IS-1 Leaded Tin Bronze Gate Valve Class 1, Screwed Ends

Description



- NETA Leaded Tin Bronze (IS:318 Gr. LTB2) Gate Valve
- IS:778/84 Amendment Nos. 1 and 2, Class 1
- Screwed in Bonnet
- Inside Screw
- Non-Rising Stem
- Integral Seats
- Solid Wedge
- Screwed Female Ends conforming to IS:554 Parallel Threads
- Handwheel Operated

Test Pressure

Hydraulic Test Pressure
– Body : 1.5 MPa
– Seat : 1.0 MPa
– Back Seat : 1.0 MPa

Design Features

- The design of the Valve body is such that it provides ample resistance to distortion under the maximum cold working pressure.
- Back Seat arrangement permits the replacement of the gland packing in fully open position while the Valve is under line pressure.
- Stuffing box is of ample depth for filling Gland packing.
- Gland is of two piece design consisting of a sleeve sliding in the stuffing box secured by a screwed hexagonal gland nut.
- Minimum Flow way area through and between the ports of the Valve is not less than area of the circle equal to the nominal size of the Valve.
- The ends of the Screwed Valves are in the form of hexagon to facilitate wrenching. The threading at the ends confirm to IS:554-1975 female threads. Other types of threads can be provided if specified in the purchase order.
- The stuffing box is incorporated as separate component screwed into the bonnet for Non Rising Stem Gate Valves. The two piece design of the bonnet gives easy accessibility to the parts while making replacement.

Certification

A certificate shall be furnished stating that the Valves supplied conform to IS:778 – 1984 Amendment No.1 & 2.

Application : Water

HSN : 84818020

Materials

PNo.	Part	Nos.	Material	Standard
1	Set Screw / Bolt	1	M.S.	IS:1367
2	Washer	1	M.S.	IS:226
3	Handwheel	1	C.I. / M.S.	IS:210 Gr.FG200 / IS:226
4	Stem	1	Brass	IS:6912 Gr.FLB
5	Gland Nut	1	G.M.	IS:318 Gr.LTB2
6	Gland	1	G.M.	IS:318 Gr.LTB2
7	Gland Packing	–	Asbestos	IS:4687
8	Stuffing Box	1	G.M.	IS:318 Gr.LTB2
9	Bonnet	1	G.M.	IS:318 Gr.LTB2
10	Wedge	1	G.M.	IS:318 Gr.LTB2
11	Body	1	G.M.	IS:318 Gr.LTB2

Dimensions

IS:778 MARKED

Nominal Size (Inches)	Nominal Size (mm)	L ±1.5	H App.	W App	T - BSP Parallel Thread
1/2	15	60	107	54	1/2
3/4	20	60	115	60	3/4
1	25	70	135	76	1
1.1/4	32	80	145	76	1.1/4
1.1/2	40	90	170	90	1.1/2
2	50	100	193	108	2
2.1/2	65	105	230	118	2.1/2
3	80	125	247	130	3
4	100	160	295	163	4

