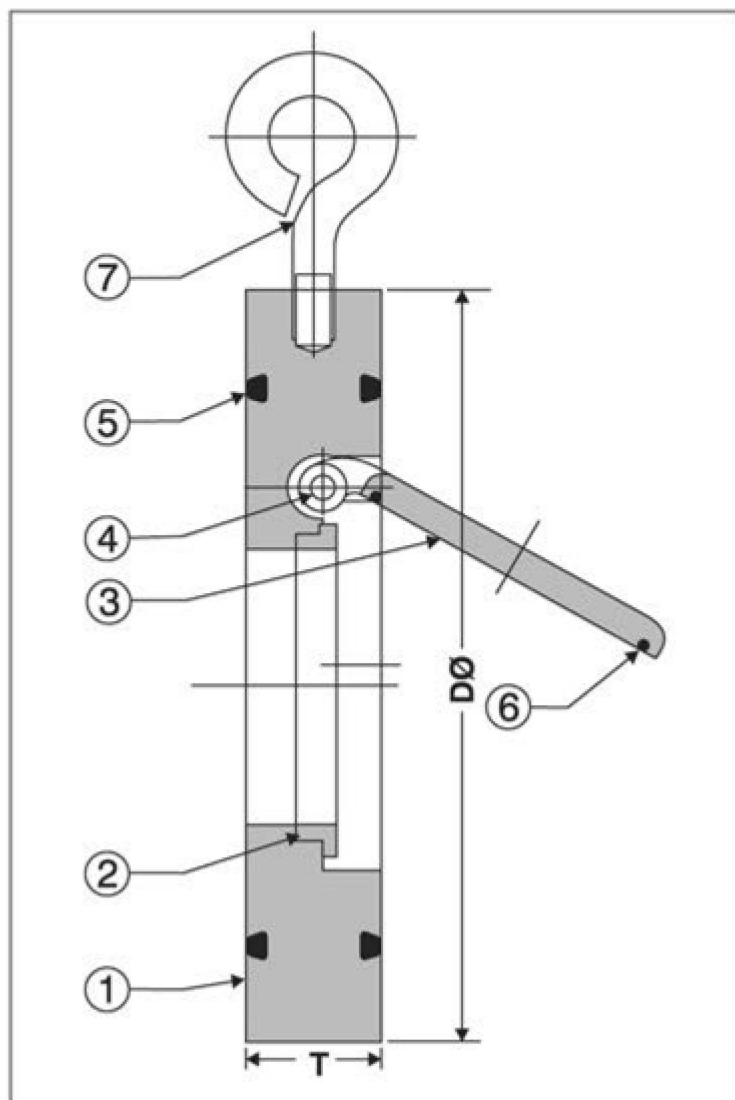
Body Test Pressure : 15 Bar Gauge (Hyd.)

Seat Test Pressure : 11 Bar Gauge (Hyd.)

SALIENT FEATURES :

1. Suitable for Horizontal and Vertical Installation.
2. Shorter over all Length Requires Minimum Space.
3. Low Pressure Drop through the Valve.
4. Easy to Install.
5. Has Less Weight.





DIMENSIONS		
Nominal Size	D	T
40 mm (1½")	102	22
50 mm (2")	107	22
65 mm (2½")	128	22
80 mm (3")	142	25
100 mm (4")	160	25
125 mm (5")	---	---
150 mm (6")	220	30
200 mm (8")	257	30
250 mm (10")	---	---
300 mm (12")	---	---

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Iron	IS : 210 FG 200
2.	Body Seat Ring	Nitrile Rubber	----
3.	Valve Disc.	Cast Iron	IS : 210 FG 200
4.	Pin	S.S.	AISI-410
5.	"O" Ring	Nitrile/Neoprene/EPDM	----
6.	"O" Ring	Nitrile/Neoprene/EPDM	----
7.	Eye - Bolt	M.S.	----



NETA VALVES PVT. LTD.

CAST STEEL

PILOT CONTROLLED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE

CONFIRM TO HIGH QUALITY & LONG LIFE

DESCRIPTION :

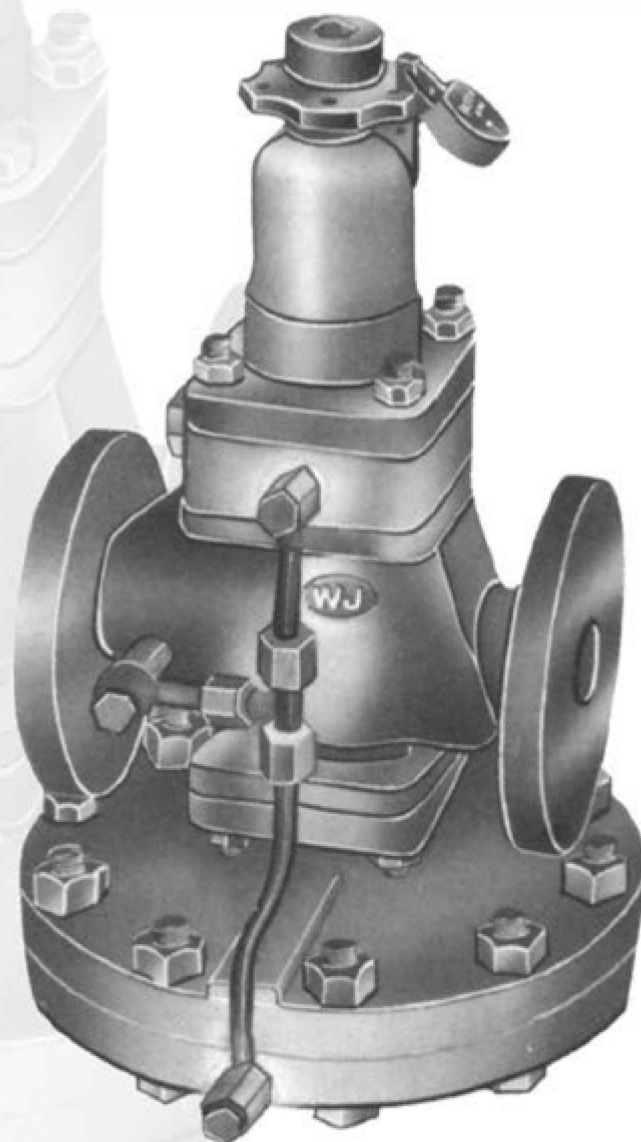
'WJ' CAST STEEL PILOT CONTROLLED METALLIC DIAPHRAGM TYPE PRESSURE REDUCING VALVE with Flanged Ends to BS-10 Table 'J' are suitable for 350 psig (24.6 kg/Cm²) Max. Working Pressure at 425°C Temp. (800°F) and are Tested to 700 psig (49.2 Kg/Cm²) Hyd. Pressure. These Valves are available in three reduced pressure ranges of 5/60, 20/80 and 40/125 on the down stream side.

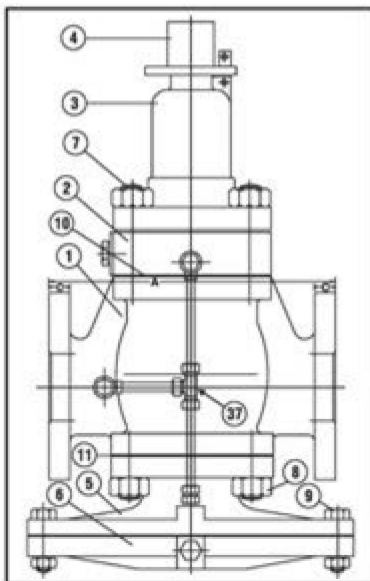
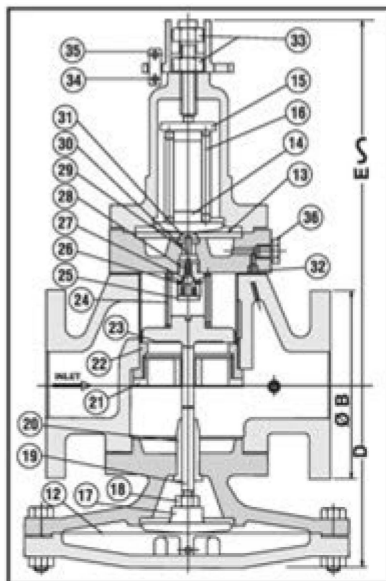
INSTRUCTIONS FOR INSTALLATION :

1. The Valves should be installed in a horizontal pipe line.
2. Stop valves should be installed at inlet & outlet sides of reducing valve.
3. A safety valve should be installed on the down stream side of reducing valve.
4. A steam trap & a strainer should be installed on the upstream side just before the reducing valve.
5. Clean all scale and jointing material from the pipe line before installing the reducing valve.

TESTING AND CERTIFICATION :

All Reducing Valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E
25mm (1")	181	120.7	19.05	135	220
40mm (1½")	225	140.0	22.2	187	338
50mm (2")	260	165.1	25.4	168	320
65mm (2½")	292	184.5	25.4	180	360
80mm (3")	325	203.2	31.8	212	384

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.S.	IBR 73 To 80
2.	Bonnet	C.S.	IBR 73 To 80
3.	Spring Chamber	C.I.	IBR-86 To 93 Gr. A
4.	Locking Guard	C.I.	IBR-86 To 93 Gr. A
5.	Diaphragm Chamber	C.S.	IBR 73 To 80
6.	Bottom Diaphragm Chamber Cover	C.S.	IBR 73 To 80
7.	Studs with Nuts	M.S.	-----
8.	Studs with Nuts	M.S.	-----
9.	Bolts with Nuts	M.S.	-----
10.	Gasket	C.A.F.	IS - 2712
11.	Gasket	C.A.F.	IS - 2712
12.	Lower Diaphragm	S.S.	AISI-304
13.	Upper Diaphragm	S.S.	AISI-304
14.	Lower Spring Disc	S.S.	AISI-410
15.	Upper Spring Disc	S.S.	AISI-410
16.	Spring	Carbon Steel	IBR-307-314
17.	Diaphragm Disc	Bronze	IBR-282 (a) IV Gr. B
18.	Locking Nut	M.S.	-----
19.	Extension Stem	S.S.	AISI-410
20.	Guide Sleeve	Bronze	IBR-282 (a) IV Gr. B
21.	Seat Ring Guide	Bronze	IBR-282 (a) IV Gr. B
22.	Body Seat Ring	S.S.	AISI-410
23.	Valve Disc	S.S.	AISI-410
24.	Disc Spring	S.S.	AISI-302
25.	Pilot Nut	Extruded Brass Rod	-----
26.	Pilot Spring	S.S.	AISI-302
27.	Pilot Ball	S.S.	AISI-304
28.	Pilot Body	S.S.	AISI-410
29.	Pilot Stem	S.S.	AISI-410
30.	Bush	S.S.	AISI-410
31.	Pilot Stem Cap	Bronze	IBR-282 (a) IV Gr. B
32.	Nipple	S.S.	AISI-410
33.	Spring Adjusting Screw	M.S.	-----
34.	Pin	M.S.	-----
35.	Locking Lever	M.S.	-----
36.	Side Plug with Copper Washer	Bronze	IBR-282 (a) IV Gr. B
37.	Pipe Assembly	Copper	IBR-282 (a) IV Gr. B



NETA VALVES PVT. LTD.

CAPACITIES OF 'WJ' PRESSURE REDUCING VALVES FOR STEAM IN Kg. PER HOUR

SET PRESSURE Kg. / Cm ² g	OUTLET PRESSURE Kg. / Cm ² g	VALVE SIZE				
		25 mm (1")	40 mm (1½")	50 mm (2")	65 mm (2½")	80 mm (3")
2	0.75	190	520	920	1360	2000
4	1.5	300	820	1470	2150	3100
	2.75	275	740	1290	1950	2800
6	2.0	385	1020	1850	2720	3900
	3.5	350	920	1650	2420	3530
7	3.5	490	1275	2275	3365	5000
	4	475	1230	2190	3280	4790
	6	375	980	1750	2560	3740
9	4	600	1590	2820	4140	6140
	6	555	1485	2620	3840	5650
	7	465	1230	2180	3180	4770
10	5	710	1800	3250	4950	7000
	7	650	1720	3035	4520	6550
	9	500	1300	2550	3450	4950
13	6	850	2210	3900	5720	8230
	7	810	2180	3760	5720	8000
	9	715	1920	3400	5050	7230
	10	550	1465	2610	3840	5480
15	7	920	2380	4340	6380	9565
	9	880	2280	4100	5920	8650
	10	800	2140	3730	5460	7960
17.58	8	1130	3050	5360	7730	11370
	10	1100	2910	5230	7500	11140



CAST STEEL SINGLE POST FULL LIFT SAFETY VALVE DISCHARGE CAPACITY FOR SATURATED STEAM (Kg/hr.) AT 5% OVER PRESSURE CONSTANT 'C' = 0.50

Size of Valves	Orifice Dia	SET PRESSURE (Kg. / Cm ²)					
		3.5	7.00	10.54	13	15	17.58
25 x 40 mm	19.00 mm	600	1160	1650	2030	2300	2680
40 x 50 mm	25.00 mm	1135	2015	2910	3530	4035	4680
50 x 80 mm	32.50 mm	1915	3410	4925	5975	6830	7920
65 x 90 mm	40.00 mm	2910	5175	7466	9055	10345	12010
80 x 100 mm	48.50 mm	4290	7620	10990	13320	15215	17660
100 x 150 mm	72.00 mm	9490	16830	24250	29400	33600	39000
150 x 200 mm	115.00 mm	23820	43250	61190	74270	84800	98580



NETA VALVES PVT. LTD.

CAST STEEL

SPRING LOADED SAFETY VALVE FLANGED TABLE 'J' / 'D'

EFFICIENT PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL SPRING LOADED SAFETY VALVE with 13% Cr. Stainless Steel (AISI-410) Seat and stem are manufactured in Single Post Full Lift Design. These Safety Valves are set at :
Max. Pressure of 250 psig (17.58 Kg/Cm²).
Max. Temp. 800°F (425°C).
Inlet Flange to BS : 10 Table (J).
Outlet Flange to BS : 10 Table (D).

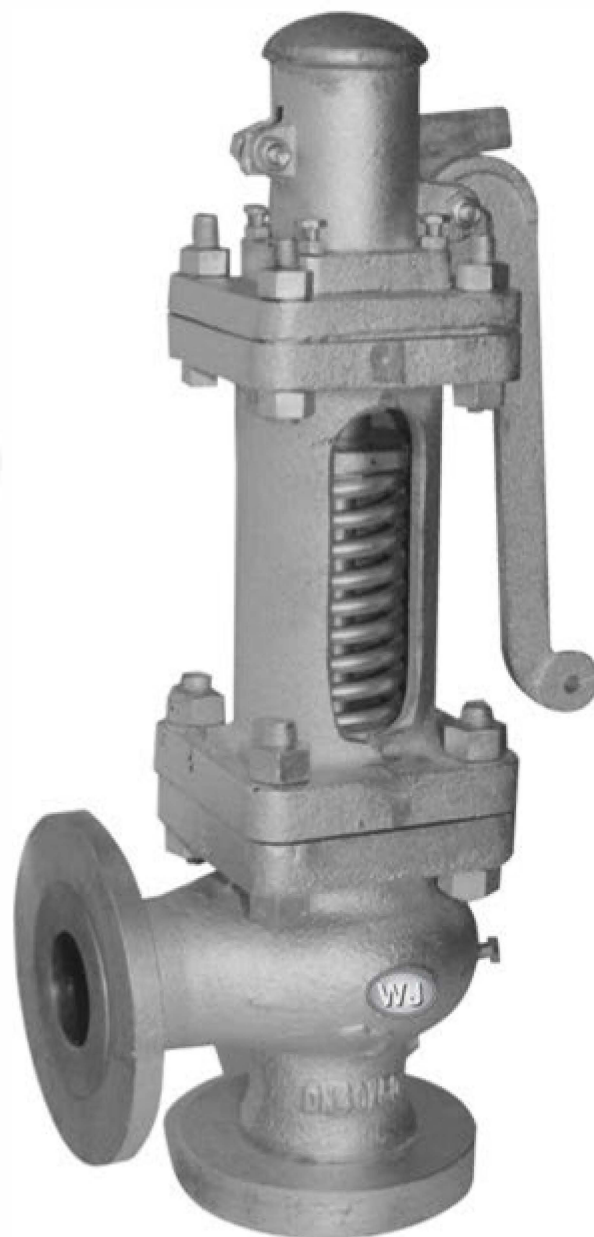
SALIENT FEATURES :

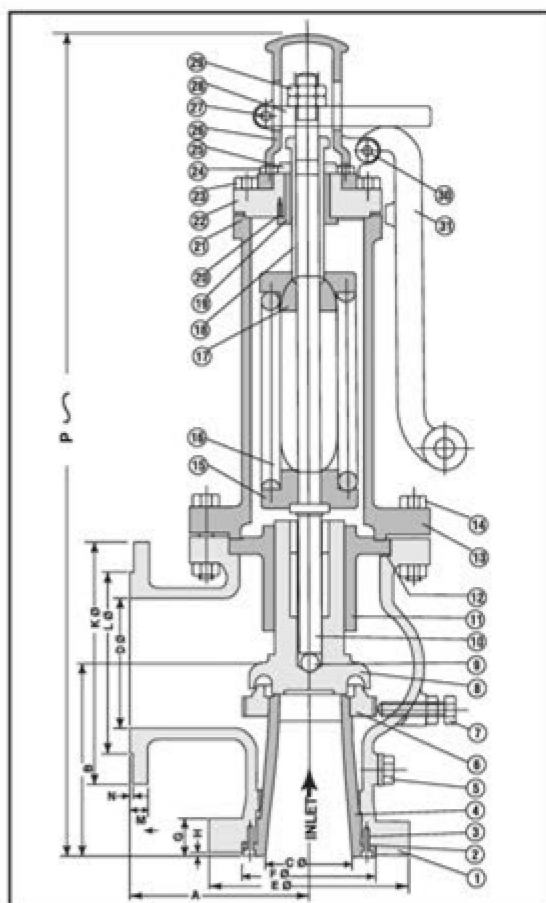
1. These Safety Valves are designed in such that instantaneous full lift of the seat is achieved.
2. Each Safety Valve is provided with an easing lever.
3. To avoid unauthorised alteration to the Set Pressure the adjusting screw and check nut are consealed by a cap which is attached to the Valve spindle by fork and pin.

TESTING AND CERTIFICATION :

All Safety Valve Bodies are Tested at 500 psig (35.15 Kg/Cm²) Hyd. All Valves are set at Max. Steam Pressure of 250 psig (17.58 Kg/Cm²).

