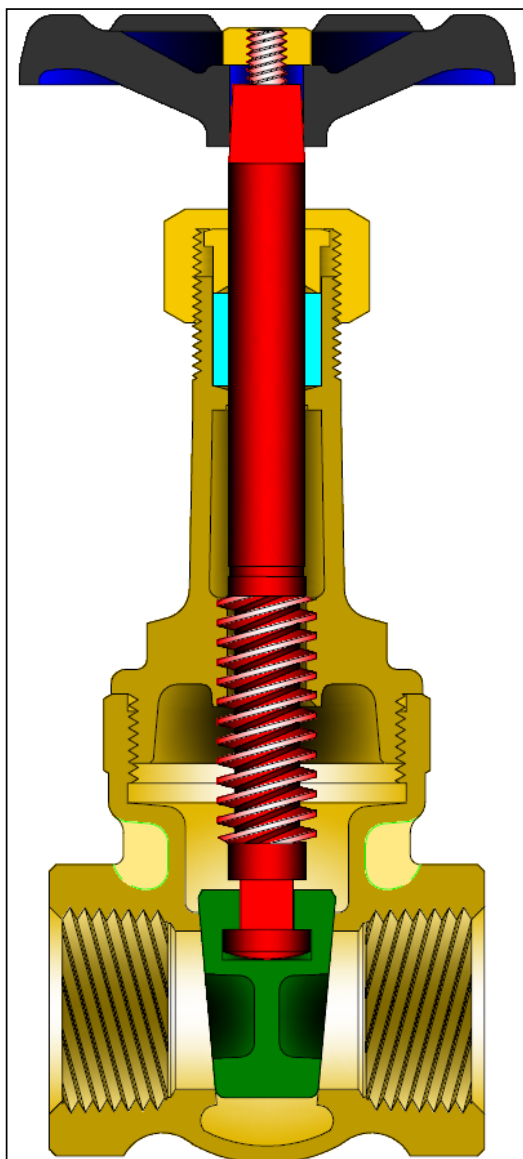


# MSS SP-80 GATE VALVE

THREADED BONNET, THREADED ENDS

GATE 1/4" - 3" (6 - 75 mm) CLASSES 125 - 150

BRONZE RISING STEM



| Class | Fig. No. |
|-------|----------|
| 125   | 500      |
| 150   | 514      |

## STANDARD MATERIALS

| PART           | MATERIALS    |
|----------------|--------------|
| Body           | B62          |
| Bonnet         | B62          |
| Wedge          | B62          |
| Stem           | B371 C69400  |
| Packing Nut    | B124 C37700  |
| Gland          | B124 C37700  |
| Packing        | Graphite     |
| Hand Wheel     | Ductile Iron |
| Hand Wheel Nut | Brass        |
| Wheel Plate    | Aluminum     |

## Design Specifications

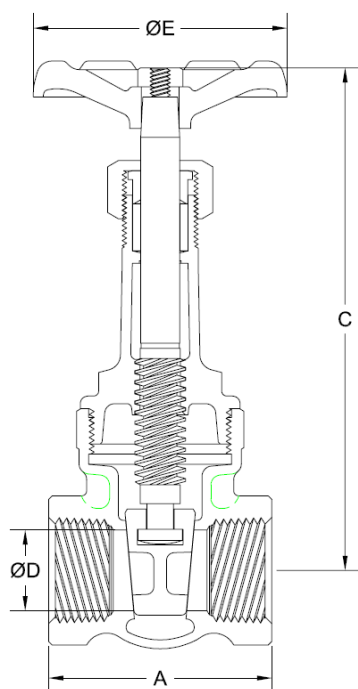
| Item                           | Applicable Specification |
|--------------------------------|--------------------------|
| Pressure - temperature ratings | MSS SP-80                |
| General valve design           | MSS SP-80                |
| Thread design                  | ASME B1.20.1     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

## DESIGN FEATURES:

- Renewable solid wedges.
- Integral seats.
- High-Tensile bronze alloy stems.
- Each valve is shell and seat pressure tested per industry standard MSS SP-80

## GATE VALVE DIMENSIONS (CLASSES 125 & 150)

| SIZE | FIG 500 & 514 |      |      |     |      |      |
|------|---------------|------|------|-----|------|------|
| in   | A             | C    | D    | E   | WT   | lb   |
| mm   |               |      |      |     |      | kg   |
| ¼    | 1.81          | 5.0  | 0.25 | 2.5 | 0.9  | 3.2  |
| 6    | 46            | 128  | 6    | 64  | 0.4  |      |
| 3/8" | 1.81          | 5.0  | 0.38 | 2.5 | 0.9  | 7.1  |
| 10   | 46            | 128  | 10   | 64  | 0.4  |      |
| ½    | 2.00          | 5.1  | 0.50 | 2.5 | 1.0  | 12.6 |
| 13   | 51            | 130  | 13   | 64  | 0.5  |      |
| ¾    | 2.19          | 6.3  | 0.75 | 2.8 | 1.5  | 30   |
| 20   | 56            | 159  | 19   | 70  | 0.7  |      |
| 1    | 2.50          | 7.5  | 1.00 | 3.0 | 2.3  | 55   |
| 25   | 64            | 190  | 25   | 77  | 1.0  |      |
| 1¼   | 2.81          | 8.7  | 1.25 | 3.3 | 3.6  | 87   |
| 32   | 72            | 222  | 32   | 83  | 1.6  |      |
| 1½   | 2.94          | 9.8  | 1.50 | 3.6 | 4.8  | 129  |
| 40   | 74            | 250  | 38   | 92  | 2.2  |      |
| 2    | 3.31          | 11.9 | 2.00 | 4.1 | 7.1  | 240  |
| 50   | 84            | 303  | 51   | 103 | 3.2  |      |
| 2½   | 4.13          | 14.6 | 2.50 | 5.1 | 14.0 | 350  |
| 65   | 105           | 370  | 64   | 130 | 6.4  |      |
| 3    | 4.44          | 16.5 | 3.00 | 5.7 | 19.1 | 510  |
| 75   | 112           | 420  | 76   | 145 | 8.7  |      |



**C** = Center to top open

**WT** = Weight

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