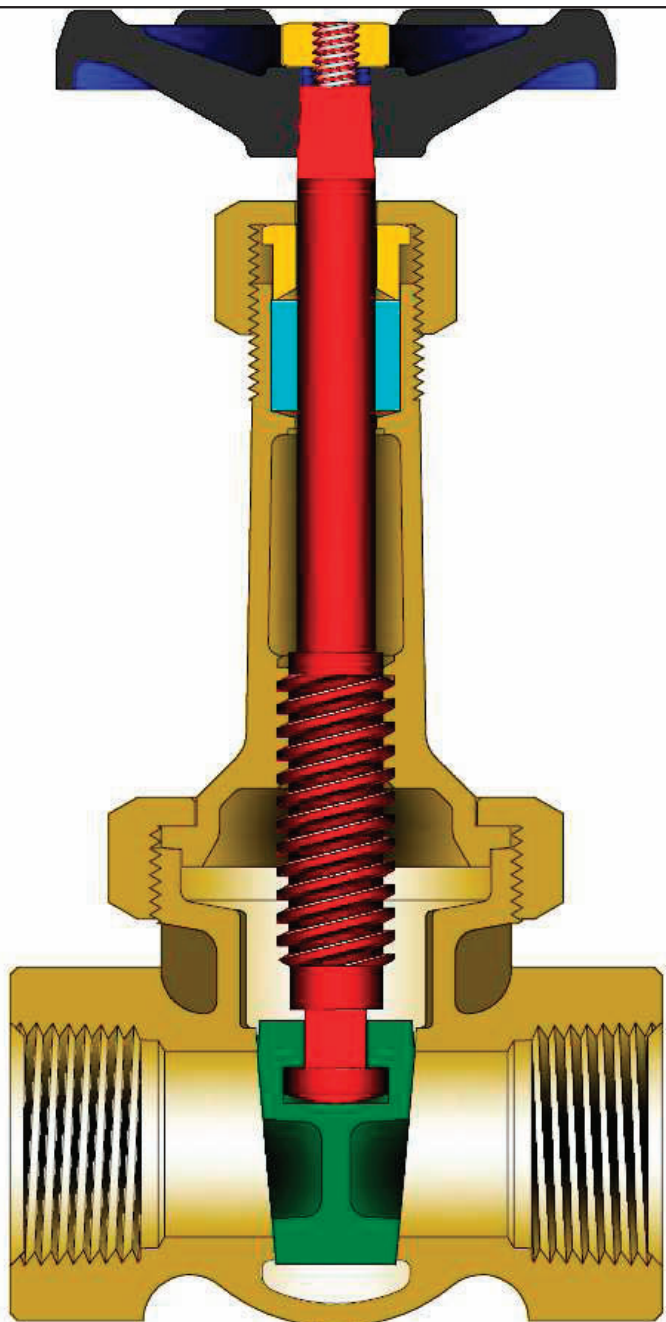


**MSS SP-80 GATE VALVE**  
**UNION BONNET, THREADED ENDS**  
**¼ TO 3" (6 TO 75mm) CLASSES 200 AND 300**  
**BRONZE RISING STEM**



**STANDARD MATERIALS**

| PART           | MATERIALS     |
|----------------|---------------|
| Body           | B61           |
| Bonnet         | B61           |
| Bonnet Ring    | B61           |
| Wedge          | B61           |
| Stem           | B371 C69400   |
| Packing Nut    | B62 or B16    |
| Gland          | B16           |
| Packing        | Graphite      |
| Hand Wheel     | A47 Gr. 32510 |
| Hand Wheel Nut | Brass         |
| Wheel Plate    | Aluminum      |

**Design Specifications**

| Item                           | Applicable Specification |
|--------------------------------|--------------------------|
| Pressure - temperature ratings | MSS SP-80                |
| General valve design           | MSS SP-80                |
| Thread design                  | ASME B1.20.1             |
| Materials                      | ASTM                     |

**DESIGN FEATURES:**

- **Renewable** solid wedges.
- **Integral** seats.
- **High-Tensile** bronze alloy stem.
- **Stems** are rotating / rising design.
- **Each** valve is shell and seat pressure tested per industry standard MSS SP-80.