Each Valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



**DIMENSIONS**

Valve Size	A	B	C	D
25 x 40	100	95	26	40
40 x 50	130	110	40	50
50 x 80	140	130	50	80
65 x 90	155	160	65	90
80 x 100	200	190	80	100
100 x 150	205	220	100	150
150 x 200	235	240	150	200

INLET FLANGE TABLE (J)

Valve Size	E	F	G	H
25 x 40	121	63.5	21.5	1.6
40 x 50	140	82.5	23.5	1.6
50 x 80	165.1	101.6	28.5	1.6
65 x 90	184.2	114.5	28.5	1.6
80 x 100	203	127	32	1.6
100 x 150	228.6	152	38	1.6
150 x 200	305	210	38.1	1.6

OUTLET FLANGE TABLE (D)

Valve Size	K	L	M	N	P
25 x 40	133.5	82.5	14.5	1.6	432
40 x 50	152.5	92	14.5	1.6	515
50 x 80	184.2	127	14.5	1.6	580
65 x 90	203.2	140	14.5	1.6	675
80 x 100	216	152	18	1.6	855
100 x 150	279.4	209.5	18	1.6	1030
150 x 200	336.6	260.5	19.5	1.6	1040

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.S.	IBR 73 to 80
2.	Gasket	C.A.F.	IS-2712
3.	Allen Key Bolt	Steel	----
4.	Orifice Nozzle	13% Cr. S.S.	AISI-410
5.	Side Plug	Bronze	IBR-282 (a) (IV) Gr. B
6.	Regulating Ring	Bronze	IBR-282 (a) (IV) Gr. B
7.	Locking Screw	Extruded Brass Rod	----
8.	Valve Disc	13% Cr. S.S.	AISI-410
9.	Ball	S.S.	AISI-304
10.	Stem	S.S.	AISI-410
11.	Valve Disc Retainer	S.S.	AISI-410
12.	Gasket	C.A.F.	IS-2712
13.	Chamber	C.I.	IBR-86 To 93 Gr. A
14.	Bolts & Nuts	Carbon Steel	----
15.	Lower Spring Disc	C.I.	IBR-86 To 93 Gr. A
16.	Spring	Carbon Steel	IBR-307-314
17.	Upper Spring Disc	C.I.	IBR-86 To 93 Gr. A
18.	Spring Adjusting Screw	Bronze	IBR-282 (a) IV Gr. B
19.	Bush	Bronze	IBR-282 (a) IV Gr. B
20.	Locking Screw	M.S.	----
21.	Gasket	C.A.F.	IS-2712
22.	Cover Flange	C.I.	IBR-86 To 93 Gr. A
23.	Bolts & Nuts for Cover Flange	Carbon Steel	----
24.	Bolts for Housing Cover	M.S.	----
25.	Check Nut	Bronze	IBR-282 (a) IV Gr. B
26.	Housing Cover	C.I.	IBR-86 To 93 Gr. A
27.	Pin for Fork	S.S.	AISI-410
28.	Fork	M.S.	----
29.	Lock Nut	Bronze	IBR-282 (a) IV Gr. B
30.	Pin for Easing Lever	S.S.	AISI-410
31.	Easing Lever	M.I.	----



NETA VALVES PVT. LTD.

CAST STEEL

SPRING LOADED SAFETY VALVE FLANGED CL-300 / CL-150

EFFICIENT PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL SPRING LOADED SAFETY VALVE with 13% Cr. Stainless Steel (AISI-410) Seat and stem are manufactured in Single Post Full Lift Design. These Safety Valves are set at :

Max. Pressure of 250 psig (17.58 Kg/Cm²).

Max. Temp. 800°F (425°C).

Inlet Flange as per ASME-B16.5 CL-300.

Outlet Flange as per ASME-B16.5 CL-150.

SALIENT FEATURES :

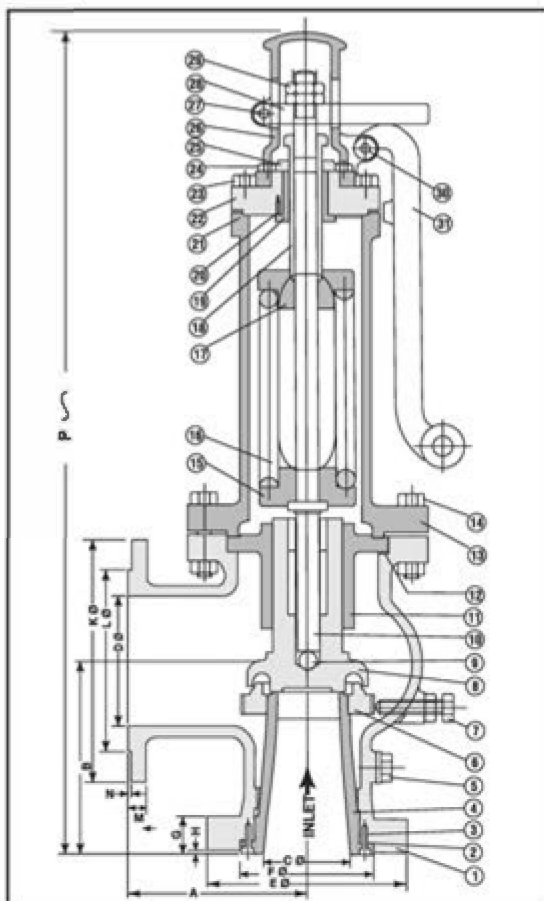
1. These Safety Valves are designed in such a way that instantaneous full lift of the seat is achieved.
2. Each Safety Valve is provided with an easing lever.
3. To avoid unauthorised alteration to the Set Pressure the adjusting screw and check nut are consealed by a cap which is attached to the Valve spindle by fork and pin.

TESTING AND CERTIFICATION :

All Safety Valve Bodies are Tested at 500 psig (35.15 Kg/Cm²) Hyd. All Valves are set at Max. Steam Pressure of 250 psig (17.58 Kg/Cm²).

Each Valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



**DIMENSIONS**

Valve Size	A	B	ØC	ØD	~P
25 x 50	100	95	26	40	432
40 x 50	130	110	40	50	515
50 x 80	140	130	50	80	580
65 x 90	155	160	65	90	675
80 x 100	200	190	80	100	855
100 x 150	205	220	100	150	1030
150 x 200	235	240	150	200	1040

INLET FLANGE AS PER ASME B16.5 CL-300

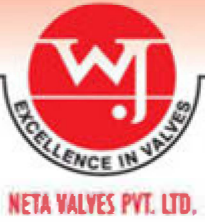
Valve Size	ØE	ØF	G	H
25 x 40	125	63	17.9	2
40 x 50	155	82.5	21.1	2
50 x 80	165	101.6	22.7	2
65 x 90	190	114.5	25.9	2
80 x 100	210	127	29	2
100 x 150	255	152	32.2	2
150 x 200	320	210	37	2

OUTLET FLANGE AS PER ASME B16.5 CL-150

Valve Size	ØK	ØL	M	N
25 x 40	125	73	14.7	2
40 x 50	150	92.1	16.3	2
50 x 80	190	127	19.5	2
65 x 90	215	139.7	21.1	2
80 x 100	230	157.2	24.3	2
100 x 150	280	215.9	25.9	2
150 x 200	345	269.8	29	2

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.S.	IBR 73 to 80
2.	Gasket	C.A.F.	IS-2712
3.	Allen Key Bolt	Steel	----
4.	Orifice Nozzle	13% Cr. S.S.	AISI-410
5.	Side Plug	Bronze	IBR-282 (a) (IV) Gr. B
6.	Regulating Ring	Bronze	IBR-282 (a) (IV) Gr. B
7.	Locking Screw	Extruded Brass Rod	----
8.	Valve Disc	13% Cr. S.S.	AISI-410
9.	Ball	S.S.	AISI-304
10.	Stem	S.S.	AISI-410
11.	Valve Disc Retainer	S.S.	AISI-410
12.	Gasket	C.A.F.	IS-2712
13.	Chamber	C.I.	IBR-86 To 93 Gr. A
14.	Bolts & Nuts	Carbon Steel	----
15.	Lower Spring Disc	C.I.	IBR-86 To 93 Gr. A
16.	Spring	Carbon Steel	IBR-307-314
17.	Upper Spring Disc	C.I.	IBR-86 To 93 Gr. A
18.	Spring Adjusting Screw	Bronze	IBR-282 (a) IV Gr. B
19.	Bush	Bronze	IBR-282 (a) IV Gr. B
20.	Locking Screw	M.S.	----
21.	Gasket	C.A.F.	IS-2712
22.	Cover Flange	C.I.	IBR-86 To 93 Gr. A
23.	Bolts & Nuts for Cover Flange	Carbon Steel	----
24.	Bolts for Housing Cover	M.S.	----
25.	Check Nut	Bronze	IBR-282 (a) IV Gr. B
26.	Housing Cover	C.I.	IBR-86 To 93 Gr. A
27.	Pin for Fork	S.S.	AISI-410
28.	Fork	M.S.	----
29.	Lock Nut	Bronze	IBR-282 (a) IV Gr. B
30.	Pin for Easing Lever	S.S.	AISI-410
31.	Easing Lever	M.I.	----





**CAST STEEL SINGLE POST FULL LIFT SAFETY VALVE DISCHARGE
CAPACITY FOR SATURATED STEAM (Kg/hr.) AT 5% OVER PRESSURE
CONSTANT 'C' = 0.50**

Size of Valves	Orifice Dia	SET PRESSURE (Kg. / Cm ²)					
		3.5	7.00	10.54	13	15	17.58
25 x 50 mm	19.00 mm	600	1160	1650	2030	2300	2680
40 x 65 mm	25.00 mm	1135	2015	2910	3530	4035	4680
40 x 80 mm	32.50 mm	1915	3410	4925	5975	6830	7920
50 x 100 mm	40.00 mm	2910	5175	7466	9055	10345	12010



CAST STEEL

SPRING LOADED SAFETY VALVE FLANGED CL-300 / CL-150

EFFICIENT PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL SPRING LOADED SAFETY VALVE with 13% Cr. Stainless Steel (AISI-410) Seat and stem are manufactured in Single Post Full Lift Design. These Safety Valves are set at Max. Pressure of 250 psig (17.58 Kg/Cm²).
Max Temp. 800°F (425°C).
Inlet Flange as per ASME-B16.5 CL-300.
Outlet Flange as per ASME-B16.5 CL-150.

SALIENT FEATURES :

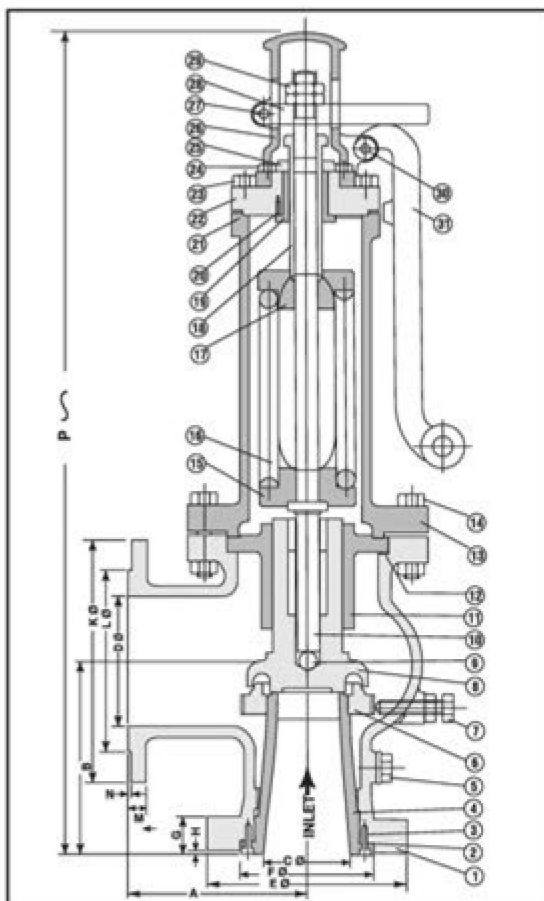
1. These Safety Valves are designed in such a way that instantaneous full lift of the seat is achieved.
2. Each Safety Valve is provided with an easing lever.
3. To avoid unauthorised alteration to the Set Pressure the adjusting screw and check nut are consealed by a cap which is attached to the Valve spindle by fork and pin.

TESTING AND CERTIFICATION :

All Safety Valve Bodies are Tested at 500 psig (35.15 Kg/Cm²) Hyd. All Valves are set at Max. Steam Pressure of 250 psig (17.58 Kg/Cm²).

Each Valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Valve Size	A	B	ØC	ØD	~P
25 x 50	100	93	26	50	437.5
40 x 65	130	110	40	65	518
40 x 80	130	110	40	80	518
50 x 100	140	130	50	100	586

INLET FLANGE AS PER ASME B16.5 CL-300

Valve Size	ØE	ØF	G	H
25 x 50	125	63	17.9	2
40 x 65	155	82.5	21.1	2
40 x 80	155	82.5	21.1	2
50 x 100	165	101.6	22.7	2

OUTLET FLANGE AS PER ASME B16.5 CL-150

Valve Size	ØK	ØL	M	N
25 x 50	150	92.1	16.3	2
40 x 65	180	104.8	17.9	2
40 x 80	190	127	19.5	2
50 x 100	230	157.2	24.3	2

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.S.	IBR 73 to 80
2.	Gasket	C.A.F.	IS-2712
3.	Allen Key Bolt	Steel	----
4.	Orifice Nozzle	13% Cr. S.S.	AISI-410
5.	Side Plug	Bronze	IBR-282 (a) (IV) Gr. B
6.	Regulating Ring	Bronze	IBR-282 (a) (IV) Gr. B
7.	Locking Screw	Extruded Brass Rod	----
8.	Valve Disc	13% Cr. S.S.	AISI-410
9.	Ball	S.S.	AISI-304
10.	Stem	S.S.	AISI-410
11.	Valve Disc Retainer	S.S.	AISI-410
12.	Gasket	C.A.F.	IS-2712
13.	Chamber	C.I.	IBR-86 To 93 Gr. A
14.	Bolts & Nuts	Carbon Steel	----
15.	Lower Spring Disc	C.I.	IBR-86 To 93 Gr. A
16.	Spring	Carbon Steel	IBR-307-314
17.	Upper Spring Disc	C.I.	IBR-86 To 93 Gr. A
18.	Spring Adjusting Screw	Bronze	IBR-282 (a) IV Gr. B
19.	Bush	Bronze	IBR-282 (a) IV Gr. B
20.	Locking Screw	M.S.	----
21.	Gasket	C.A.F.	IS-2712
22.	Cover Flange	C.I.	IBR-86 To 93 Gr. A
23.	Bolts & Nuts for Cover Flange	Carbon Steel	----
24.	Bolts for Housing Cover	M.S.	----
25.	Check Nut	Bronze	IBR-282 (a) IV Gr. B
26.	Housing Cover	C.I.	IBR-86 To 93 Gr. A
27.	Pin for Fork	S.S.	AISI-410
28.	Fork	M.S.	----
29.	Lock Nut	Bronze	IBR-282 (a) IV Gr. B
30.	Pin for Easing Lever	S.S.	AISI-410
31.	Easing Lever	M.I.	----



NETA VALVES PVT. LTD.

CAST STEEL

GLOBE VALVE PN - 40

STOUT & STURDY, SMOOTH PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL GLOBE VALVE to BS-5160/DIN 2401, PN-40, Straight or Right Angle Pattern, 13% Cr. S.S.(AISI-410) Trim, Outside Screw and Yoke Type, Rising Stem, Bolted Bonnet, Integral Flanges as per BS-4504 Part I Table 40/1/DIN 2545 PN-40 Raised Face. Body Tested to 60 Bar Gauge and Seat and Back Seat Tested to 40 Bar Gauge Hyd. Pressure. Max. Temp. 800°F (425°C).

SALIENT FEATURES :

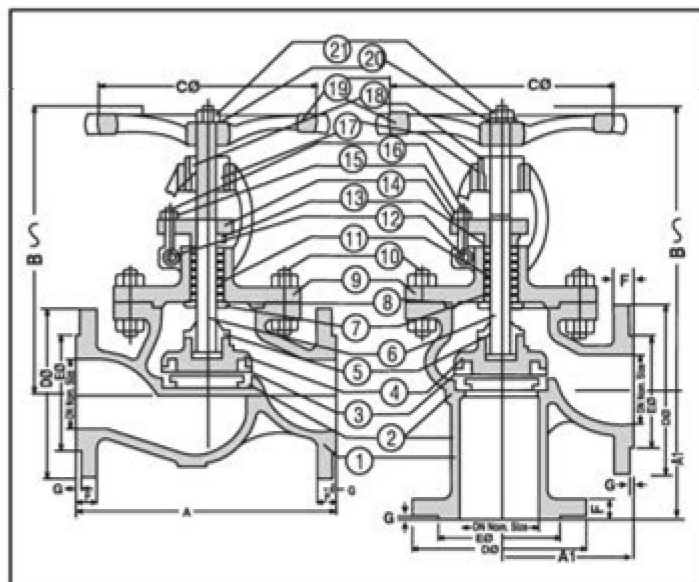
1. Stream lined Full Flow area is provided in the body to minimise Pressure drop.
2. Bolted self aligning two piece gland.
3. Renewable S.S. 13% S.S. (AISI-410) body seat ring and disc facing ring have at least 50 H.B. difference in hardness.
4. Provision of back to facilitate on line Replacement of gland packing under Pressure when valve is full open.
5. Ample depth of stuffing box.
6. Sturdy hand wheel is provided for operation.

