



# T. S. PUMPS AND VALVES PVT. LTD.

## CAST STEEL GATE VALVES

CLASS: 150, 300 & 600

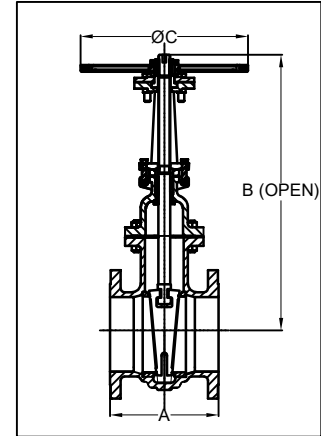
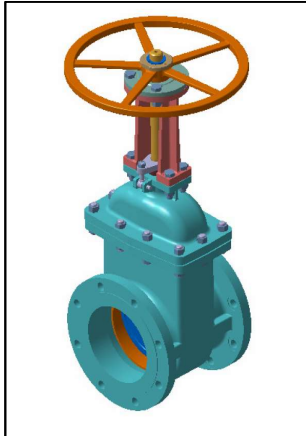
### Features

Heavy duty OS & Y type, bolted bonnet, rising stem, non rising hand wheel, renewable - seat ring for Carbon steel valves, Integral for Stainless steel valves. Valves with most advanced design features providing the ultimate in reliability.

Design Standard : API 600, BS EN ISO 15761  
Testing Standard : API 598 / BS EN 12266-1

### Test Pressure in Bar

|            | Class           | 150 | 300 | 600 |
|------------|-----------------|-----|-----|-----|
| Hydro Test | Shell           | 30  | 76  | 156 |
|            | Seat/ Back Seat | 22  | 56  | 113 |
| Air Test   | Seat            | 07  | 07  | 07  |



| Size |       | Class - 150 |      |     |      | Class - 300 |      |     |      | Class - 600 |      |     |     |
|------|-------|-------------|------|-----|------|-------------|------|-----|------|-------------|------|-----|-----|
| mm   | in    | A           | B    | ØC  | Wt*  | A           | B    | ØC  | Wt*  | A           | B    | ØC  | Wt* |
| 15   | 1/2   | 108         | 152  | 100 | 3.0  | 140         | 152  | 100 | 3.8  |             |      |     |     |
| 20   | 3/4   | 117         | 162  | 100 | 3.8  | 152         | 162  | 100 | 4.8  |             |      |     |     |
| 25   | 1     | 127         | 169  | 100 | 5.8  | 165         | 169  | 100 | 7.2  |             |      |     |     |
| 32   | 1 1/4 | 140         | 235  | 150 | 11.2 | 178         | 235  | 150 | 14.5 |             |      |     |     |
| 40   | 1 1/2 | 165         | 235  | 200 | 11.5 | 190         | 235  | 200 | 15.1 |             |      |     |     |
| 50   | 2     | 178         | 345  | 200 | 16.5 | 216         | 345  | 200 | 19   | 292         | 405  | 250 | 31  |
| 65   | 2 1/2 | 190         | 410  | 200 | 25   | 241         | 425  | 250 | 28   | 330         | 420  | 250 | 41  |
| 80   | 3     | 203         | 435  | 250 | 27   | 282         | 460  | 250 | 30   | 356         | 460  | 300 | 53  |
| 100  | 4     | 229         | 550  | 250 | 37   | 305         | 550  | 300 | 64   | 432         | 595  | 450 | 98  |
| 125  | 5     | 254         | 650  | 300 | 55   | 381         | 685  | 450 | 96   | 508         | 690  | 450 | 138 |
| 150  | 6     | 267         | 750  | 300 | 78   | 403         | 790  | 450 | 133  | 559         | 825  | 600 | 216 |
| 200  | 8     | 292         | 960  | 450 | 125  | 419         | 990  | 450 | 215  | 660         | 1065 | 600 | 361 |
| 250  | 10    | 330         | 1155 | 450 | 190  | 457         | 1230 | 600 | 368  | 787         | 1110 | ♦   | 603 |
| 300  | 12    | 356         | 1390 | 600 | 288  | 502         | 1475 | 600 | 495  | 838         | 1770 | ♦   | 830 |
| 350  | 14    | 381         | 1575 | 600 | 318  | 762         | 1310 | ♦   | 583  |             |      |     |     |
| 400  | 16    | 406         | 1710 | ♦   | 423  | 838         | 1870 | ♦   | 989  |             |      |     |     |
| 450  | 18    | 432         | 1950 | ♦   | 653  | 914         | 2035 | ♦   | 1191 |             |      |     |     |
| 500  | 20    | 457         | 2225 | ♦   | 730  | 991         | 2220 | ♦   | 1550 |             |      |     |     |
| 600  | 24    | 508         | 2560 | ♦   | 1310 | 1143        | 2550 | ♦   | 1812 |             |      |     |     |

♦ BEVEL GEAR ACTUATORS MANDATORY

All Dimensions are in "mm"

### MATERIALS

Body & Bonnet  
Wedge & Seat Ring  
Stem, Gland & Bonnet Bush  
Yoke Sleeve  
Gland Packing  
Gasket  
Stud / Nut  
Yoke & Hand Wheel  
Surface Protection for Carbon Steel Valves

ASTM A 216 Gr. WCB, ASTM A 352 Gr. LCB, ASTM Gr. A 351 Gr. CF8/CF8M/CF3/CF3M  
WCB with 13% Chrome Overlay/ ST on seal faces, ASTM A 351 Gr. CF8/CF8M/CF3/CF3M.  
ASTM A276 TYPE 410 / 304 / 316  
SG Iron / ASTM A 439 Gr.D2. (Ni Resist)  
Grafoil  
Spiral Wound 304 / 316 Grafoil  
ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H  
Carbon Steel & MI / SG Iron  
Prime Coat: Chlorine free with modified alkyd resin unobjectionable in physiological and toxicological respects. Additional external coating: Silver Streak aluminium paint

### NOTE:

- \*Net Wt in Kg. approx. (without obligation).
- Please specify flow medium, working pressure, temperature & Service conditions.
- Other materials not mentioned above & higher sizes are available on request
- Face to Face as per ASME B 16.10
- End Connections as per ASME B 16.5
- Butt-Weld End to ASME B 16.25
- Ring Joint, Large or Small tongue & Groove flanges are available on request.
- Valves can be supplied with IBR, Locking Arrangement, Jacketed, Cryogenic, Stem Extension
- Valves can be supplied with Electric, Pneumatic or Gear Actuators.
- In process of continuous improvement of products, the data given here in is subject to change

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