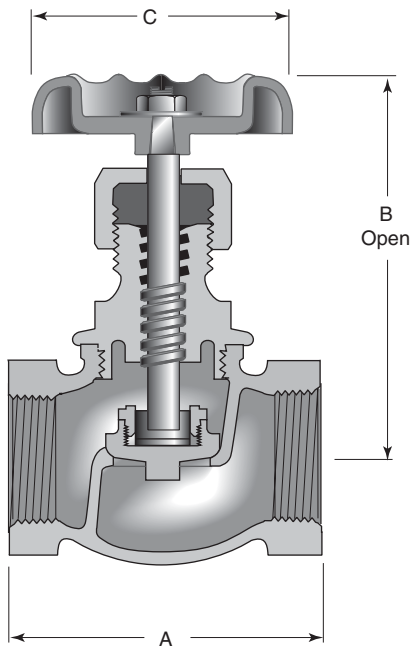


Figure 1

# Bronze Globe Valve



**Class 125 • Threaded Bonnet • Brass/Bronze Disc • Threaded Ends**



### Features

- Heavier and more rugged than is usual with Class 125 valves.
- Threaded Ends
- Integral Bronze Seat
- Back Seat
- MSS SP-80, Type 1

For more detailed features, refer to page 35.

### Figure 1

#### Size Range:

¼" through 2"

#### Working Pressures Non-Shock:

125 psi Steam, Basic Rating

200 psi Cold Working Pressure

### Principal Parts & Materials

Part	Sizes	Material	ASTM
Body	All	Bronze	B62 alloy C83600
Bonnet	All	Bronze	B62 alloy C83600
Disc	All	Bronze	B61 alloy C92200
Stem	All	Bronze	B371 alloy C69400

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	¼ (6)	½ (15)	¾ (20)	¾ (10)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)
A	1.92 (49)	1.95 (50)	2.57 (65)	2.99 (76)	3.51 (89)	3.88 (99)	4.67 (119)	5.75 (146)
B	3.73 (95)	3.63 (92)	3.41 (87)	4.37 (111)	4.92 (125)	5.24 (133)	5.75 (146)	6.56 (167)
C	1.96 (50)	1.92 (49)	2.14 (54)	2.98 (76)	3.03 (77)	3.70 (94)	4.63 (118)	5.25 (133)
WTS.	0.70 (0.29)	0.60 (0.27)	1.10 (0.48)	2.00 (0.88)	2.80 (1.27)	4.20 (1.88)	6.30 (2.84)	9.80 (4.45)

**Class 125 • Threaded Bonnet • PTFE Disc • Threaded Ends**

### Figure 5TF

**Size Range:**

3/8" through 2"

**Working Pressures Non-Shock:**

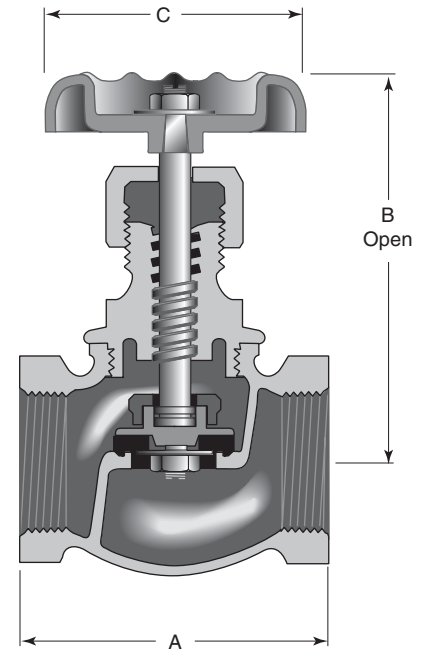
125 psi Steam, Basic Rating

200 psi Cold Working Pressure

### Features

- PTFE Disc
- Threaded Ends
- Internal Bronze Seat
- Back Seat
- MSS SP-80, Type 2

For more detailed features, refer to page 35.