TESTING AND CERTIFICATION :

All valves are tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



NOMINAL PRESSURE	STANDARD No.	MAX. Permissible Gauge working pressure at Temperature °C						
		10 To 120	200	250	300	350	400	425
40	BS 5160 (Bar)	40	40	38	33	28	23	20
	DIN 2401 Kg/Cm ² g	40	35	32	28	24	21	—



Nominal Size	DIMENSIONS							
DN	A	A ¹	B	C	D	E	F	G
DN15 (½")	130	90	165	120	95	45	16	2
DN20 (¾")	150	95	165	120	105	58	18	2
DN25 (1")	160	100	200	150	115	68	18	2
DN32 (1¼")	180	105	200	150	140	78	18	2
DN40 (1½")	200	115	245	200	150	88	18	3
DN50 (2")	230	125	260	200	165	102	20	3
DN65 (2½")	290	145	300	250	185	122	22	3
DN80 (3")	310	155	340	250	200	138	24	3
DN100 (4")	350	175	400	300	235	162	24	3
DN125 (5")	400	200	450	300	270	188	26	3
DN150 (6")	480	225	530	400	300	218	28	3
DN200 (8")	600	275	580	400	375	285	34	3
DN250 (10")	730	648	450	450	450	345	38	3
DN300 (12")	850	682	450	450	515	410	42	4

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 73 to 80
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Valve Disc Facing Ring	13% Cr. S.S.	AISI-410
4.	Valve Disc	Cast Steel	IBR 73 to 80
5.	Disc Retaining Nut	13% Cr. S.S.	AISI-410
6.	Stem	13% Cr. S.S.	AISI-410
7.	Back Seat Bush	13% Cr. S.S.	AISI-410
8.	Gasket	S.S. Type 304	Spiralwound Asbestos Filler
9.	Bonnet	Cast Steel	IBR 73 to 80
10.	Studs & Nuts	Alloy Steel H.T. Steel	ASTM A-193 Gr. B 7 ASTM A-194 Gr. 2H
11.	Packing	Graphited Asbestos	—
12.	PIN for Eye Bolts	13% Cr. S.S.	AISI-410
13.	Gland	13% Cr. S.S.	AISI-410
14.	Gland Flange	Cast Steel	IBR 73 to 80
15.	NUT For Eye Bolts	H.T. Steel	ASTM A-194 Gr. 2H
16.	Eye Bolts	13% Cr. S.S.	AISI-410
17.	Yoke Bush	13% Cr. S.S.	AISI-410
18.	Locking Screw	Steel	-----
19.	Handwheel	M.I.	-----
20.	Washer	Carbon Steel	-----
21.	NUT for Handwheel	Carbon Steel	-----



CAST STEEL

HORIZONTAL LIFT CHECK VALVE PN - 40

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' CAST STEEL HORIZONTAL LIFT CHECK VALVE to BS-5160/DIN 2401, PN-40, Straight or Right Angle Pattern, 13% Cr. S.S.(AISI-410) Trim, Bolted Bonnet, Integral Flanges as per BS-4504 Part I Table 40/1/DIN 2545 PN-40 Raised Face. Body Tested to 60 Bar Gauge and Seat Tested to 40 Bar Gauge Hyd. Pressure. Max Temp. 800°F (425°C).

SALIENT FEATURES :

1. Stream lined full Flow Area is provided to Minimise Pressure drop in the body.
2. Renewable S.S. 13% S.S. (AISI-410) body Seat Ring and Disc Facing Ring have at least 50 HB difference in hardness.
3. Bolted body cover joint.
4. Self Aligning Fully Guided Disc Ensures Proper Seating of Valve Disc on Body Seat Ring.

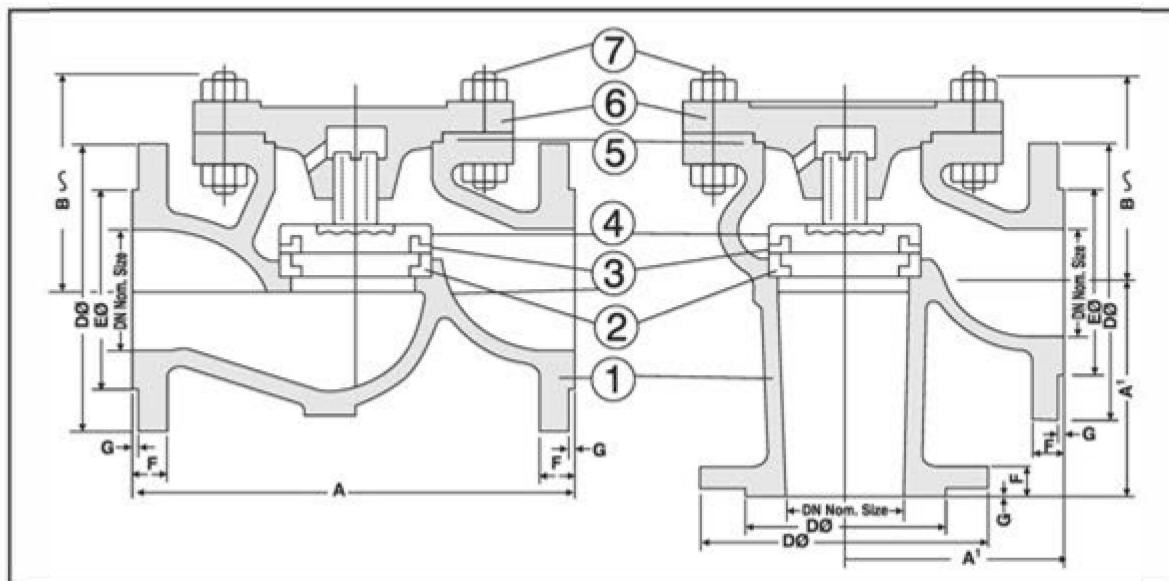
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



PRESSURE TEMPERATURE RATING :

NOMINAL PRESSURE	STANDARD No.	MAX. Permissible Gauge working pressure at Temperature °C						
		10 To 120	200	250	300	350	400	425
40	BS 5160 (Bar)	40	40	38	33	28	23	20
	DIN 2401 Kg/Cm ² g	40	35	32	28	24	21	—



Nominal Size	DIMENSIONS						
DN	A	A'	B	D	E	F	G
DN15 (1/2")	130	90	85	95	45	16	2
DN20 (3/4")	150	95	85	105	58	18	2
DN25 (1")	160	100	90	115	68	18	2
DN32 (1 1/4")	180	105	95	140	78	18	2
DN40 (1 1/2")	200	115	110	150	88	18	3
DN50 (2")	230	125	120	165	102	20	3
DN65 (2 1/2")	290	145	140	185	122	22	3
DN80 (3")	310	155	160	200	138	24	3
DN100 (4")	350	175	175	235	162	24	3
DN125 (5")	400	200	200	270	188	26	3
DN150 (6")	480	225	240	300	218	28	3
DN200 (8")	600	275	300	375	285	34	3
DN250 (10")	730	----	355	450	345	38	3
DN300 (12")	850	----	390	515	410	42	4

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 73 to 80
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Valve Disc Facing Ring	13% Cr. S.S.	AISI-410
4.	Valve Disc	Cast Steel	IBR 73 to 80
5.	Gasket	S.S. Type 304	Spiralwound Asbestos Filler
6.	Cover	Cast Steel	IBR 73 to 80
7.	Studs & Nuts	Alloy Steel H.T. Steel	ASTM A-193 Gr. B 7 ASTM A-194 Gr. 2H



NETA VALVES PVT. LTD.

CAST STEEL

STOP-CUM-NON RETURN VALVE PN - 40

VALVES MADE WITH MAXIMUM PRECISION & PERFECTION

DESCRIPTION :

'WJ' CAST STEEL STOP CUM NON RETURN VALVE to BS-5160/DIN-2401, PN-40, Straight or Right Angle Type. 13% Cr. S.S.(AISI-410) Trim. Bolted Bonnet, Out Side Screw, Yoke Type, Integral Flanges as per BS-4504 Part-I Table Rising Stem 40/1/2545 PN-40 Raised Face. Body Tested to 60 Bar Gauge. Seat and Back Seat 40 Bar Gauge Hyd. Pressure. Max. Temp. 800°F (425°C).

SALIENT FEATURES :

1. Stream lined Full Flow Area is provided in the body to minimise pressure drop.
2. Bolted self aligning Two piece gland.
3. Renewable S.S. 13% Cr. (AISI-410) body seat ring and disc facing ring have at least 50 H.B. difference in hardness.
4. Provision of Back Seat to Facilitate on line Replacement of gland packing under Pressure when valve is Fully open.
5. Ample depth of stuffing box.
6. Study hand wheel is provided for operation.

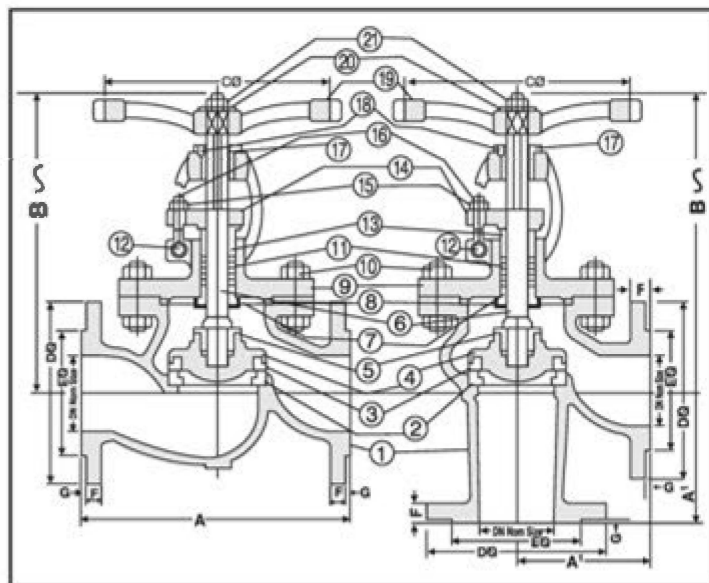
TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form II-C issued by The Director of Boilers, Punjab.



TEST PRESSURE :

NOMINAL PRESSURE	STANDARD No.	MAX. Permissible Gauge working pressure at Temperature °C						
		10 To 120	200	250	300	350	400	425
40	BS 5160 (Bar)	40	40	38	33	28	23	20
		40	35	32	28	24	21	----
	DIN 2401 Kg/Cm ² g	40	35	32	28	24	21	----



Nominal Size	DIMENSIONS							
DN	A	A'	B	C	D	E	F	G
DN15 (1/2")	130	90	165	120	95	45	16	2
DN20 (3/4")	150	95	165	120	105	58	18	2
DN25 (1")	160	100	200	150	115	68	18	2
DN32 (1 1/4")	180	105	200	150	140	78	18	2
DN40 (1 1/2")	200	115	245	200	150	88	18	3
DN50 (2")	230	125	260	200	165	102	20	3
DN65 (2 1/2")	290	145	300	250	185	122	22	3
DN80 (3")	310	155	340	250	200	138	24	3
DN100 (4")	350	175	400	300	235	162	24	3
DN125 (5")	400	200	450	300	270	188	26	3
DN150 (6")	480	225	530	400	300	218	28	3
DN200 (8")	600	275	580	400	375	285	34	3

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 73 to 80
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Valve Disc Facing Ring	13% Cr. S.S.	AISI-410
4.	Valve Disc	Cast Steel	IBR 73 to 80
5.	Disc Retaining Nut	13% Cr. S.S.	AISI-410
6.	Stem	13% Cr. S.S.	AISI-410
7.	Back Seat Bush	13% Cr. S.S.	AISI-410
8.	Gasket	S.S. Type 304	Spiralwound Asbestos Filler
9.	Bonnet	Cast Steel	IBR 73 to 80
10.	Studs & Nuts	Alloy Steel H.T. Steel	ASTM A-193 Gr. 87 ASTM A-194 Gr. 2H
11.	Packing	Graphited Asbestos	-----
12.	PIN for Eye Bolts	13% Cr. S.S.	AISI-410
13.	Gland	13% Cr. S.S.	AISI-410
14.	Gland Flange	Cast Steel	IBR 73 to 80
15.	NUT For Eye Bolts	H.T. Steel	ASTM A-194 Gr. 2H
16.	Eye Bolts	13% Cr. S.S.	AISI-410
17.	Yoke Bush	13% Cr. S.S.	AISI-410
18.	Locking Screw	Steel	-----
19.	Handwheel	M.I / C.I / D.I.	-----
20.	Washer	Carbon Steel	-----
21.	NUT for Handwheel	Carbon Steel	-----



NETA VALVES PVT. LTD.

CAST STEEL

GLOBE VALVE

CL-150, CL-300, CL-600

STOUT & STURDY WORKING

DESCRIPTION :

'WJ' CAST STEEL GLOBE VALVE to BS 1873. Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem with Back Seat Arrangement. Renewable 13% Cr. S.S. (AISI-410) Disc/ Stem. Plug Type Disc. Flanged ends BS 1560/ANSI-B 16.5. Raised Face are manufactured in CL-150, CL-300 and CL-600.

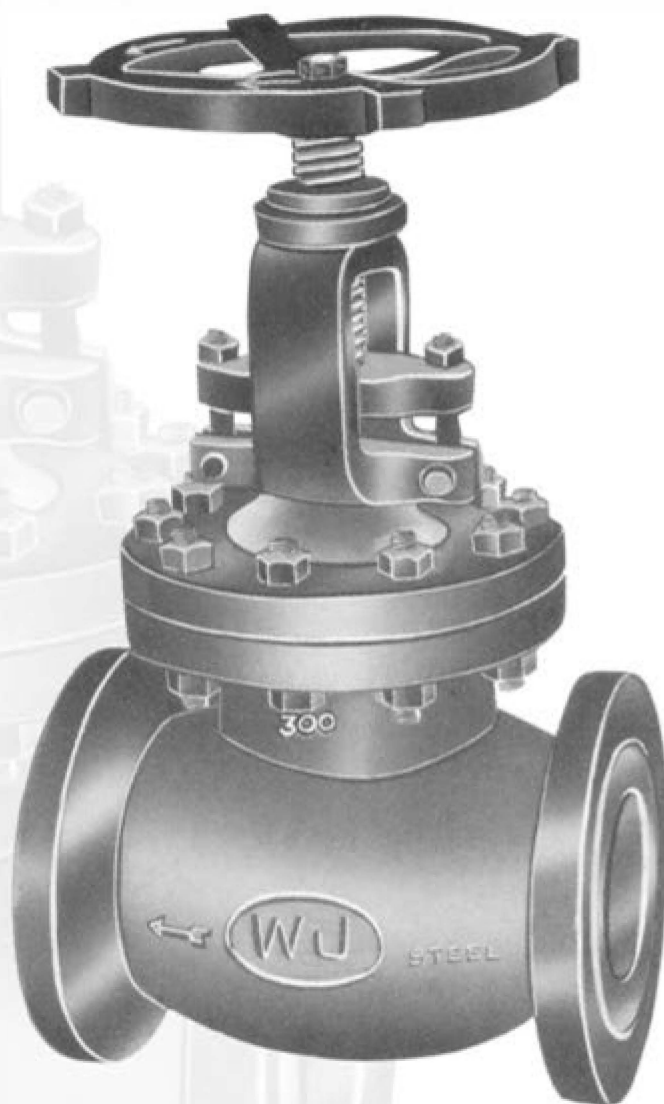
These valves have wide applications for high Temperature & Pressure pipe lines and are specially suitable for oil Refineries, Petrochemical Plants, Power Stations & other Industrial Plants. Max. Temp. for CL 150 (500°F, 260°C) for CL-300 & CL-600, (800°F- 425°C).

SALIENT FEATURES :

1. Stream lined full flow area is provided in body to minimise pressure drop.
2. Renewable 13% Cr. S.S. (AISI-410) body seat ring and disc. have at least 50 HB difference in hardness.
3. Bolted self aligning two piece gland.
4. Back seat provision is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
5. Ample depth of stuffing box.
6. Sturdy hand wheel is provided for easy operation of valve.

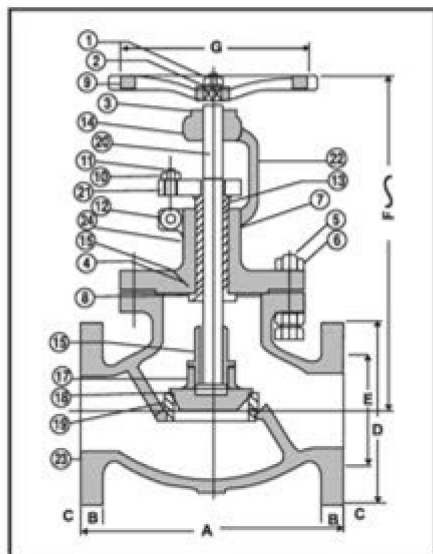
TESTING AND CERTIFICATION :

If required these valves can be supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

CLASS	BODY HYD.	SEAT HYD.	AIR
150	30 Bargauge	22 Bargauge	6.9 Bargauge
300	76 Bargauge	55 Bargauge	6.9 Bargauge
600	155 Bargauge	113 Bargauge	6.9 Bargauge

**DIMENSIONS CLASS-150 ONLY**

Valve Size	A	B	C	D	E	F	G
350 mm (14")	787	35.4	2	535	412.8	1185	700
400 mm (16")	914	37	2	595	469.9	1250	750
450 mm (18")	978	40.1	2	635	533.4	1350	800
500 mm (20")	978	43.3	2	700	584.2	1410	800

**FOR GATE, GLOBE AND SW. CH. VALVE
(CL-150, 300 & 600)**

Valve Size	B			D		
	CL-150	CL-300	CL-600	CL-150	CL-300	CL-600
40 mm	12.7	19.1	22.3	125	155	155
50 mm	14.3	20.7	25.4	150	165	165
65 mm	15.9	23.9	28.6	180	190	190
80 mm	17.5	27.0	31.8	190	210	210
100 mm	22.3	30.2	38.1	230	255	275
125 mm	22.3	33.4	44.5	255	280	330
150 mm	23.9	35.0	47.7	280	320	355
200 mm	27.0	39.7	55.6	345	380	420
250 mm	28.6	46.1	63.5	405	445	510
300 mm	30.2	49.3	66.7	485	520	560

DIMENSIONS

Nominal Size	A			C			E			F			G		
	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600
40 mm (1½")	165	229	241	2	2	7	73	73	73	250	295	315	180	200	200
50 mm (2")	203	267	292	2	2	7	92	92	92	276	320	350	200	205	200
65 mm (2½")	216	292	330	2	2	7	105	105	105	345	380	390	200	250	230
80 mm (3")	241	318	356	2	2	7	127	127	127	390	415	445	200	250	250
100 mm (4")	292	356	432	2	2	7	157.2	157.2	157.2	430	480	501	250	250	300
125 mm (5")	356	401	508	2	2	7	185.7	185.7	185.7	460	520	600	300	300	450
150 mm (6")	406	444	559	2	2	7	215.9	215.9	215.9	565	610	660	300	450	450
200 mm (8")	495	559	660	2	2	7	269.9	269.9	269.9	572	675	840	450	500	450
250 mm (10")	622	622	787	2	2	7	323.8	323.8	323.8	700	770	880	500	560	550
300 mm (12")	698	711	838	2	2	7	381	381	381	765	935	920	575	750	550

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Nut for Hand Wheel	M.S.	-----
2.	Washer	M.S.	-----
3.	Locking Screw	M.S.	-----
4.	Back Seat Bush	S.S.	-----
5.	Studs	Alloys Steel	ASTM A-193 Gr. B 7
6.	Nuts	High Tensile Steel	ASTM A-193 Gr. 2 H
7.	Packing	Graphited Asbestos	-----
8.	Gasket	C.A.F./SS (AISI 304) Spiral Wound	Asbestos Filled
9.	Hand Wheel	Malleable Iron /C.I. / D.I.	-----
10.	Nut for Eye Bolts	H.T. Steel	ASTM A-194 Gr. 2 H
11.	Eye Bolts	S.S.	AISI-410
12.	Pins for eye Bolts	S.S.	AISI-410
13.	Gland	S.S.	AISI-410
14.	Yoke Bush	S.S.	AISI-410
15.	Back Seat Bush	S.S.	AISI-410
16.	Disc retaining nut	S.S.	AISI-410
17.	Valve Disc	13% CR S.S.	AISI-410
18.	Thrust Plate	S.S.	AISI-410
19.	Body Seat Ring	13% CR S.S.	AISI-410
20.	Stem	S.S.	AISI-410
21.	Gland Flange	Cast Steel	ASTM A-216 GRWCB
22.	Bonnet	Cast Steel	ASTM A-216 GRWCB
23.	Body	Cast Steel	ASTM A-216 GRWCB
24.	Lantern Ring for CI 300 & CI 600	S.S.	AISI-410

NOTE : (1) Trim Material Combination on request can be provided. (2) Lantern Ring can be provided. Except for CL-150.



