

## PRESSURE SEAL CAST STEEL GATE VALVE 1500Lb

### Applicable standards:

STEEL GATE VALVES, API 600/API 6D  
STEEL GATE VALVES, ISO 10434/ISO 14313  
STEEL VALVES, ASME B 16.34  
FACE TO FACE, ASME B 16.10  
END FLANGES, ASME B 16.5  
BUTTWELDING ENDS, ASME B 16.25  
INSPECTION AND TEST, API 598/API 6D

### Design description:

PSB, PRESSURE SEAL BONNET  
FLEXIBLE WEDGE, FULLY GUIDED  
CHOICE OF SOLID OR SPLIT WEDGE  
RENEWABLE SEAT RINGS  
FORGED T-HEAD STEM  
RISING STEM AND NON-RISING HANDWHEEL  
FLANGED OR BUTTWELDING ENDS  
AVAILABLE WITH BG OPERATOR

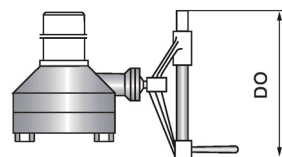
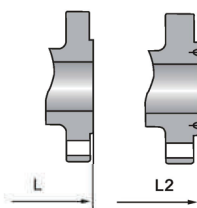
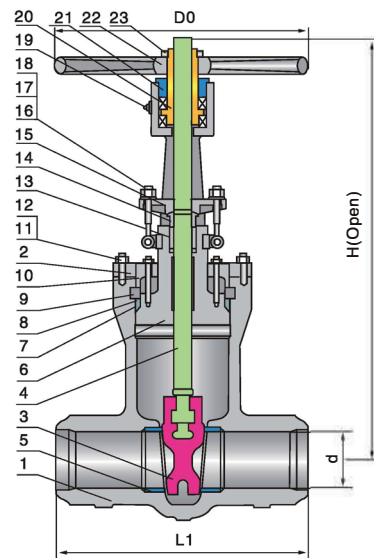
### Materials of parts

| No | Part Name                   | Carbon Steel | ASTM Material<br>1 $\frac{1}{4}$ Cr- $\frac{1}{2}$ Mo | 18Cr-9Ni-2Mo    |
|----|-----------------------------|--------------|-------------------------------------------------------|-----------------|
| 1  | Body                        | A216-WCB     | A217-WC6                                              | A351-CF8M       |
| 2  | Yoke                        | A216-WCB     | A217-WC6                                              | A351-CF8M       |
| 3  | Wedge                       | A216-WCB+HF  | A217-WC6+HF                                           | A351-CF8M+HF    |
| 4  | Stem                        | A182-F6a     | CR-MO-V                                               | A182-316        |
| 5  | Seat Ring                   | A105+HF      | A182-F11+HF                                           | A240-316+HF     |
| 6  | Bonnet                      | A105         | A182-F11                                              | A240-316        |
| 7  | Bonnet Gasket <sup>1)</sup> |              | 304+Graphite                                          |                 |
| 8  | Adapter Ring                | Carbon Steel | A276-420                                              | A276-316        |
| 9  | Retainer                    | Carbon Steel | A276-420                                              | A276-316        |
| 10 | Yoke Cap                    | Carbon Steel | Alloy Steel                                           | Stainless Steel |
| 11 | Bonnet Stud                 | A193-B7      | A193-B16                                              | A193-B8M        |
| 12 | Bonnet Stud Nut             | A194-2H      | A194-7                                                | A194-8M         |
| 13 | Packing                     |              | Graphite                                              |                 |
| 14 | Gland                       | A276-420     | A276-304                                              | A276-316L       |
| 15 | Gland Flange                | A216-WCB     | A217-WC6                                              | A351-CF8M       |
| 16 | Eyebolt Pin                 | Carbon Steel | A276-420                                              | A276-316        |
| 17 | Eyebolt                     | Carbon Steel | A193-B7                                               | A193-B8         |
| 18 | Eyebolt Nut                 | Carbon Steel | A194-2H                                               | A194-8          |
| 19 | Grease Fitting              |              | Brass+Steel                                           |                 |
| 20 | Yokesleeve                  |              | Aluminum-Bronze <sup>2)</sup>                         |                 |
| 21 | Yokesleeve Jam Nut          |              | Carbon Steel                                          |                 |
| 22 | Handwheel                   |              | Malleable Iron                                        |                 |
| 23 | Handwheel Nut               |              | Carbon Steel                                          |                 |

