

## IS-2 Leaded Tin Bronze Gate Valve Class 1, Flanged Ends

### Description

- NETA Leaded Tin Bronze (IS:318 Gr. LTB2) Gate Valve
- IS:778/84 Amendment Nos. 1 & 2, Class 1
- Screwed in Bonnet
- Inside Screw
- Non-Rising Stem
- Integral Seats
- Solid Wedge
- Flanged Ends
- 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.
- Flanged Ends Valves have integral flanges machined flat as per Table 7.1.4.1 of IS:778-1984 Amendment No. 1 & 2. Flange Dimensions of flanges other than above mentioned table can be supplied if required by the purchaser. Flanges can be supplied undrilled or drilled as 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**

| Nominal Size (Inches) | Nominal Size (mm) | L ±1.5 | H App. | W App |
|-----------------------|-------------------|--------|--------|-------|
| 1/2                   | 15                | 72     | 107    | 54    |
| 3/4                   | 20                | 76     | 115    | 60    |
| 1                     | 25                | 90     | 135    | 76    |
| 1.1/4                 | 32                | 100    | 145    | 76    |
| 1.1/2                 | 40                | 110    | 170    | 90    |
| 2                     | 50                | 120    | 193    | 108   |
| 2.1/2                 | 65                | 140    | 230    | 118   |
| 3                     | 80                | 150    | 247    | 130   |
| 4                     | 100               | 190    | 295    | 163   |