NETA VALVES PVT. LTD.

CAST STEEL

GATE VALVE

CL-150, CL-300, CL-600

STOUT & STURDY, SMOOTH PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL GATE VALVE to BS-1414-1975, API-600, Outside Screw, Yoke Type, Rising Stem with Back Seat Arrangement, Bolted Bonnet, 13% Cr. S.S. (AISI-410) Trim, Solid Wedge, Flanges as per BS-1560/ANSI-B 16.5. Raised Face are manufactured in CL-150, CL-300 & CL-600. Max. Temp. for CL-150 - (500°F, 260°C). For CL-300 & CL-600 (800°F, 425°C).

These valves have wide applications for high Temperature & Pressure Pipe lines and are specially suitable for oil Refineries, Petrochemical Plants, Power Stations & other Industrial Plants.

SALIENT FEATURES :

1. Stream lined full flow area is provided in body to Minimise Pressure drop.
2. Renewable 13% Cr. S.S. (AISI-410) body seat ring and Disc have at least 50 HB difference in hardness.
3. Bolted self aligning two piece gland.
4. Back seat provision is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
5. Ample depth of stuffing box.
6. Sturdy hand wheel is provided for easy operation of valve.

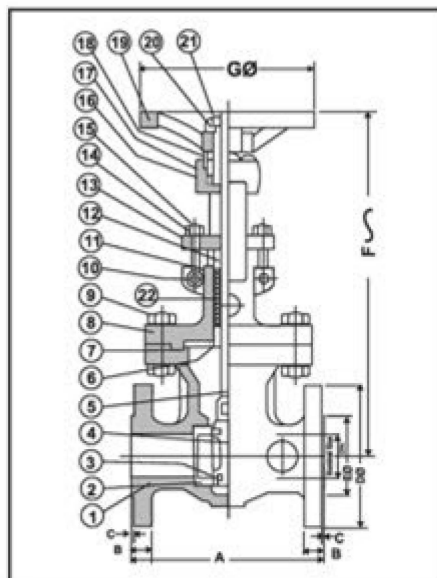
TESTING AND CERTIFICATION :

If required these valves can be supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

CLASS	BODY HYD.	SEAT HYD.	AIR
150	30 Bargauge	22 Bargauge	6.9 Bargauge
300	76 Bargauge	55 Bargauge	6.9 Bargauge
600	155 Bargauge	113 Bargauge	6.9 Bargauge



DIMENSIONS CLASS-150 ONLY

Valve Size	A	R	C	D	E	F	G
350 mm (14")	787	35.4	2	535	412.8	1185	700
400 mm (16")	914	37	2	595	469.9	1250	750
450 mm (18")	978	40.1	2	635	533.4	1350	800
500 mm (20")	978	43.3	2	700	584.2	1410	800

FOR GATE, GLOBE AND SW. CH. VALVE (CL-150, 300 & 600)

Valve Size	B			D		
	CL-150	CL-300	CL-600	CL-150	CL-300	CL-600
40 mm	12.7	19.1	22.3	125	155	155
50 mm	14.3	20.7	25.4	150	165	165
65 mm	15.9	23.9	28.6	180	190	190
80 mm	17.5	27.0	31.8	190	210	210
100 mm	22.3	30.2	38.1	230	255	275
125 mm	22.3	33.4	44.5	255	280	330
150 mm	23.9	35.0	47.7	280	320	355
200 mm	27.0	39.7	55.6	345	380	420
250 mm	28.6	46.1	63.5	405	445	510
300 mm	30.2	49.3	66.7	485	520	560

DIMENSIONS

Nominal Size	A			C			E			F			G		
	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600
40 mm (1½")	165	190	241	2	2	7	73	73	73	260	295	305	150	150	180
50 mm (2")	178	216	292	2	2	7	92	92	92	318	344	352	150	180	180
65 mm (2½")	190	241	330	2	2	7	105	105	105	370	400	430	180	200	250
80 mm (3")	203	283	356	2	2	7	127	127	127	400	452	465	200	240	250
100 mm (4")	229	305	432	2	2	7	157.2	157.2	157.2	500	530	592	250	250	300
125 mm (5")	254	381	508	2	2	7	185.7	185.7	185.7	660	628	750	300	300	450
150 mm (6")	267	403	559	2	2	7	215.9	215.9	215.9	662	700	940	300	350	500
200 mm (8")	292	419	660	2	2	7	269.9	269.9	269.9	900	1000	1015	350	400	550
250 mm (10")	330	457	787	2	2	7	323.8	323.8	323.8	985	1195	1040	400	400	550
300 mm (12")	356	502	836	2	2	7	381	381	381	1133	1290	1300	400	450	550

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	ASTM A216 Gr. WCB
2.	Body Seat Ring	S.S.	AISI-410 (Min. HB 250)
3.	Wedge Facing Ring	S.S.	AISI-410 (Min. HB 300)
4.	Wedge	Cast Steel	ASTM A216 Gr. WCB
5.	Stem	S.S.	AISI-410 (Min. HB 200)
6.	Back Seat Bush	S.S.	-----
7.	Gasket	C.A.F./S.S. Type 304	Spiral Wound Asbestos Filler
8.	Bonnet	C.S.	ASTM A216 Gr. WCB
9.	Studs & Nuts	Alloy Steel / H.T. Steel	ASTM A-193 Gr. B7 / ASTM A-194 Gr. 2H
10.	Pins for Eye Bolts	S.S.	AISI-410
11.	Packing	Graphited Asbestos	-----
12.	Gland	S.S.	AISI-410
13.	Gland Flange	C.S.	ASTM A216 Gr. WCB
14.	Nuts for Eye Bolt	H.T. Steel	AISM A194 Gr. 2H
15.	Eye Bolts	S.S.	AISI-410
16.	Yoke Sleeve	S.S.	AISI-410
17.	Yoke Sleeve Retaining Nut	S.G. Iron	-----
18.	Locking Screw	M.S.	-----
19.	Hand Wheel	C.I. / D.I. / M.I.	IS 210 FG 200 / IS 2108 Gr. BM 290
20.	Hand Wheel Nut	M.S.	-----
21.	Locking Screw	M.S.	-----
22.	Lantern Ring for CL-300 & CL-600	S.S.	AISI-410

NOTE : (1) Trim Material Combination on request can be provided. (2) Lantern Ring can be provided. Except for CL-150.



NETA VALVES PVT. LTD.

CAST STEEL

SWING CHECK VALVE

CL-150, CL-300, CL-600

SUPER TROUBLE - FREE PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL SWING CHECK VALVE to BS-1868-1975, API-6 D Bolted Bonnet 13% Cr. SS(AISI-410) Trim. Flanges as per BS-1560/ANSI B-16.5 Raised Face are manufactured in CL-150, CL-300 & CL-600.

These Valves have wide application for high Temperature and Pressure Pipe Lines and are specially suitable for Oil Refineries, Petro-Chemical Plants, Power Stations and other Industrial Plants. Max. Temp. for CL-150 (500°F, 260°C). For CL-300 & CL-600 (800°F, 425°C).

SALIENT FEATURES :

1. Stream lined full flow area is provided in body to minimise pressure drop.
2. Renewable 13% Cr. SS (AISI-410) body seat ring and disc have at least 50 HB difference in hardness.

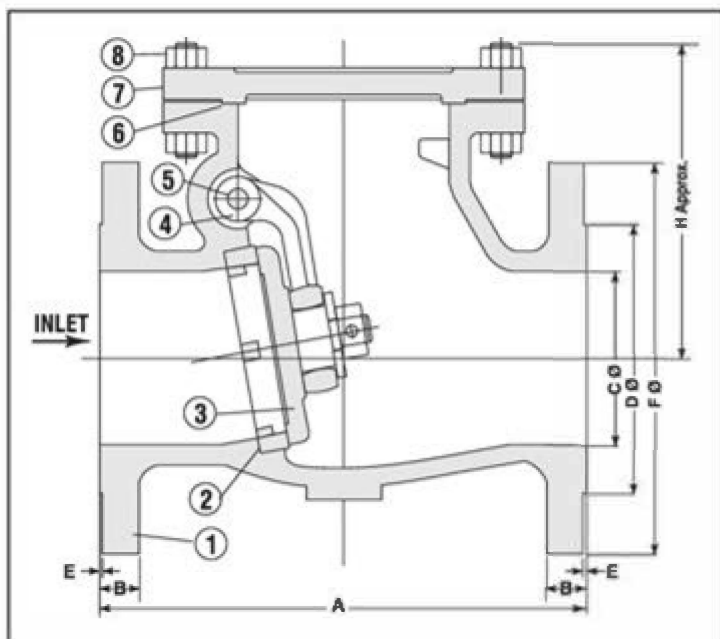
TESTING AND CERTIFICATION :

All Valves are Tested Hydrostatically at the specified Pressure. If required these Valves can be supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



TEST PRESSURE

CLASS	BODY HYD.	SEAT HYD.
150	30 Bar Gauge	22 Bar Gauge
300	76 Bar Gauge	55 Bar Gauge
600	155 Bar Gauge	113 Bar Gauge



DIMENSIONS CLASS-150 ONLY

Valve Size	A	B	E	F	D	H
350 mm (14")	787	35.4	2	535	412.8	465
400 mm (16")	864	37	2	595	469.9	495
450 mm (18")	978	40.1	2	635	533.4	545
500 mm (20")	978	43.3	2	700	584.2	600

DIMENSIONS

Valve Size	B			D		
	CL-150	CL-300	CL-600	CL-150	CL-300	CL-600
40 mm	12.7	19.1	22.3	73	73	73
50 mm	14.3	20.7	25.4	92	92	92
65 mm	15.9	23.9	28.6	105	105	105
80 mm	17.5	27.0	31.8	127	127	127
100 mm	22.3	30.2	38.1	157.2	157.2	157.2
125 mm	22.3	33.4	44.5	185.7	185.7	185.7
150 mm	23.9	35.0	47.7	215.9	215.9	215.9
200 mm	27.0	39.7	55.6	269.9	269.9	269.9
250 mm	28.6	46.1	63.5	323.8	323.8	323.8
300 mm	30.2	49.3	66.7	381	381	381

DIMENSIONS

Nominal Size	A			C			E			F			H (Approx)		
	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600
40 mm (1½")	165	241	241	38	38	38	2.0	2.0	7.0	125	155	155	118	130	150
50 mm (2")	203	267	292	51	51	51	2.0	2.0	7.0	150	165	165	130	155	175
65 mm (2½")	216	292	330	64	64	64	2.0	2.0	7.0	180	190	190	150	160	185
80 mm (3")	241	318	356	76	76	76	2.0	2.0	7.0	190	210	210	160	185	210
100 mm (4")	292	356	432	102	102	102	2.0	2.0	7.0	230	255	275	184	220	230
125 mm (5")	330	400	508	127	127	127	2.0	2.0	7.0	255	280	330	220	270	250
150 mm (6")	356	444	559	152	152	152	2.0	2.0	7.0	280	320	355	223	275	285
200 mm (8")	495	533	660	203	203	203	2.0	2.0	7.0	345	380	420	265	303	320
250 mm (10")	622	622	787	254	254	254	2.0	2.0	7.0	405	445	510	325	360	390
300 mm (12")	698	711	838	305	305	305	2.0	2.0	7.0	485	520	560	350	430	460

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	ASTM A-216 Gr. WCB
2.	Body Seat Ring	S.S.	AISI-410
3.	Valve Disc	S.S. / C.S. with S.S. Weld Deposit Facing	AISI-410 / ASTM A-216 Gr. WCB
4.	Hinge	Cast Steel	ASTM A-216 Gr. WCB
5.	Hinge Pin	S.S.	AISI-410
6.	Gasket	C.A.F. / S.S. (AISI-304) Spiral Wound	Asbestos Filled
7.	Cover Flange	Cast Steel	ASTM A-216 Gr. WCB
8.	Studs and Nuts	Alloy Steel / HT Steel	ASTM A-193 Gr. B7 / ASTM A-194 Gr. 2H



NETA VALVES PVT. LTD.

CAST STEEL

VERTICAL LIFT CHECK VALVE

**DESIGNED TO WORK
UNDER VARIED CONDITIONS**

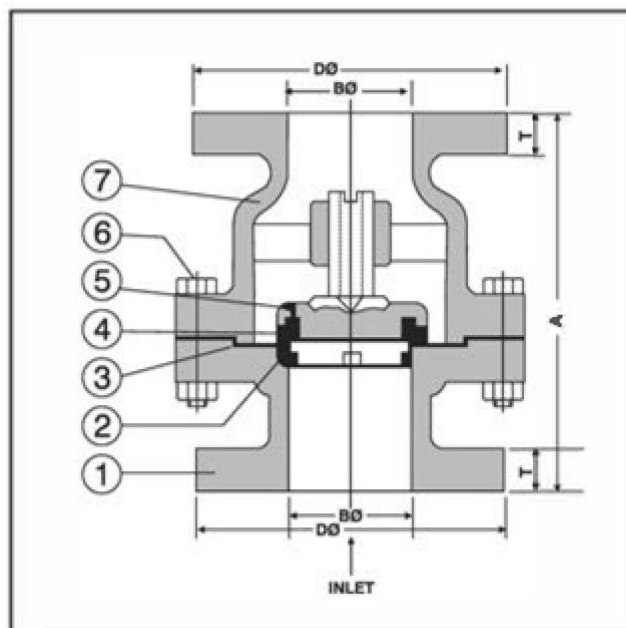
DESCRIPTION :

'WJ' CAST STEEL (A-216 Gr. WCB) VERTICAL LIFT CHECK VALVE, with 13% Cr. S.S. (AISI-410) Trim. Flanged Ends as Per BS-10 Table 'J' Max. B.O.P.-24.6 Kg./Cm² (350Psig) Max. Temp. 425°C (800°F). Tested to 49.2Kg/Cm² Hyd. (700Psig).

TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each Valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	A	B	D	T
25	135	25	120.7	17.5
32	-----	-----	-----	-----
40	175	40	140	22.2
50	200	50	165	25.4
65	225	65	184.2	25.4
80	260	80	203	28.5
100	285	100	229	32
125	350	125	280	35
150	360	150	305	35
200	400	200	368.5	38

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Lower Body	Cast Steel	IBR 73 to 80
2.	Body Seat Ring	13% Cr. S.S.	AISI-410
3.	Gasket	C.A.F.	IS : 2712
4.	Valve Disc Facing Ring	13% Cr. S.S.	AISI-410
5.	Valve Disc	S.S.	AISI-410
6.	Bolts & Nuts	Carbon Steel	----
7.	Upper Body	Cast Steel	IBR 73 to 80



CAST STEEL

MOISTURE SEPARATOR FLANGES TABLE 'J'



STOUD & STURDY WORKING

DESCRIPTION :

'WJ' CAST STEEL MOISTURE SEPARATORS are manufactured, with Flanged Ends as per BS-10 Table 'J'. These are suitable for Maximum Working Pressure of (24.6 Kg/Cm²) on steam lines. Max. Temp. -425°C.

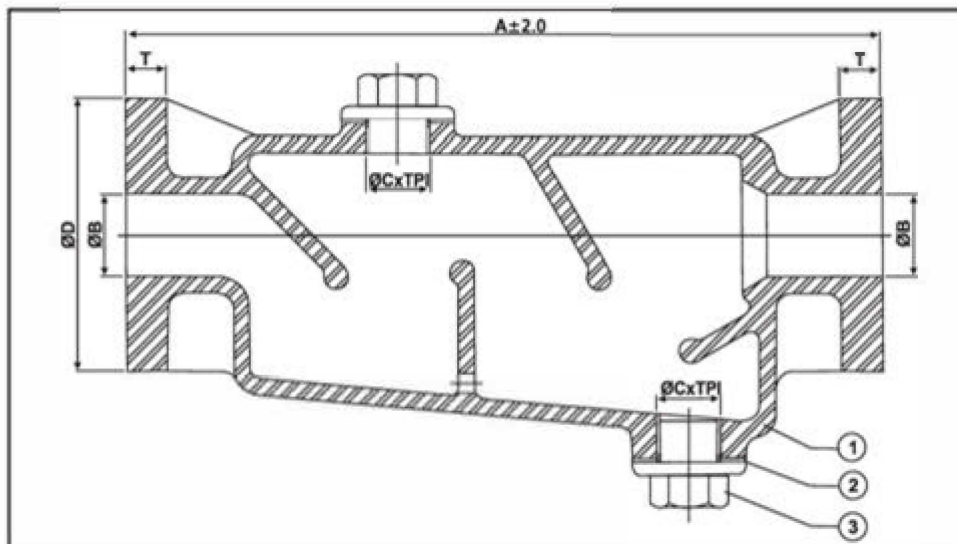
SALIENT FEATURES :

Moisture Separators are provided with internal Ribs which help to remove the condensate from the steam lines.

TERMS & CONDITIONS :

All the Moisture Separators are Tested at Double the Max. Working Pressure. Each Moisture Separator is supplied with IBR Test Certificate in Form III-C, issued by The Director of Boilers, Punjab.