Note: 1). Graphite optional

2). Ductile Ni-Resist optional

3). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



### Dimensions data

| NPS<br>DN | 2<br>50 | 2 $\frac{1}{2}$<br>65 | 3<br>80 | 4<br>100 | 6<br>150 | 8<br>200 | 10<br>250 | 12<br>300 | 14<br>350 | 16<br>400 | 18<br>450 | 20<br>500 | 24<br>600 | 26<br>650 | 28<br>700 | 32<br>800 | 34<br>850 | 36<br>900 | in<br>mm |
|-----------|---------|-----------------------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|-----------|---------|-----------------------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|

### ANSI Class 1500Lb

|             |              |              |              |              |              |              |               |               |               |               |               |               |                |                |                |                |                |                |              |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| L1<br>(BW)  | 8.50<br>216  | 10.00<br>254 | 12.00<br>305 | 16.00<br>406 | 22.00<br>559 | 28.00<br>711 | 34.00<br>864  | 39.00<br>991  | 42.00<br>1067 | 47.00<br>1194 | 52.99<br>1346 | 57.99<br>1473 | 76.49<br>1943  | 80.00<br>2033  | 86.96<br>2209  | 90.00<br>2286  | 95.00<br>2413  | 100.98<br>2565 | in<br>mm     |
| L<br>(RF)   | 14.50<br>368 | 16.50<br>419 | 18.50<br>470 | 21.50<br>546 | 27.75<br>705 | 32.75<br>832 | 39.00<br>991  | 44.50<br>1130 | 49.50<br>1257 | 54.50<br>1384 | 60.51<br>1537 | 65.51<br>1664 | 76.49<br>1943  | 80.00<br>2033  | 86.96<br>2209  | 90.00<br>2286  | 95.00<br>2413  | 100.98<br>2565 | in<br>mm     |
| L2<br>(RTJ) | 14.62<br>371 | 16.62<br>422 | 18.62<br>473 | 21.62<br>549 | 28.00<br>711 | 33.12<br>841 | 39.38<br>1000 | 45.12<br>1146 | 50.25<br>1276 | 55.38<br>1407 | 61.37<br>1559 | 66.37<br>1686 | 77.63<br>1972  | -              | -              | -              | -              | -              | in<br>mm     |
| H<br>(OPEN) | 17.62<br>448 | 17.62<br>448 | 21.62<br>550 | 25.25<br>640 | 33.5<br>850  | 38.62<br>980 | 46.5<br>1180  | 62.25<br>1580 | 70.5<br>1790  | 78<br>1980    | 86.96<br>2209 | 93.97<br>2387 | 110.00<br>2794 | 121.96<br>3098 | 133.97<br>3403 | 147.48<br>3746 | 120.00<br>3048 | 127.99<br>3251 | in<br>mm     |
| D0          | 14<br>350    | 14<br>350    | 14<br>350    | 18<br>450    | 24<br>600    | 28<br>700    | 34<br>850     | 34<br>850     | 34<br>850     | 34<br>850     | 33.85<br>860  | 33.85<br>860  | 33.85<br>860   | 40.15<br>1020  | 40.15<br>1020  | 40.15<br>1020  | -              | -              | in<br>mm     |
| WT<br>(kg)  | 39<br>69     | 45<br>80     | 55<br>95     | 77<br>123    | 175<br>283   | 323<br>481   | 540<br>795    | 795<br>1148   | 1115<br>1626  | 1556<br>2195  | 4000<br>5225  | 4800<br>6310  | 7500<br>9050   | 8900<br>9934   | 10000<br>11174 | 13500<br>14852 | 16000<br>17443 | 18900<br>21246 | BW<br>RF/RTJ |