### Principal Parts & Materials

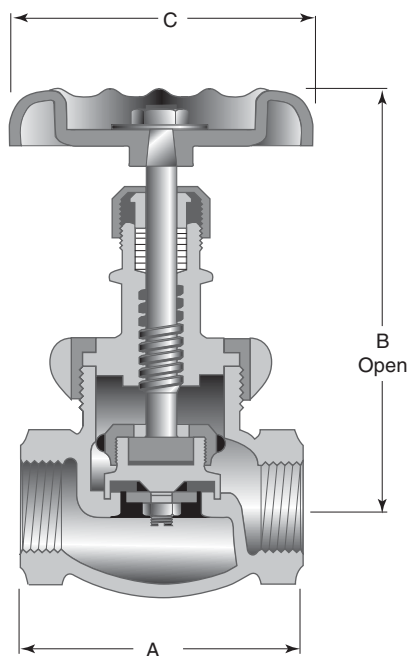
Part	Sizes	Material	ASTM
Body	All	Bronze	B62 alloy C83600
Bonnet	3/8" - 2"	Bronze	B62 alloy C83600
Disc Holder	3/8" - 3/4"	Brass	B16 H02
Disc Holder	1" - 2"	Bronze	B61 alloy 92200
Stem	All	Bronze	B371 alloy C69400
Disc	All	PTFE w/metal retainer	—

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	3/8 (10)	1/2 (15)	3/4 (20)	1 (25)	1 1/4 (32)	1 1/2 (40)	2 (50)
A	2.99 (76)	1.94 (49)	2.57 (65)	3.51 (89)	3.88 (99)	4.67 (119)	5.75 (146)
B	4.55 (116)	3.66 (93)	3.55 (90)	5.01 (127)	5.10 (130)	6.05 (154)	6.74 (171)
C	2.98 (76)	1.96 (50)	2.14 (54)	3.03 (77)	3.70 (94)	4.63 (118)	5.24 (133)
WTS.	1.90 (0.86)	0.70 (0.32)	1.10 (0.48)	2.80 (1.25)	4.10 (1.86)	6.20 (2.79)	9.80 (4.45)

**Class 150 • Union Bonnet • PTFE Disc • Threaded Ends**



### Features

- PTFE Disc
- Threaded Ends
- Valves 2" and smaller have union bonnet. Disc holder retains disc and slips on the stem. Sizes 2 ½" and 3" have bolted bonnet; disc holder is fastened by a disc stem ring.
- Back Seat
- Integral Bronze Seat
- MSS SP-80, Type 2

For more detailed features, refer to page 35.

### Figure 7TF

#### Size Range:

¼" through 3"

#### Working Pressures Non-Shock:

150 psi Steam, Basic Rating

300 psi Cold Working Pressure

### Principal Parts & Materials

Part	Sizes	Material	ASTM
Body	All	Bronze	B62 alloy C83600
Bonnet	¼" - ¾"	Brass	B16 H02
Bonnet	½" - 3"	Bronze	B62 alloy C83600
Disc Holder	¼" - ½"	Brass	B16 H02
Disc Holder	¾" - 3"	Bronze	B62 alloy C83600
Stem	All	Bronze	B371 alloy C69400
Disc	All	PTFE	—

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	¼ (6)	¾ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)
A	1.96 (50)	1.96 (50)	2.58 (66)	2.96 (75)	3.52 (89)	4.03 (102)	4.57 (116)	5.72 (145)	7.27 (185)	8.60 (218)
B	4.25 (108)	4.19 (106)	4.11 (104)	5.16 (131)	5.55 (141)	6.52 (166)	7.34 (186)	7.51 (191)	8.68 (220)	9.75 (248)
C	2.13 (54)	2.13 (54)	2.25 (57)	2.96 (75)	3.03 (77)	3.69 (94)	4.61 (117)	5.24 (133)	6.97 (177)	7.00 (178)
WTS.	0.80 (0.36)	0.80 (0.36)	1.30 (0.59)	2.20 (1.00)	3.20 (1.45)	4.90 (2.22)	7.20 (3.24)	11.50 (5.22)	24.90 (11.29)	40.60 (18.42)