| Class | Fig. No. |
|-------|----------|
| 200   | 375      |
| 300   | 377      |

# **GATE VALVE DIMENSIONS (CLASSES 200 & 300).**

| SIZE | FIG 375 |      |      |     |     |    | FIG 377        |      |      |      |     |     |    |                |
|------|---------|------|------|-----|-----|----|----------------|------|------|------|-----|-----|----|----------------|
| in   | A       | C    | D    | E   | WT  | lb | C <sub>v</sub> | A    | C    | D    | E   | WT  | lb | C <sub>v</sub> |
| mm   |         |      |      |     |     | kg |                |      |      |      |     |     | kg |                |
| ¼    | 1.81    | 4.3  | 0.25 | 2.1 | 0.8 |    | 3.2            | 1.94 | 4.9  | 0.25 | 3.0 | 1.3 |    | 3.2            |
| 6    | 46      | 108  | 6    | 54  | 0.4 |    |                | 49   | 124  | 6    | 76  | 0.6 |    |                |
| ¾    | 2.06    | 4.3  | 0.38 | 2.1 | 0.9 |    | 7.1            | 2.13 | 4.9  | 0.38 | 3.0 | 1.3 |    | 7.1            |
| 10   | 52      | 108  | 10   | 54  | 0.4 |    |                | 54   | 124  | 10   | 76  | 0.6 |    |                |
| ½    | 2.44    | 4.9  | 0.50 | 2.5 | 1.2 |    | 12.6           | 2.44 | 5.9  | 0.50 | 3.3 | 1.8 |    | 12.6           |
| 13   | 62      | 124  | 13   | 64  | 0.7 |    |                | 62   | 149  | 13   | 83  | 0.8 |    |                |
| ¾    | 2.56    | 6.1  | 0.75 | 2.8 | 2.0 |    | 30             | 2.69 | 7.2  | 0.75 | 3.6 | 3.0 |    | 30             |
| 20   | 65      | 156  | 19   | 70  | 0.9 |    |                | 68   | 183  | 19   | 92  | 1.3 |    |                |
| 1    | 2.94    | 7.4  | 1.00 | 3.0 | 2.7 |    | 55             | 3.00 | 8.3  | 1.00 | 4.1 | 4.9 |    | 55             |
| 25   | 75      | 187  | 25   | 76  | 1.2 |    |                | 76   | 210  | 25   | 105 | 2.2 |    |                |
| 1¼   | 3.13    | 8.6  | 1.25 | 3.3 | 4.7 |    | 90             | 3.38 | 9.5  | 1.25 | 4.6 | 6.9 |    | 90             |
| 32   | 79      | 219  | 32   | 83  | 2.1 |    |                | 86   | 241  | 32   | 117 | 3.1 |    |                |
| 1½   | 3.50    | 9.6  | 1.50 | 3.6 | 5.5 |    | 130            | 3.75 | 10.8 | 1.50 | 5.1 | 8.9 |    | 130            |
| 40   | 89      | 244  | 38   | 92  | 2.5 |    |                | 95   | 273  | 38   | 130 | 4.0 |    |                |
| 2    | 4.00    | 11.7 | 2.00 | 4.1 | 9.1 |    | 240            | 4.38 | 13.1 | 2.00 | 5.7 | 17  |    | 240            |
| 50   | 102     | 297  | 51   | 103 | 4.1 |    |                | 111  | 333  | 51   | 144 | 7.7 |    |                |
| 2½   | 4.63    | 15.1 | 2.50 | 4.7 | 19  |    | 350            | 5.00 | 14.1 | 2.50 | 8.0 | 24  |    | 350            |
| 65   | 117     | 384  | 64   | 119 | 8.6 |    |                | 127  | 357  | 64   | 203 | 11  |    |                |
| 3    | 5.13    | 17.4 | 3.00 | 5.7 | 26  |    | 510            | 5.63 | 16.4 | 3.00 | 9.0 | 32  |    | 510            |
| 75   | 130     | 443  | 76   | 145 | 11  |    |                | 143  | 416  | 76   | 229 | 15  |    |                |

**C** = Center to top open

**WT** = Weight

**C<sub>v</sub>** = Flow Coefficient