DIMENSIONS (TABLE-'J')					
NOMINAL SIZE	A±2.0	ØB	ØD	T	ØC x TPI
25 mm	300	25	120.7	19.1	Ø40 x 14 TPI
40 mm	370	40	139.7	22.2	Ø40 x 14 TPI
50 mm	466	50	165.1	25.4	Ø40 x 14 TPI
65 mm	485	63	184.2	25.4	Ø63 x 12 TPI
80 mm	485	76	203.2	31.8	Ø63 x 12 TPI
100 mm	696	100	228.6	34.9	Ø63 x 12 TPI
150 mm	706	150	304.8	38.1	Ø63 x 12 TPI

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 73 to 80
2.	Gasket	C.A.F.	IS 2712
3.	Drain Plug	S.S.	AISI-410



CAST STEEL

MOISTURE SEPARATOR FLANGES (CL-300)



STOUD & STURDY WORKING

DESCRIPTION :

'WJ' CAST STEEL MOISTURE SEPARATORS are manufactured, with Flanged Ends to ANSI-B-16.5 Raised Face CL-300. These are suitable for Maximum Working Pressure of (29.4 Kg/Cm²) on steam lines. Max. Temp. 425°C.

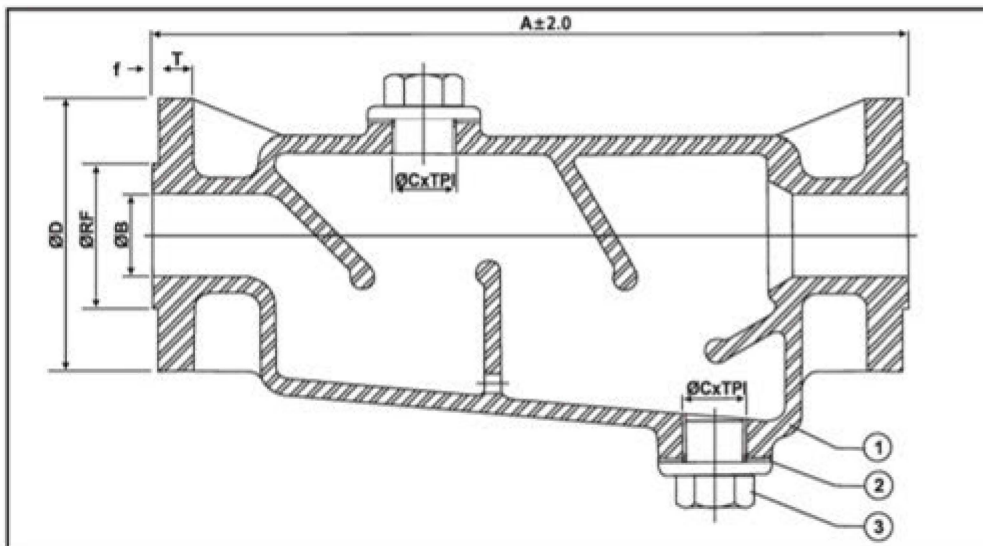
SALIENT FEATURES :

Moisture Separators are provided with internal Ribs which help to remove the condensate from the steam lines.

TERMS & CONDITIONS :

All the Moisture Separators are Tested at Double the Max. Working Pressure. Each Moisture Separator is supplied with IBR Test Certificate in Form III-C, issued by The Director of Boilers, Punjab.





DIMENSIONS (CL-300)							
NOMINAL SIZE	A±2.0	ØB	ØD	ØRF	T	f	ØC x TPI
25 mm	300	25	125	50.8	15.9	2.0	Ø40 x 14 TPI
40 mm	370	40	155	73.0	19.1	2.0	Ø40 x 14 TPI
50 mm	466	50	165	92.1	20.7	2.0	Ø40 x 14 TPI
65 mm	485	63	190	104.8	23.9	2.0	Ø63 x 12 TPI
80 mm	485	76	210	127.0	27.0	2.0	Ø63 x 12 TPI
100 mm	696	100	255	157.2	30.2	2.0	Ø63 x 12 TPI
150 mm	706	150	320	215.9	35.0	2.0	Ø63 x 12 TPI

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 73 to 80
2.	Gasket	C.A.F.	IS 2712
3.	Drain Plug	S.S.	AISI-410



NETA VALVES PVT. LTD.

CAST STEEL

Y-TYPE STRAINER FLANGES TABLE 'J'

EFFICIENT PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL Y-TYPE STRAINERS are manufactured with S.S. (AISI-304) Screen with flanged ends to BS-10 Table 'J'. These strainers can also be supplied with Flanges as per BS-1560 Part-2, BS-4504 Part-1 Table 40/1.

These strainers are suitable for 350 PSIG (24.6 Kg/Cm²) Max Steam Pressure at 800°F (425°C) Temp. and are Tested at 700 PSIG (49.2 Kg/Cm²) Hyd. Pressure.

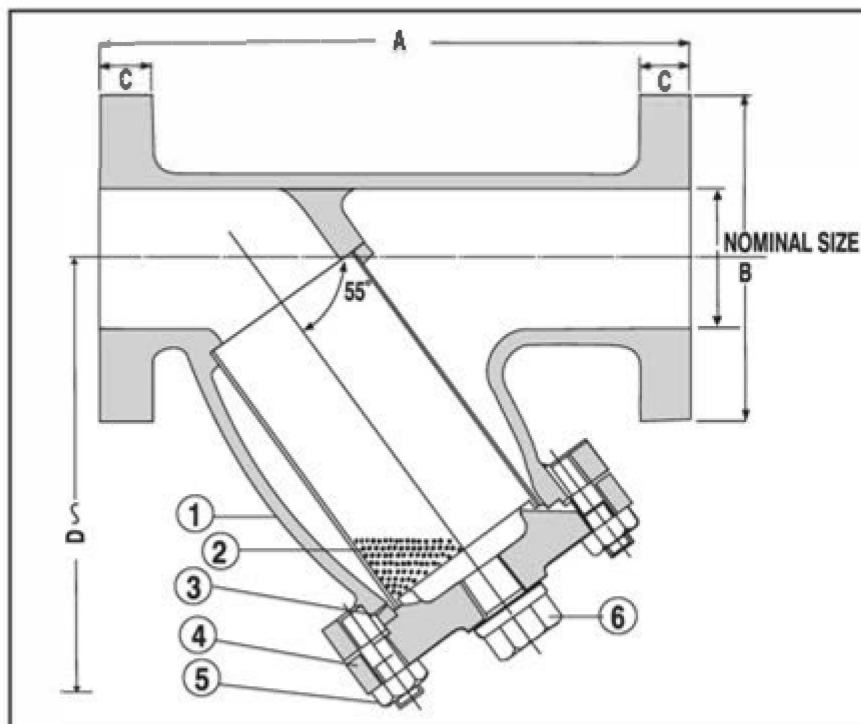
SALIENT FEATURES :

1. Fine finish and smooth contours reduce pressure drop in the strainer.
2. Large screening area makes the strainer efficient.
3. Screen is guided in the body.
4. Strainer may be installed in the down ward vertical lines with effectiveness equal to horizontal installation.
5. Drain plug is provided in larger sizes to drain off the foreign particles accumulated in the strainer.

TESTING AND CERTIFICATION :

All Valves are Tested at Double the Max. Working Pressure. Each strainer is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	A	B	C	D
25 mm (1")	181	120.7	19.05	118
40 mm (1½")	260	140	22.2	200
50 mm (2")	276.5	165.1	25.4	225
65 mm (2½")	270	184.1	25.4	240
80 mm (3")	296	203.2	31.8	280
100 mm (4")	403	228.6	35	310
125 mm (5")	429	279.4	38.1	396
150 mm (6")	476	304.8	38.1	405
200 mm (8")	670	368.3	41.3	650

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR Grade
2.	Strainer	S.S.	AISI-304
3.	Gasket	Steam Jointing	----
4.	Cover Flange	Cast Steel	IBR Grade
5.	Studs & Nuts	Carbon Steel	----
6.	Plug	M.S.	-----



CAST STEEL

Y-TYPE STRAINER

CL-150, CL-300, CL-600

EFFICIENT PERFORMANCE

DESCRIPTION :

WJ CAST CARBON STEEL (A-216 GR. WCB) Y-TYPE STRAINER with S.S. (AISI-304) Perforated Screen, Flanged Ends to BS 1560/ANSI. B-16.5 CL-150, CL-300 & CL-600. Raised Faced.

Body Test Pressure 30 Bar Gauge Hyd. For CL-150.

Body Test Pressure 76 Bar Gauge Hyd. For CL-300.

Body Test Pressure 155 Bar Gauge Hyd. For CL-600.

Max. Temp. for CL-150 (260°C, 500°F).

Max. Temp. for CL-300 & CL-600 (425°C, 800°F).

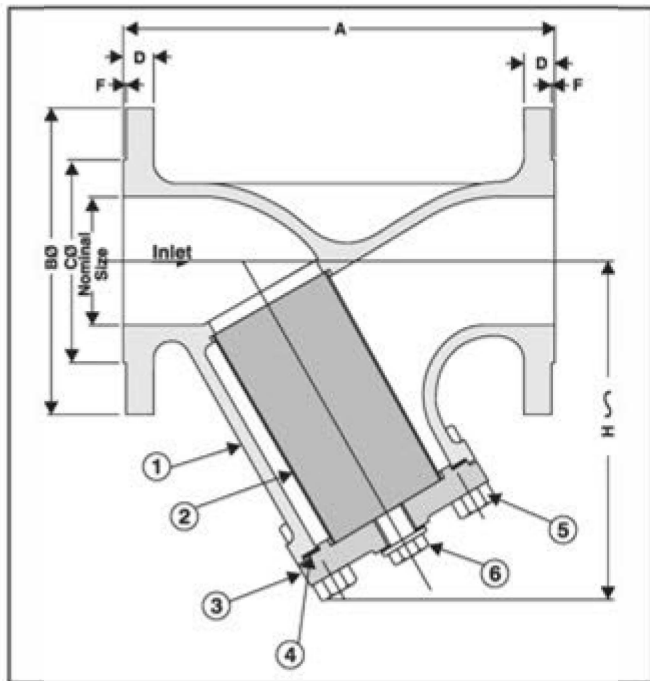
SALIENT FEATURES :

1. Fine finish and smooth contours Reduce Pressure Drop in the strainer.
2. Large screening area makes the strainer efficient.
3. Screen is guided in the body.
4. Strainer may be installed in the down ward vertical lines with effectiveness equal to horizontal installation.
5. Drain plug is provided in larger sizes to drain off the foreign particles accumulated in the strainer.

TESTING AND CERTIFICATION :

All Valves are Tested at Double the Maximum Working Pressure. Each strainer is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS CLASS - 150

Nominal Size	A	B	C	D	F	H
25 mm (1")	127	108	50.8	11.2	1.6	85
40 mm (1½")	176	127	73	14.2	1.6	135
50 mm (2")	209	152.5	92	15.8	1.6	180
65 mm (2½")	248	178	104.8	17.5	1.6	200
80 mm (3")	270	190.5	127	19.1	1.6	210
100 mm (4")	314	229	157.2	24	1.6	246
125 mm (5")	381	254	185.7	25.6	1.6	310
150 mm (6")	457	279.5	216	25.6	1.6	378
200 mm (8")	552	343	269.8	28.6	1.6	460

DIMENSIONS CLASS - 300

Nominal Size	A	B	C	D	F	H
25 mm (1")	178	124	50.8	17.5	1.6	120
40 mm (1½")	257	155.5	73	20.6	1.6	200
50 mm (2")	271	165.1	92	22.4	1.6	225
65 mm (2½")	270	190.5	104.8	25.4	1.6	240
80 mm (3")	290	209.6	127	28.5	1.6	280
100 mm (4")	397	254	157.2	32	1.6	310
125 mm (5")	423	279.5	185.7	35.1	1.6	396
150 mm (6")	473	317.5	216	36.6	1.6	405
200 mm (8")	670	381	269.8	41.2	1.6	650

DIMENSIONS CLASS - 600

Nominal Size	A	B	C	D	F	H
40 mm (1½")	245	155.5	73	28.8	6.4	195
50 mm (2")	296	165.1	92	31.8	6.4	240
65 mm (2½")	305	190.5	104.8	34.9	6.4	250
80 mm (3")	350	209.6	127	38.4	6.4	297
100 mm (4")	440	273	157.2	44.5	6.4	338
150 mm (6")	559	355	216	54.4	6.4	479
200 mm (8")	660	420	269.7	62	6.4	651

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	ASTM A - 216 Gr. WCB
2.	Screen	S.S. (Perforated)	AISI-304
3.	Bonnet	Cast Steel	ASTM A - 216 Gr. WCB
4.	Gasket	C.A.F/SS (AISI-304) Spiral Wound	Asbestos Filled
5.	Bolts & Nuts	Alloy Steel / HT Steel	ASTMA 193 Gr. 87/ASTMA 194 Gr. 2 H
6.	Drain Plug	M.S.	-----



NETA VALVES PVT. LTD.

CAST STEEL

PARALLEL SLIDE

BLOW OFF VALVE

PIN - POINT HIGH PERFORMANCE

DESCRIPTION :

'WJ' CAST STEEL PARALLEL SLIDE BLOW OFF VALVES Rack and Pinion operated are manufactured with Flanged Ends as per BS-10 Table 'J' for Maximum Boiler operating Pressure of 350 PSIG (24.6 Kg/Cm²) at 800°F (425°C) Temp. These valves are Tested at 700 PSIG. (49.2 Kg/Cm²) Hyd. Pressure.

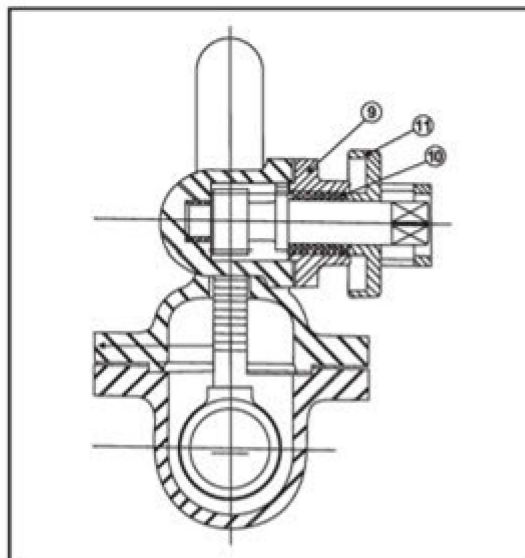
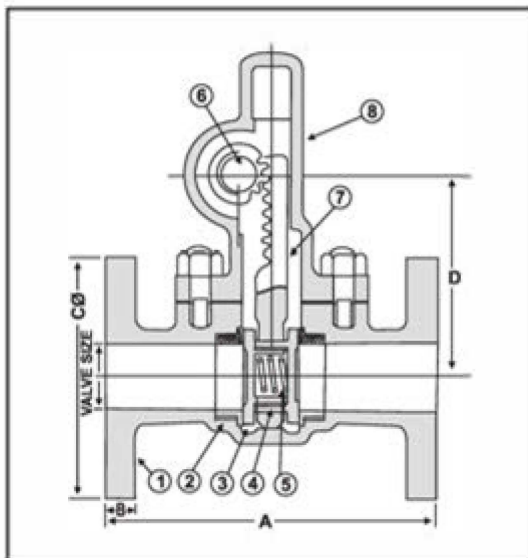
SALIENT FEATURES :

1. Parallel Slide Valve maintains fluid tightness and ease of operation without the aid of wedging action.
2. Discs. are kept in close contact with body seat rings by means of a spring when the valve is not under pressure.
3. Slide valve action removes all foreign matter from the faces of seats.
4. Valve is operated by means of rack and pinion Arrangement in such a manner that the valve is opened fully with half turn of the box key.
5. Gland forms a locking guard which prevents the removal of key unless the valve is closed.

TESTING AND CERTIFICATION :

All valves are Tested at Double the Max. Working Pressure. Each valve is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS

Nominal Size	A	B	C	D	E Approx.
25mm (1")	178	19.1	120.7	105	165
32mm (1¼")	241.5	19.1	133.3	125	195
40mm (1½")	267	22.2	140	130	215
50mm (2")	305	25.4	165.1	156	258
65mm (2½")	330	25.4	184.1	180	325

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	IBR 282 (a) IV Gr. B.
2.	Body Seat Ring	S.S. / Monal	AISI-304/410
3.	Inside Disc	S.S. / Monal	AISI-304/410
4.	Outside Disc	S.S. / Monal	AISI-304/410
5.	Spring	Carbon Steel	IBR 307 to 314
6.	Pinion	S.S.	AISI-410
7.	Rack	Bronze	IBR 282 (a) IV Gr. B.
8.	Bonnet	Cast Steel	IBR 282 (a) IV Gr. B.
9.	Stuffing Box	Bronze	IBR 282 (a) IV Gr. B.
10.	Gland	Bronze	IBR 282 (a) IV Gr. B.
11.	Packing	Graphited Asbestos	—



CAST STEEL

SLEEVE PACKED WATER LEVEL GAUGE

MADE WITH MAXIMUM PRECISION & PERFECTION

DESCRIPTION :

'WJ' CAST STEEL SLEEVE PACKED WATER LEVEL GAUGE. Flanged Ends to BS-10 Table 'J' with Automatic shut off in the water arm. Suitable for 350 PSIG (24.6 Kg/Cm²). Max. B.O.P. and Temp. 425°C. Tested to 700 PSIG (49.2 Kg/Cm²) Hydrostatic Pressure.

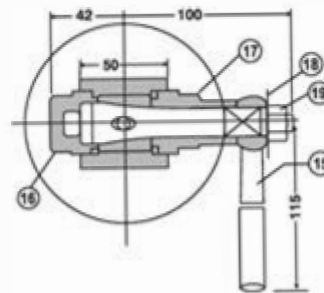
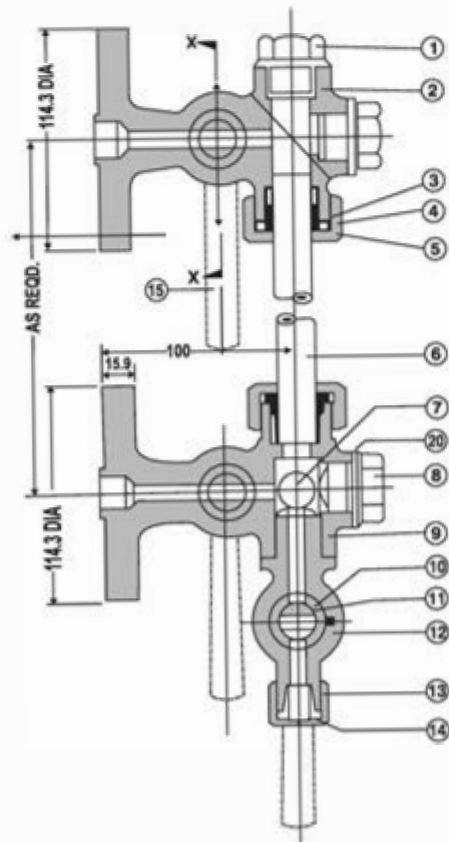
SALIENT FEATURES :

1. Each Cock is fitted with a self adjusting inverted Taper plug which forms a seal in a Renewable moulded Asbestos Sleeve.
2. The Sleeve can be easily positioned in the cock by a rib which fits a corresponding groove in the body.
3. The sleeve is reinforced by metallic eyelets to avoid clogging of the passage.
4. A ball valve in the water arm cuts off water supply in the event of breakage of Glass Tube.
5. Glass Tube are fitted with replaceable rubber cones.