### 300 CWP • Threaded Bonnet • PTFE Disc • Solder Ends

Figure 1310

**Size Range:**

3/8" through 2"

**Working Pressures Non-Shock:**

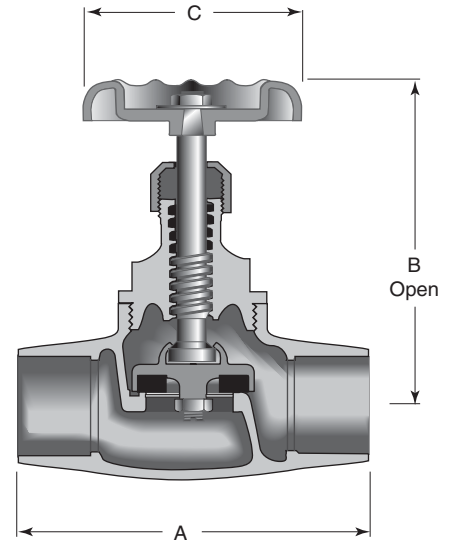
300 psi Cold Working Pressure

**Features**

- Screwed Bonnet
- Solder Joint Ends
- Integral Bronze Seat
- Back Seat
- PTFE Disc
- MSS SP-80, Type 2

For more detailed features, refer to page 35.

**Caution:** Before installing solder joint valves, be sure solder or brazing alloy melting point is high enough to withstand line pressure/temperature conditions, and is compatible with fluid medium. See page 5 for adjusted pressure/temperature ratings.



### Principal Parts & Materials

Part	Sizes	Material	ASTM
Body	All	Bronze	B62 alloy C83600
Bonnet	All	Bronze	B62 alloy C83600
Disc	All	PTFE w/metal retainer	—
Stem	All	Bronze	B371 alloy C69400

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	(10)	(15)	(20)	(25)	(32)	(40)	(50)
A	2.73 (69)	2.73 (69)	3.52 (89)	4.26 (108)	4.70 (119)	5.51 (140)	6.97 (177)
B	4.28 (109)	3.53 (90)	4.55 (116)	5.02 (128)	5.19 (132)	6.22 (158)	6.77 (172)
C	2.13 (54)	2.25 (54)	2.97 (75)	3.04 (77)	3.70 (94)	4.60 (117)	5.24 (133)
WTS.	1.00 (0.45)	1.00 (0.45)	1.70 (0.77)	2.40 (1.09)	3.70 (1.68)	5.20 (2.36)	8.50 (3.86)



**Class 150 • Union Bonnet • Stainless Steel Disc & Seat Ring • Threaded Ends**

### Features

- Union Bonnet, ¼"-2"
- Threaded Ends
- Bolted Bonnet, 2 ½" and 3"
- Back Seat
- Stainless Steel Seat Ring
- MSS SP-80, Type 3

For more detailed features, refer to page 35.

### Figure 14½ P

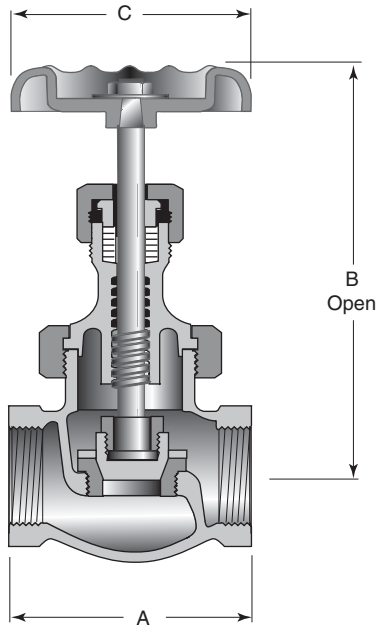
#### Size Range:

¼" through 3"

