

CAST STEEL

GATE VALVE

**STOUT & STURDY,
SMOOTH PERFORMANCE**

DESCRIPTION :

'WJ' Cast Steel Gate Valve to BS-1414-1975 Outside Screw and Yoke Type, Bolted Bonnet, 13% Cr. S.S. (AISI-410) Trim, Solid Wedge Disc, Flanges as per BS-1560/ANSI-B 16.5. Raised Face are manufactured in Cl.150, Cl.300 & 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.

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.

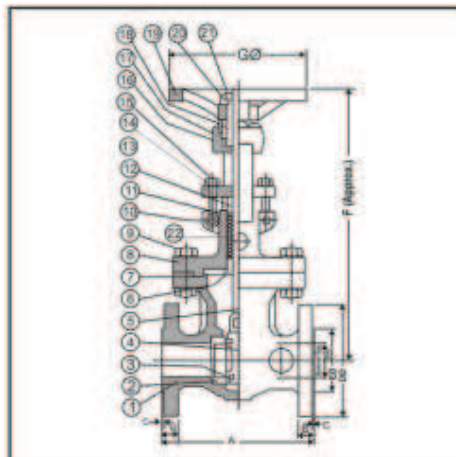
TESTING AND CERTIFICATION :

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



NOTE :

Class 150 & 300 Flanges are Furnished with 1.6mm Raised Face which is included in the min. Flange Thickness (B). Class 600 Flanges are furnished with 6.4mm Raised Face which is additional to the Flange Thickness (B).

DIMENSIONS

Nominal Size	A			B			C			D			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	Class 150	Class 300	Class 600	Class 150	Class 300	Class 600
40 mm (1 1/2")	165	190	241	14.3	20.6	22.2	1.6	1.6	6.4	127	156	156	73	73	73	260	295	305	150	150	180
50 mm (2")	178	216	292	16	22.2	25.4	1.6	1.6	6.4	152	165	165	92	92	92	318	344	352	150	180	180
65 mm (2 1/2")	190	241	330	17.5	25.4	28.6	1.6	1.6	6.4	178	190	190	105	105	105	370	400	430	180	200	250
80 mm (3")	203	283	356	19	28.6	31.8	1.6	1.6	6.4	190	210	210	127	127	127	400	452	465	200	240	250
100 mm (4")	229	305	432	23.8	31.8	38.1	1.6	1.6	6.4	229	254	273	157	157	157	500	530	592	250	250	300
125 mm (5")	254	381	---	23.8	34.9	---	1.6	1.6	---	254	279	---	186	186	---	660	628	---	300	300	---
150 mm (6")	267	403	559	25.4	36.5	47.6	1.6	1.6	6.4	279	318	356	216	216	216	662	700	940	300	350	500
200 mm (8")	292	419	660	28.6	41.3	55.6	1.6	1.6	6.4	343	381	419	270	270	270	900	1000	1015	350	400	550
250 mm (10")	330	457	---	30.2	47.6	---	1.6	1.6	---	406.5	444	---	324	324	---	985	1195	---	400	450	---
300 mm (12")	356	502	---	31.8	50.8	---	1.6	1.6	---	483	521	---	381	381	---	1133	1290	---	400	450	---

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 Class 150 Gasket Class 300, Class 600	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	Bronze	-----
17.	Yoke Sleeve Retaining Nut	Bronze	-----
18.	Locking Screw	M.S.	-----
19.	Hand Wheel	C.I. M.I.	IS 210 FG 200 IS 2108 Gr. BM 290
20.	Hand Wheel Nut	G.M.	-----
21.	Locking Screw	M.S.	-----
22.	Lantern Ring	S.S.	AISI-410