TESTING AND CERTIFICATION :

All water level Gauges are Tested at Double the Maximum Working Pressure. Each water level Gauge is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Top Gauge Side Nut	M.S.	----
2.	Top Gauge Arm	Cast Steel	IBR 73 to 80
3.	Gland Nut	M.S.	----
4.	Rubber Cone	Rubber	----
5.	Washers	S.S.	AISI-410
6.	Glass Tube	Glass	----
7.	Ball	S.S.	AISI-304
8.	Bottom Gauge Side Nut	M.S.	----
9.	Bottom Gauge Arm	Cast Steel	IBR 73 to 80
10.	Sleeve	Moulded Asbestos	----
11.	Spindle	S.S.	AISI-304/AISI-410
12.	Drain Cock Body	Cast Steel	IBR 73 to 80
13.	Drain Nut	M.S.	----
14.	Drain Nipple	S.S.	AISI-410
15.	Handle	M.I./BRASS	----
16.	Back Nut	M.S.	----
17.	Bonnet	M.S.	----
18.	Name Plate Washers	Brass Sheet	----
19.	Nut for Handle	M.S.	----
20.	Gasket & Washers	Steam Jointing / M.S.	----



NETA VALVES PVT. LTD.

CAST STEEL

CAST CARBON STEEL

BUCKET TYPE STEAM TRAP VERTICAL / HORIZONTAL

**HIGH PERFORMANCE
UNDER DIFFERENT
STEAM PRESSURES**

DESCRIPTION :

'WJ' CAST CARBON STEEL (A-216 Gr. WCB) VERTICAL & HORIZONTAL INVERTED BUCKET TYPE STEAM TRAP with stainless steel SS (AISI-304) Bucket, Screwed Female Ends BSP Parallel Threads.

Maximum Working Pressure : 24.6 Kg/cm²

Max. Temperature : 425°C (800°F)

Body Tested to : 49.2 Kg/cm²

TESTING AND CERTIFICATION :

All Traps are Tested hydrostatically at Double the Max. Working Pressure. Each Trap is Tested on steam line to see the performance of Traps. Each Trap is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.

DISCHARGE CAPACITIES :

Discharge capacities of Steam Traps under different Steam Pressures are given in Kg/hour of hot condensate at Temperature corresponding to the inlet Steam Pressure.

Note : These steam traps are suitable for Vertical and Horizontal Installation.



(HORIZONTAL)

(VERTICAL)

INLET STEAM PRESSURE		CAPACITY IN KILOGRAMS PER HOUR		
Kg/Cm ²	PSIG	25 mm	40 mm	50 mm
3.52	50	1850	4000	8200
5.27	75	1725	4150	8300
7.03	100	1625	4700	8150
10.54	150	1575	4300	8350
13.00	185	1650	4500	8560
17.58	250	1400	4300	8180
21.09	300	1250	3500	7120
24.06	350	1350	3600	7280



VERTICAL INSTALLATION

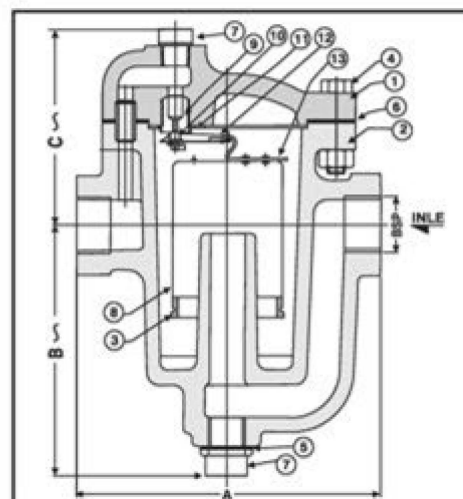
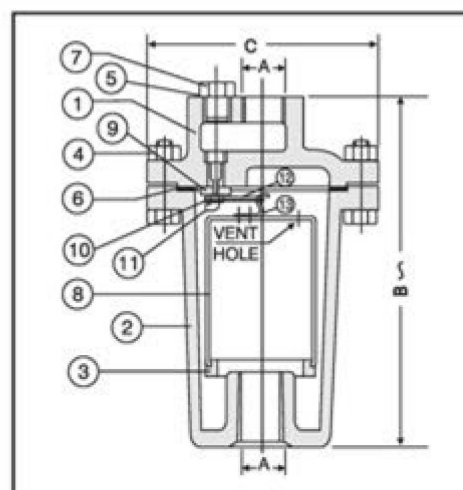
DIMENSIONS

NOMINAL SIZE	A	B (Approx.)	C
25 mm (1")	1" BSP	270	195
40 mm (1½")	1½" BSP	335	235
50 mm (2")	2" BSP	360	255

HORIZONTAL INSTALLATION

DIMENSIONS

NOMINAL SIZE	A	B	C
25 mm (1")	180	147	115
40 mm (1½")	245	195	140
50 mm (2")	290	260	196



MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Cover	Cast Steel	IBR 73 to 80
2.	Body	Cast Steel	IBR 73 to 80
3.	Bucket Ring	M.I.	----
4.	Nuts & Bolts	M.S.	----
5.	Gasket Washer	Steam Jointing	----
6.	Gasket	Steam Jointing	----
7.	Plug	S.S.	SS (AISI-410)
8.	Bucket	S.S. Sheet	----
9.	Valve Seat	S.S.	AISI-410
10.	Valve Ball	S.S.	AISI-304
11.	Hook Plate	S.S.	AISI-304
12.	Lever	S.S.	AISI-304
13.	Bucket Hook	S.S.	AISI-304



CAST STEEL

THERMO DYNAMIC STEAM TRAP

ENSURES HIGH PERFORMANCE

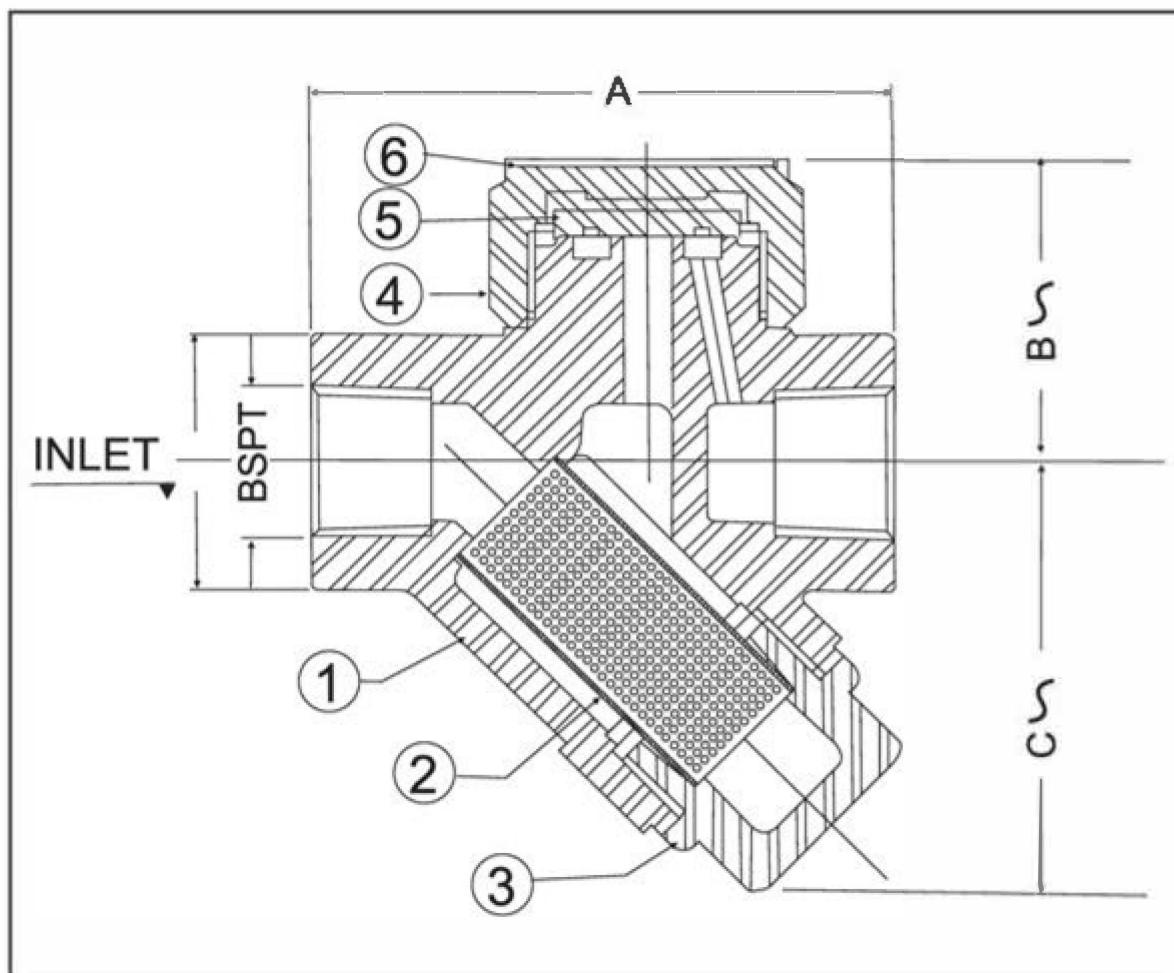
DESCRIPTION :

'WJ' STAINLESS STEEL (INVESTMENT CAST) THERMO DYNAMIC STEAM TRAP with S.S. (AISI-420) working parts and S.S. (AISI-304) Strainer. Screwed Female BSPT Thread / Socket Weld Ends.

Body Test Pressure : 63.28 kg/cm² Hyd.
Max. B.O.P. : 31.64 Kg/cm² Steam.
Max. Temp. : 425°C (800°F).

TESTING AND CERTIFICATION :

All Traps are Tested Hyd. at Double the max. Working Pressure. Each Trap is Tested on Steam Line to see its Performance. Each Trap is supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.



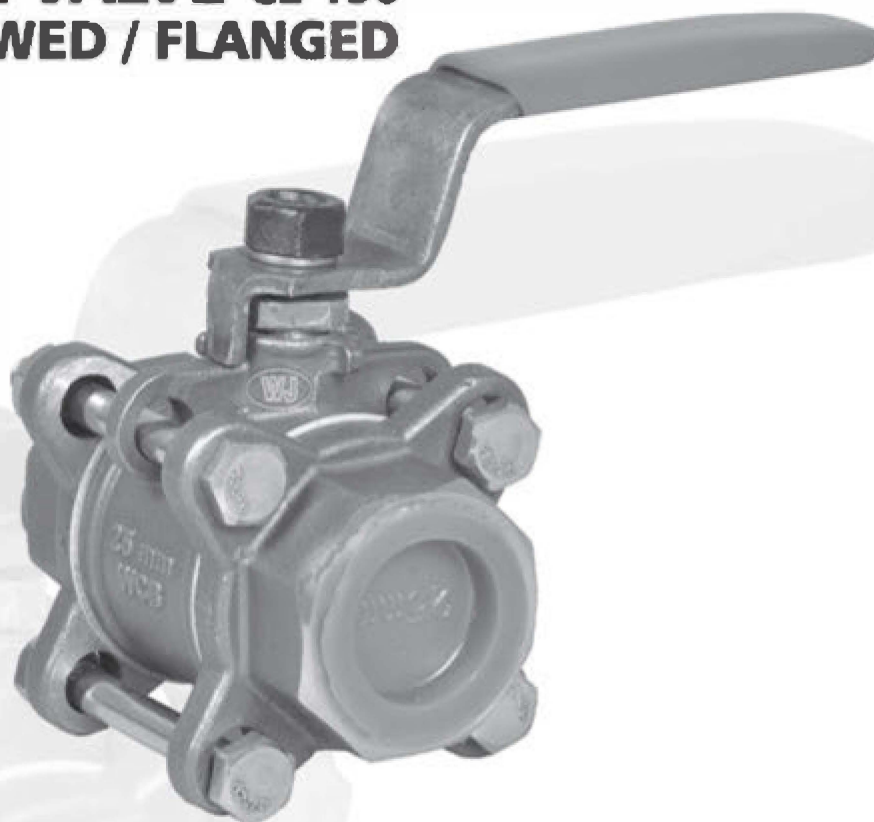
Nominal	Dimensions		
	A	B	C
15mm (½")	78	40	58
20mm (¾")	78	40	58
25mm (1")	89	48	73

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	S.S.	AISI-420
2.	Strainer Screen	S.S.	AISI-304
3.	Strainer Cap	S.S.	AISI-420
4.	Body Cap	S.S.	AISI-420
5.	Disc	S.S.	AISI-420
6.	Name Plate	Aluminium	~~~~~



CAST STEEL

BALL VALVE CL-150 SCREWED / FLANGED



SMOOTH PERFORMANCE, TROUBLE FREE SERVICE

DESCRIPTION :

'WJ' CAST CARBON STEEL BALL VALVE CL-150. Three Piece Design. (A-216 Gr. WCB) Lever Operated. Screwed Female BSPT Threads & Flanged Ends to ASMEB-16.5 CL-150, Raised Face. Full Bore, Side Entry, Blow Out Proof Stem and Floating Ball Design.

Body Test Pressure : 30 Bar Gauge &
Seat 20 Bar Gauge (Hyd.).

Max. Temp. : 260°C (500°F).

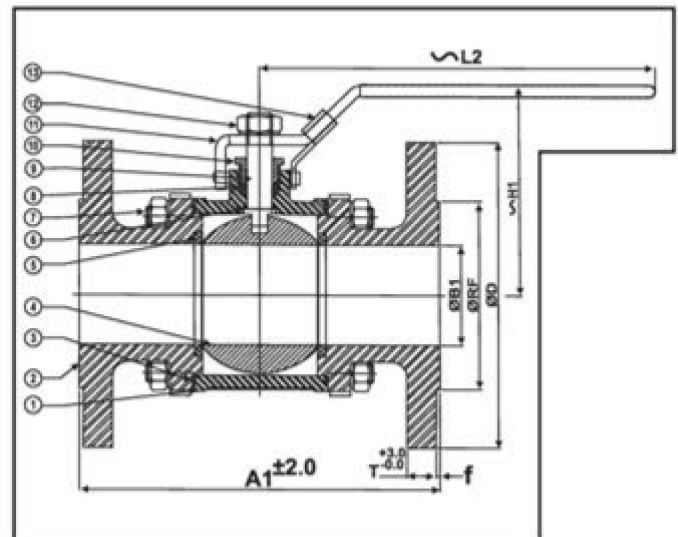
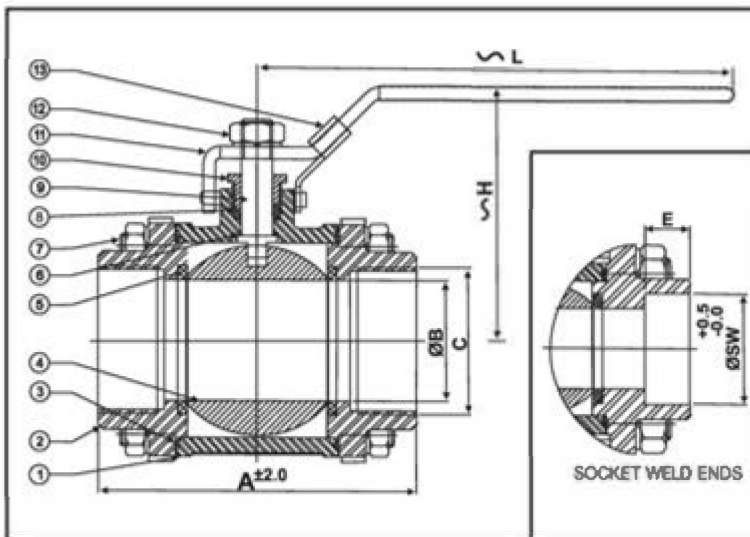
SALIENT FEATURES :

1. Full Bore : Provide extreme Low Pressure Loss.
2. Split Body Construction : Easy Maintenance.
3. Side Entry Design.
4. Blow Out Proof Stem : Provides Best Possible Stem Sealing Arrangement.
5. Floating Ball Design : Ensure High Sealing Efficiency at Different Working Pressure.
6. Asbestos Free.
7. Reduces Leakage through the Joint During Fire.

TESTING AND CERTIFICATION :

Each Valve is Tested Hyd. at the Specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.

NOTE : Other Forms of Threads can be Provided on Request.



Valve Size	Standard Dimensions						
	A ± 2.0	ØB	C	H	L	ØSW	E
15mm (1/2")	68	14	1/2" BSP	53	125	21.7	11
20mm (3/4")	73	19	3/4" BSP	56	125	27	14
25mm (1")	89	24.5	1" BSP	63	155	33.8	14
32mm (1 1/4")	105	31.5	1 1/4" BSP	86	155	42.5	14
40mm (1 1/2")	116	37	1 1/2" BSP	94	195	48.6	14
50 mm (2")	130	49	2" BSP	104	195	61.1	17

Valve Size	Standard Dimensions							
	A1 ± 2.0	ØB1	H1	L2	ØD	ØRF	T	f
15mm (1/2")	108	14	61	125	90	34.9	8	2
20mm (3/4")	118	19	64	125	100	42.9	8.9	2
25mm (1")	127	24.5	71	155	110	50.8	9.6	2
32mm (1 1/4")	140	31.5	86	155	115	63.5	11.2	2
40mm (1 1/2")	165	37	94	195	125	73	12.7	2
50 mm (2")	178	49	104	195	150	92.1	14.3	2
65 mm (2 1/2")	191	62	153	250	180	104.8	15.9	2
80 mm (3")	203	74	162	250	190	127	17.5	2
100 mm (4")	229	98	180	290	230	157.2	22.3	2

MATERIALS

PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	C.S.	ASTM A216 Gr. WCB
2.	Body Connector	C.S.	ASTM A216 Gr. WCB
3.	Body Seal	P.T.F.E.	-----
4.	Ball	S.S.	AISI-304
5.	Seat	P.T.F.E.	-----
6.	Stem Seal	P.T.F.E.	-----
7.	Stud & Nut with SP. Washer	S.S.	-----
8.	Gland Seal	P.T.F.E.	-----
9.	Stem	S.S.	AISI-410, AISI-304
10.	Gland	S.S.	AISI-410
11.	Handle with Plastic Sleeve	M.S. / S.S.	-----
12.	Nut with SP. Washer	S.S.	-----
13.	Locking Clamp	S.S.	-----



NETA VALVES PVT. LTD.

CAST STEEL

RELIEF VALVE

SMOOTH FLOW AT VARIOUS PRESSURES

DESCRIPTION :

'WJ' CAST STEEL SPRING LOADED RELIEF VALVE
Flange Ends to BS-4504 Part-I Table 40/1/DIN 2545
PN-40 Raised Face with 13% Cr. S.S. (AISI-410) Trim.
Max. Set Pressure of 10.54 Kg/Cm². Body Tested to 60
Kg/Cm². Hydrostatic Pressure. Max. Temp.-200°C.

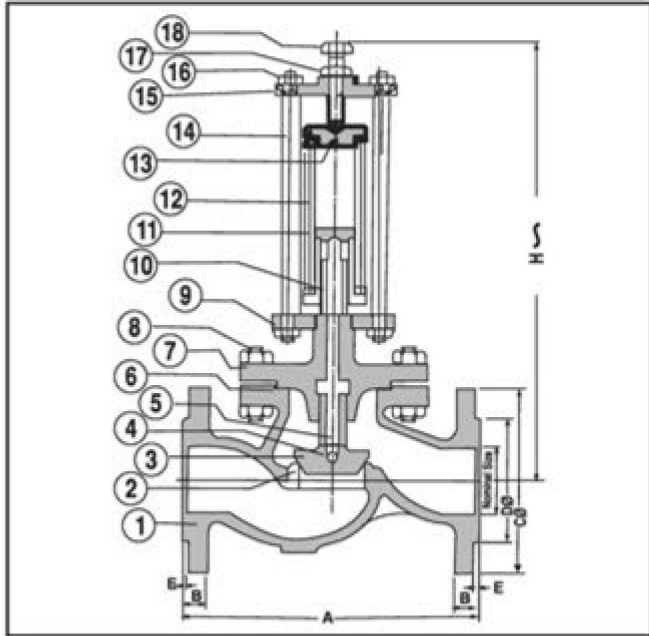
These relief valves are suitable for hot oil.

SALIENT FEATURES :

1. Stream lined full flow area is provided in the body to minimise Pressure drop.
2. Renewable 13% Cr. S.S. (AISI-410) Body Seat Ring and Disc. have at least 50 HB difference in Hardness.

These RELIEF VALVES are supplied with our own
Works Test Certificate.





DIMENSIONS						
Nominal Size DN	A	B	C	D	E	H
DN 40 (1½")	200	18	150	88	3	300
DN 50 (2")	230	20	165	102	3	310
DN 65 (2½")	290	22	185	122	3	440
DN 80 (3")	310	24	200	138	3	460
DN 100 (4")	350	24	235	162	3	500

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Cast Steel	ASTM A216 Gr. WCB
2.	Body Seat Ring	S.S. 13% Cr.	AISI-410
3.	Valve Disc	S.S./Cast S.S.	AISI-410/ASTM A351 CF8
4.	Ball	S.S.	AISI-304
5.	Stem	S.S. 13% Cr.	AISI-410
6.	Gasket	S.S. (AISI-304)	Spiral wound Asbestos Filled
7.	Cover	Cast Steel	ASTM A216 Gr. WCB
8.	Studs & Nuts	Carbon Steel	---
9.	Bottom Plate	M.S.	---
10.	O-Ring	Silicon Rubber	---
11.	Sleeve	S.S. 13% Cr.	AISI-410
12.	Spring	Carbon Steel	IBR-307 + 314
13.	Spring Disc	M.S.	----
14.	Pillar	M.S.	----
15.	Top Plate	M.S.	----
16.	Nuts	Carbon Steel	----
17.	Lock Nut	Carbon Steel	----
18.	Adjusting Screw	Carbon Steel	----



FORGED STEEL

GLOBE VALVE CL-800

STOUT & STURDY WORKING

DESCRIPTION :

WJ FORGED STEEL GLOBE VALVE CL-800 (ASTMA-105) To BSEN-15761, API-602. Bolted Bonnet, Yoke Type, Rising Stem, Outside Screw. 13% Cr. SS (AISI-410) Trim. Plug Type Disc. Screwed Female Ends to BSPT Taper Threads. And Socket Weld Ends Full Bore as well as Reduced Bore. Body Tested to 207 Bar Gauge Hyd. Seat and Back Seat. Tested to 152 Bar Gauge Hyd. and 6.9 Bar Gauge Air. Max. Temp. 425°C (800°F)

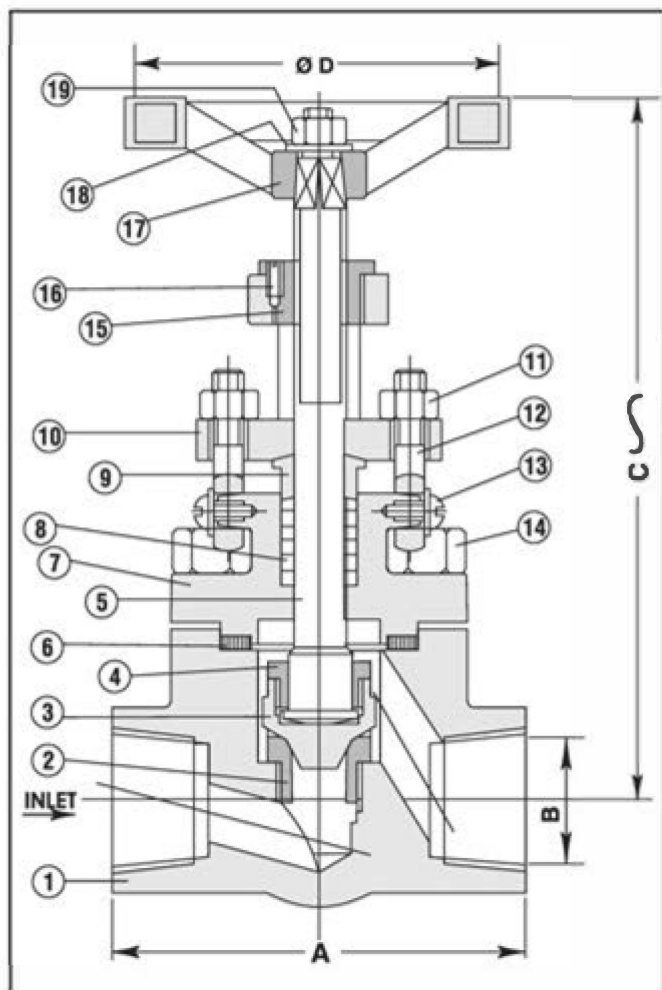
SALIENT FEATURES :

1. Renewable 13% Cr. SS (AISI-410) Body Seat Ring and Disc. have atleast 50 HB difference in Hardness.
2. Bolted self aligning two piece gland is provided.
3. Back Seat provision is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
4. Ample depth of stuffing box is provided.
5. Sturdy hand wheel is provided for easy operation of the Valve.

TESTING AND CERTIFICATION :

Each Valve is Tested Hyd. at the specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





Nominal Size	DIMENSIONS							
	FULL BORE				REDUCE BORE			
	A	B	C	D	A	B	C	D
10 mm (3/8")	80	3/8" BSPT	138	76	----	----	----	----
15 mm (1/2")	86	1/2" BSPT	145	76	80	1/2" BSPT	138	76
20 mm (3/4")	100	3/4" BSPT	155	100	86	3/4" BSPT	145	76
25 mm (1")	125	1" BSPT	182	120	100	1" BSPT	155	100
32 mm (1 1/4")	145	1 1/4" BSPT	230	150	125	1 1/4" BSPT	182	120
40 mm (1 1/2")	165	1 1/2" BSPT	265	150	145	1 1/2" BSPT	230	150

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	F.S.	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Valve Disc	S.S.	AISI-410
4.	Disc Retaining Nut	S.S.	AISI-410
5.	Stem	S.S.	AISI-410
6.	Gasket	S.S. Type 304 Spiralwound Asbestos Filler	-----
7.	Bonnet	F.S.	ASTM A-105
8.	Packing	Graphited Asbestos	-----
9.	Gland	S.S.	AISI-410
10.	Gland Flange	F.S.	ASTM A-105
11.	Nut for Eye Bolts	H.T. Steel	ASTM A -194-2H
12.	Eye Bolts	S.S.	AISI-410
13.	Screw with Washer	M.S.	-----
14.	Studs and Nuts	Alloy Steel / H.T. Steel	ASTM A-193 B7 / ASTM A-194 2H
15.	Yoke Bush	S.S.	AISI-410
16.	Locking Screw	Steel	-----
17.	Hand Wheel	M.I.	-----
18.	Washer	M.S.	-----
19.	Nut for Hand Wheel	M.S.	-----



FORGED STEEL

GATE VALVE CL-800

SMOOTH PERFORMANCE, TROUBLE FREE SERVICE

DESCRIPTION :

'WJ' FORGED STEEL GATE VALVE CL-800 (ASTMA-105) To BSEN-15761, API-602. Bolted Bonnet, Yoke Type, Rising Stem, Outside Screw. 13% Cr. SS (AISI-410) Trim. Solid Wedge, Screwed Female Ends to BSPT Threads and Socket Weld Ends Body Tested to 207 Bar Gauge Hyd. Seat and Back Seat. Tested to 152 Bar Gauge Hyd. and 6.9 Bar Gauge Air. Max. Temp. 425°C (800°F)

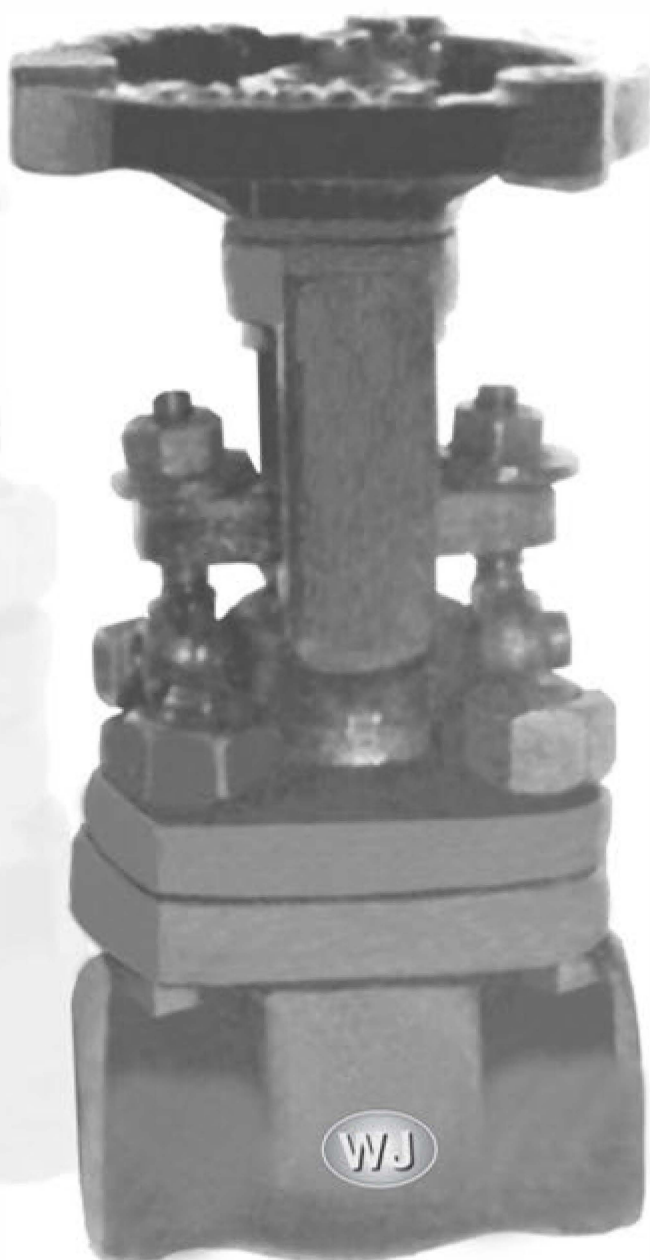
These Valves are manufactured in Full Bore as well as Reduced Bore.

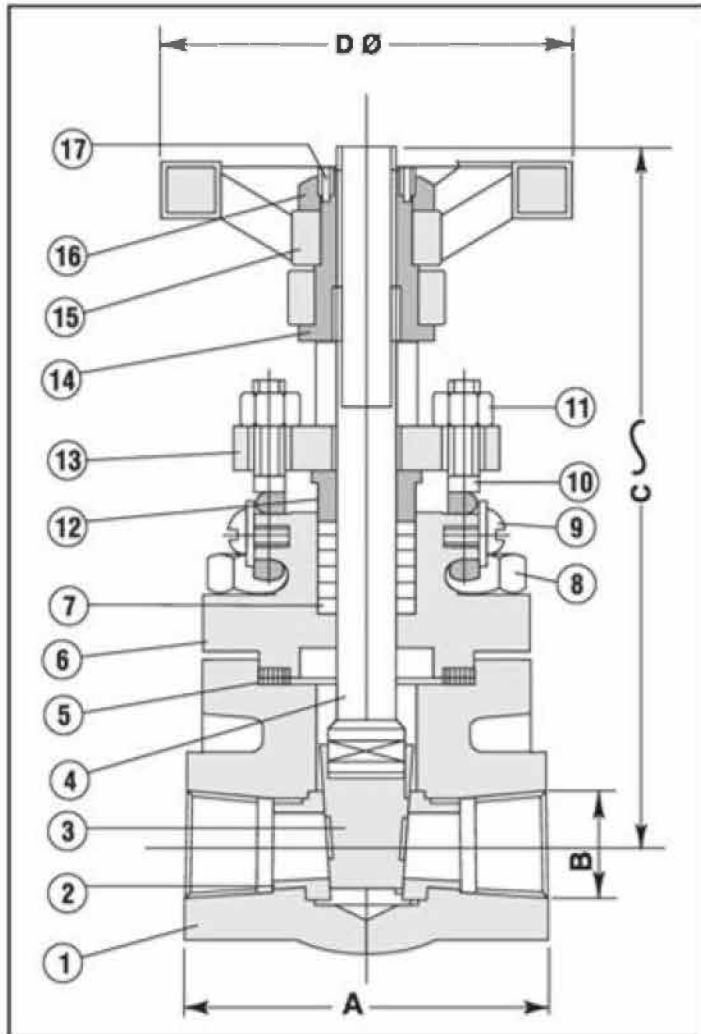
SALIENT FEATURES :

1. Renewable 13% Cr. SS (AISI-410) Body Seat Ring and wedge have atleast 50 HB difference in Hardness.
2. Bolted self aligning Two Piece Gland is provided.
3. Back Seat provision is provided to facilitate on line Replacement to gland packing under Pressure when valve is fully open.
4. Ample depth of stuffing box is provided.
5. Sturdy Hand wheel is provided for easy operation of Valve.

TESTING AND CERTIFICATION :

Each Valve is Tested Hyd. at the specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





Nominal Size	DIMENSIONS							
	FULL BORE				REDUCE BORE			
	A	B	C	D	A	B	C	D
10 mm (3/8")	80	3/8" BSPT	135	80	----	----	----	----
15 mm (1/2")	86	1/2" BSPT	145	80	80	1/2" BSPT	135	80
20 mm (3/4")	100	3/4" BSPT	155	100	86	3/4" BSPT	145	80
25 mm (1")	125	1" BSPT	180	120	100	1" BSPT	155	100
32 mm (1 1/4")	145	1 1/4" BSPT	225	150	125	1 1/4" BSPT	180	120
40 mm (1 1/2")	170	1 1/2" BSPT	245	150	145	1 1/2" BSPT	225	150

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	F.S.	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Wedge	S.S.	AISI-410
4.	Stem	S.S.	AISI-410
5.	Gasket	S.S. Type 304 Spiralwound Asbestos Filler	
6.	Bonnet	F.S.	ASTM A-105
7.	Packing	Graphited Asbestos	----
8.	Studs & Nuts	Alloy Steel / H.T. Steel	ASTM A-193-B7 / ASTM A-194 2H
9.	Screw with Washer	M.S.	-----
10.	Eye Bolts	S.S.	AISI-410
11.	Nut for Eye Bolts	H.T. Steel	ASTM A -194-2H
12.	Gland	S.S.	AISI-410
13.	Gland Flange	F.S.	ASTM A-105
14.	Yoke Sleeve	S.S.	AISI-410
15.	Hand Wheel	M.I.	----
16.	Check Nut	S.S.	AISI-410
17.	Locking Screw	Steel	----



FORGED STEEL

HORIZONTAL

LIFT CHECK VALVE CL-800

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' FORGED STEEL HORIZONTAL LIFT CHECK VALVE CL-800 To API-602, BSEN-15761. Bolted Bonnet, 13% Cr. S.S. (AISI-410) Trim. Plug Type Disc. Screwed Female Ends to BSPT. Threads/ Socket Weld Ends.

Body Tested 207 Bar Gauge Hyd.

Seat Tested 152 Bar Gauge Hyd.

Max. Temp. 425°C (800°F).

These valves are manufactured in Full Bore as well as Reduced Bore.

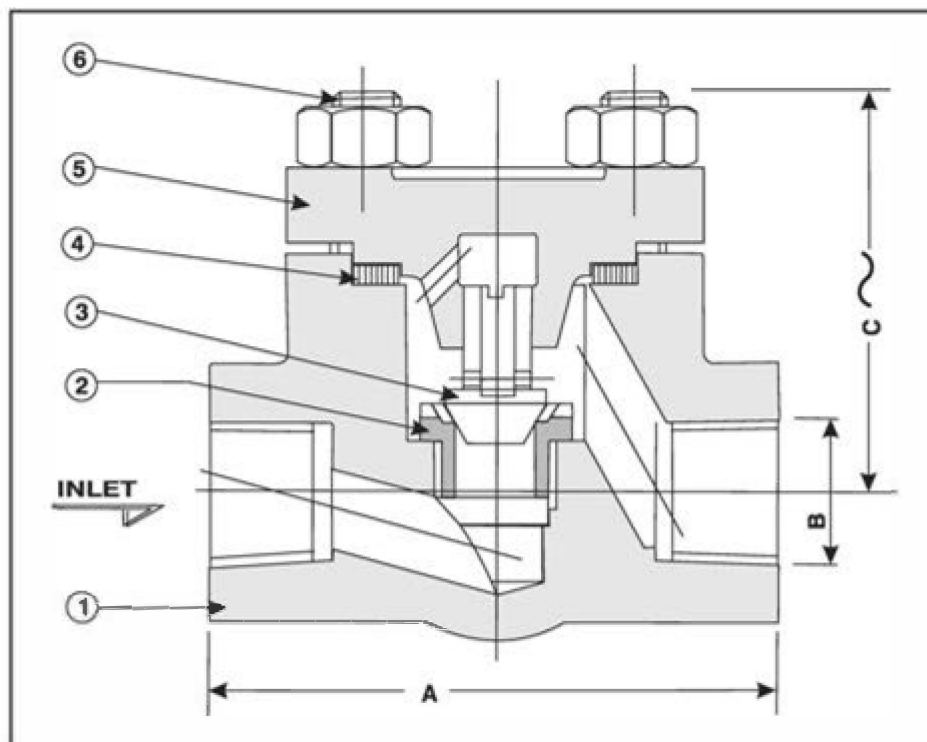
SALIENT FEATURES :

Renewable 13% Cr. SS (AISI-410) Body Seat Ring and Disc have atleast 50 HB difference in hardness.

TESTING AND CERTIFICATION :

Each Valve is Tested Hydrostatically at the Specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





Nominal Size	DIMENSIONS					
	FULL BORE			REDUCE BORE		
	A	B	C	A	B	C
10 mm (3/8")	80	3/8" BSPT	60	---	---	---
15 mm (1/2")	86	1/2" BSPT	60	80	1/2" BSPT	60
20 mm (3/4")	100	3/4" BSPT	73	86	3/4" BSPT	60
25 mm (1")	125	1" BSPT	85	100	1" BSPT	73
32 mm (1 1/4")	145	1 1/4" BSPT	100	125	1 1/4" BSPT	85
40 mm (1 1/2")	165	1 1/2" BSPT	120	145	1 1/2" BSPT	100

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Forged Steel	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Valve Disc	S.S.	AISI-410
4.	Gasket	S.S. Type 304 Spiralwound Asbestos Filler	----
5.	Bonnet	Forged Steel	ASTM A-105
6.	Studs and Nuts	Alloy Steel / H.T. Steel	ASTM A-193 B7 / ASTM A-194 2H



FORGED STEEL

GLOBE VALVE CL-1500

STOUT & STURDY WORKING

DESCRIPTION :

'WJ' FORGED STEEL GLOBE VALVE CL-1500 (ASTMA-105) To BSEN-15761, API-602. Bolted Bonnet, Yoke Type, Rising Stem, Outside Screw. 13% Cr. SS (AISI-410) Trim. Plug Type Disc. Screwed Female Ends to BSPT Taper Threads and Socket Weld Ends. Full Bore. Body Tested to 383 Bar Gauge Hyd. Seat and Back Seat. Tested to 281 Bar Gauge Hyd. and 6.9 Bar Gauge Air. Max. Temp. 425°C (800°F)

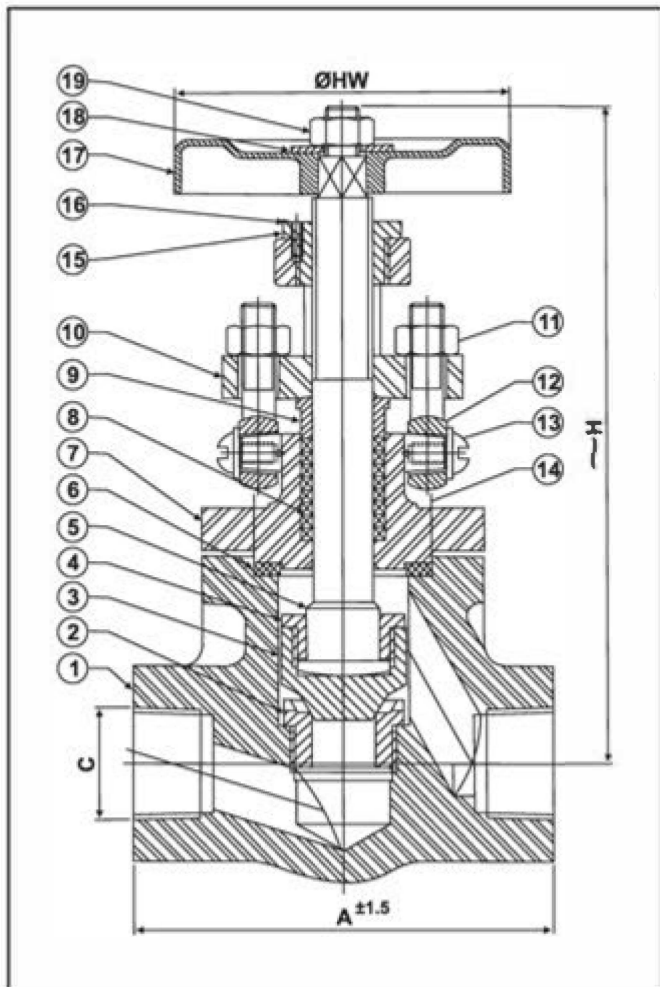
SALIENT FEATURES :

1. Renewable 13% Cr. SS (AISI-410) Body Seat Ring and Disc. have atleast 50 HB difference in Hardness.
2. Bolted self aligning two piece gland is provided.
3. Back Seat provision is provided to facilitate on line replacement of gland packing under pressure when valve is fully open.
4. Ample depth of stuffing box is provided.
5. Sturdy hand wheel is provided for easy operation of the Valve.

TESTING AND CERTIFICATION :

Each Valve is Tested Hyd. at the specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	STANDARD			
	A ±1.5	C	~H	Ø HW
15 mm (½")	86	¾" BSPT	145	80
20 mm (¾")	100	¾" BSPT	156	80
25 mm (1")	125	1" BSPT	186	130
32 mm (1 ¼")	140	1 ¼" BSPT	233	130
40 mm (1 ½")	165	1 ½" BSPT	251	150

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	F.S.	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Valve Disc	S.S.	AISI-410
4.	Disc Retaining Nut	S.S.	AISI-410
5.	Stem	S.S.	AISI-410
6.	Gasket	S.S. Type 304 Spiralwound Asbestos Filler	-----
7.	Bonnet	F.S.	ASTM A-105
8.	Packing	Graphited Asbestos	-----
9.	Gland	S.S.	AISI-410
10.	Gland Flange	F.S.	ASTM A-105
11.	Nut for Eye Bolts	H.T. Steel	ASTM A -194-2H
12.	Eye Bolts	S.S.	AISI-410
13.	Screw with Washer	M.S.	-----
14.	Studs and Nuts	Alloy Steel / H.T. Steel	ASTM A-193 B7 / ASTM A-194 2H
15.	Yoke Bush	S.S.	AISI-410
16.	Locking Screw	Steel	-----
17.	Hand Wheel	M.I.	-----
18.	Washer	M.S.	-----
19.	Nut for Hand Wheel	M.S.	-----



NETA VALVES PVT. LTD.

FORGED STEEL

GATE VALVE CL-1500

SMOOTH PERFORMANCE, TROUBLE FREE SERVICE

DESCRIPTION :

'WJ' FORGED STEEL GATE VALVE CL-1500 (ASTMA-105) To BSEN-15761, API-602. Bolted Bonnet, Yoke Type, Rising Stem, Outside Screw. 13% Cr. SS (AISI-410) Trim, Solid Wedge, Screwed Female Ends to BSPT Threads and Socket Weld Ends. Body Tested to 383 Bar Gauge Hyd. Seat and Back Seat. Tested to 281 Bar Gauge Hyd. and 6.9 Bar Gauge Air. Max. Temp. 425°C (800°F)

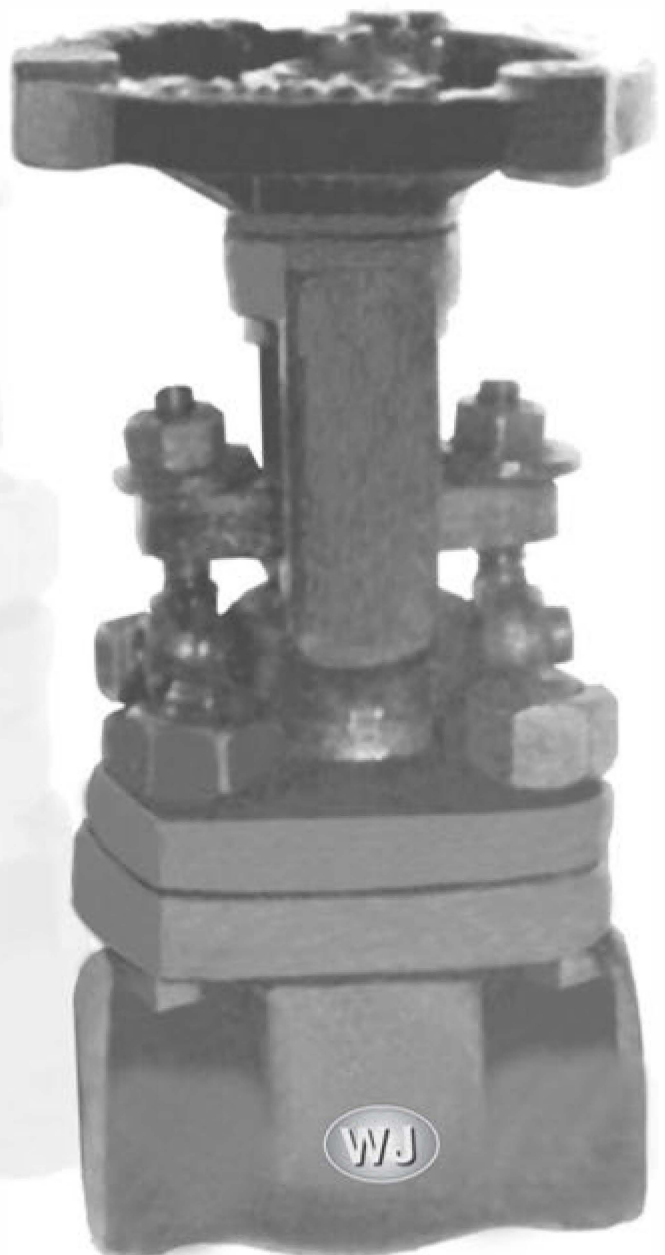
These Valves are manufactured in Full Bore.

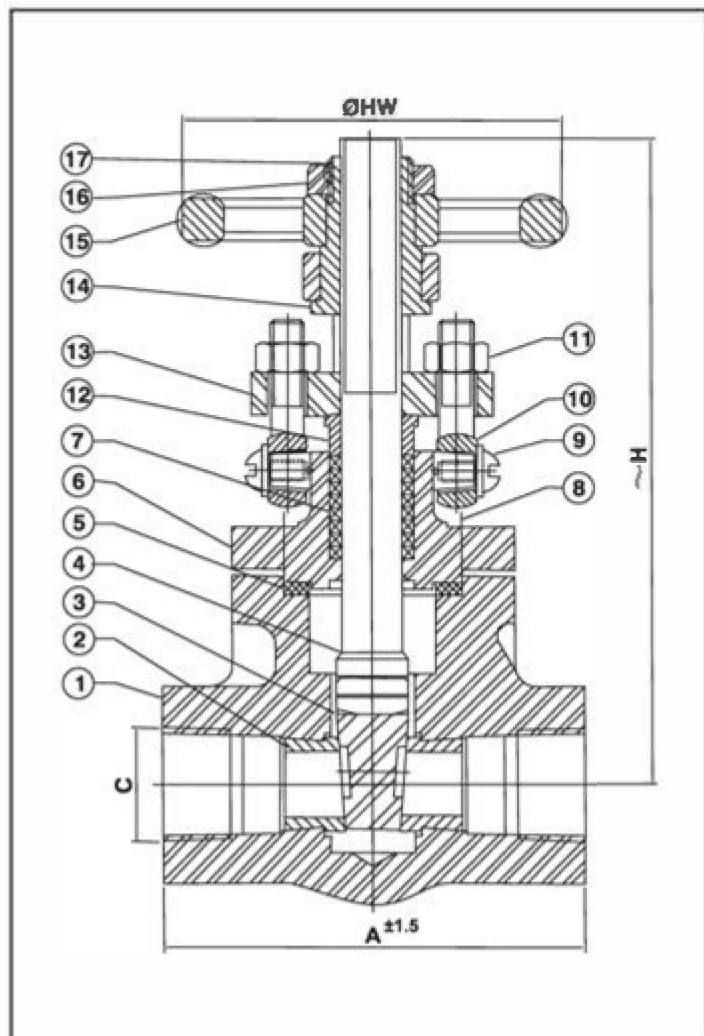
SALIENT FEATURES :

1. Renewable 13% Cr. SS (AISI-410) Body Seat Ring and wedge have atleast 50 HB difference in Hardness.
2. Bolted self aligning Two Piece Gland is provided.
3. Back Seat provision is provided to facilitate on line Replacement to gland packing under Pressure when valve is fully open.
4. Ample depth of stuffing box is provided.
5. Sturdy Hand wheel is provided for easy operation of Valve.

TESTING AND CERTIFICATION :

Each Valve is Tested Hyd. at the specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS				
Nominal Size	STANDARD			
	A ±1.5	C	~H	Ø HW
15 mm (½")	86	½" BSPT	145	90
20 mm (¾")	90	¾" BSPT	152	90
25 mm (1")	125	1" BSPT	177	115
32 mm (1¼")	140	1¼" BSPT	227	115
40 mm (1½")	165	1½" BSPT	246	150

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	F.S.	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Wedge	S.S.	AISI-410
4.	Stem	S.S.	AISI-410
5.	Gasket	S.S. Type 304 Spiralwound Asbestos Filled	----
6.	Bonnet	F.S.	ASTM A-105
7.	Packing	Graphited Asbestos	----
8.	Studs & Nuts	Alloy Steel / H.T. Steel	ASTM A-193-B7 / ASTM A-194 2H
9.	Screw with Washer	M.S.	-----
10.	Eye Bolts	S.S.	AISI-410
11.	Nut for Eye Bolts	H.T. Steel	ASTM A -194-2H
12.	Gland	S.S.	AISI-410
13.	Gland Flange	F.S.	ASTM A-105
14.	Yoke Sleeve	S.S.	AISI-410
15.	Hand Wheel	M.I.	----
16.	Check Nut	S.S.	AISI-410
17.	Locking Screw	Steel	----



FORGED STEEL

HORIZONTAL LIFT CHECK VALVE CL-1500

DESIGNED TO WORK UNDER VARIED CONDITIONS

DESCRIPTION :

'WJ' FORGED STEEL HORIZONTAL LIFT CHECK VALVE CL-1500 To API-602, BSEN-15761. Bolted Bonnet, 13% Cr. S.S. (AISI-410) Trim. Plug Type Disc. Screwed Female Ends to BSPT. Threads / Socket Weld Ends.

Body Tested 383 Bar Gauge Hyd.

Seat Tested 281 Bar Gauge Hyd. 6.9 Bar Gauge Air.

Max. Temp. 425°C (800°F).

These valves are manufactured in Full Bore.

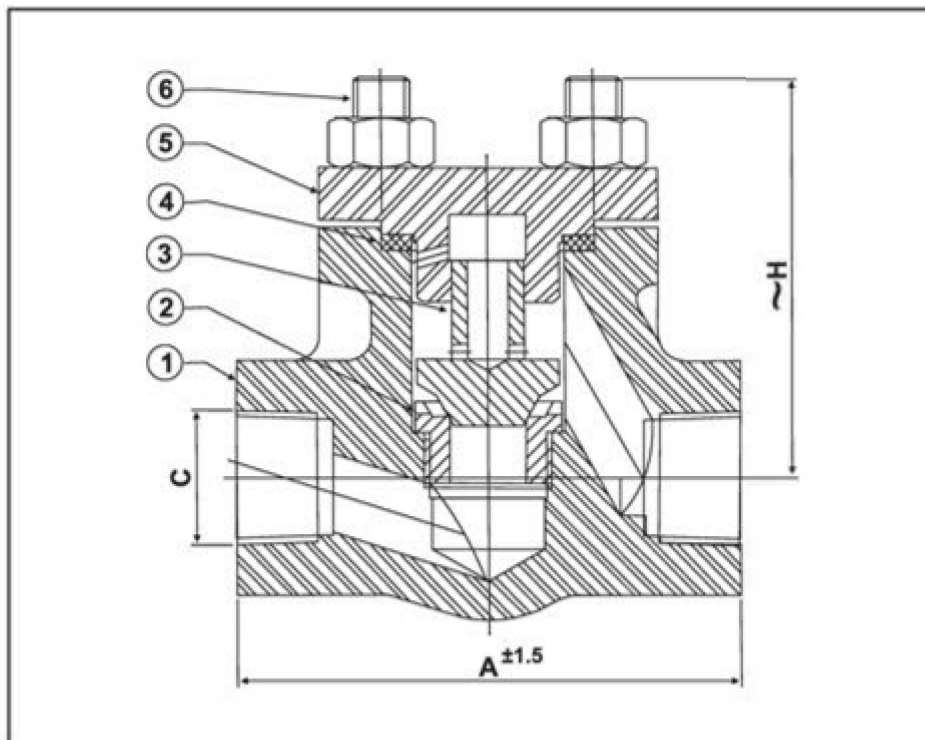
SALIENT FEATURES :

Renewable 13% Cr. SS (AISI-410) Body Seat Ring and Disc have atleast 50 HB difference in hardness.

TESTING AND CERTIFICATION :

Each Valve is Tested Hydrostatically at the Specified Pressure. These Valves are supplied with IBR Test Certificate in Form III-C issued by The Director of Boilers, Punjab.





DIMENSIONS			
Nominal Size	STANDARD		
	A ±1.5	C	~H
15 mm (½")	86	½" BSPT	65
20 mm (¾")	100	¾" BSPT	78
25 mm (1")	125	1" BSPT	92
32 mm (1¼")	140	1¼" BSPT	107
40 mm (1½")	165	1½" BSPT	117

MATERIALS			
PART No.	NAME OF PART	MATERIAL	SPECIFICATION
1.	Body	Forged Steel	ASTM A-105
2.	Body Seat Ring	S.S.	AISI-410
3.	Valve Disc	S.S.	AISI-410
4.	Gasket	S.S. Type 304 Spiralwound Asbestos Filled	----
5.	Cover	Forged Steel	ASTM A-105
6.	Studs and Nuts	Alloy Steel / H.T. Steel	ASTM A-193 B7 / ASTM A-194 2H