#### Working Pressures Non-Shock:

150 psi Steam, Basic Rating

300 psi Cold Working Pressure



### Principal Parts & Materials

Part	Sizes	Material	ASTM
Body	All	Bronze	B62 alloy C83600
Bonnet	¼"-¾"	Brass	B16 H02
Bonnet	½"-3"	Bronze	B62 alloy C83600
Disc and seat ring	All	Stainless Steel	A276 S42000
Stem	All	Bronze	B371 alloy C69400

### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	¼ (6)	⅜ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)
A	1.97 (50)	1.97 (50)	2.63 (67)	2.99 (76)	3.51 (89)	4.04 (103)	4.57 (116)	5.72 (145)	7.28 (185)	8.70 (221)
B	4.43 (113)	4.43 (113)	4.09 (104)	5.10 (130)	5.58 (142)	6.42 (163)	7.17 (182)	7.48 (190)	8.44 (214)	9.79 (249)
C	2.13 (54)	2.13 (54)	2.25 (57)	2.98 (76)	3.02 (77)	3.68 (93)	4.63 (118)	5.24 (133)	6.97 (177)	7.00 (178)
WTS.	0.90 (0.39)	0.90 (0.39)	1.30 (0.59)	2.20 (1.00)	3.20 (1.45)	4.80 (2.18)	7.10 (3.22)	11.50 (5.20)	25.10 (11.37)	40.50 (18.38)

### Class 200 • Union Bonnet • Plug Type Disc • Threaded Ends

#### Figure 212P

##### Size Range:

¼" through 3"

##### Working Pressures Non-Shock:

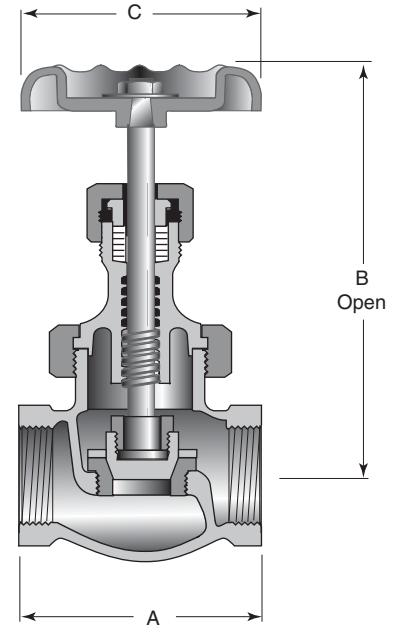
200 psi Steam, Basic Rating

400 psi Cold Working Pressure

#### Features

- Ideal for non-shock, severe service, such as throttling soot blower, blow-off boiler feed, and drip and drain lines
- Union Bonnet
- Tapered Plug Type Disc
- Stainless Steel Seat Ring
- Disc and Seat Ring are Renewable
- Back Seat
- MSS SP-80, Type 3

For more detailed features, refer to page 35.



#### Principal Parts & Materials

Part	Material	ASTM
Body & bonnet	Bronze	B61 alloy C92200
Stem	Bronze	B371 alloy C69400
Disc & seat ring	Stainless Steel	A276 S42000

#### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	¼ (6)	⅜ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)
A	1.97 (50)	1.97 (50)	2.63 (67)	2.99 (76)	3.51 (89)	4.04 (103)	4.57 (116)	5.72 (145)	7.28 (185)	8.70 (221)
B	4.43 (113)	4.43 (113)	4.09 (104)	5.10 (130)	5.58 (142)	6.42 (163)	7.17 (182)	7.48 (190)	8.44 (214)	9.79 (249)
C	2.13 (54)	2.13 (54)	2.50 (64)	2.98 (76)	3.02 (77)	3.68 (93)	4.63 (118)	5.24 (133)	6.97 (177)	7.00 (178)
WTS.	0.90 (0.39)	0.90 (0.39)	1.30 (0.59)	2.20 (1.00)	3.20 (1.45)	4.80 (2.18)	7.10 (3.22)	11.50 (5.20)	25.10 (11.37)	40.50 (18.38)

**Class 200 • Threaded Bonnet • Needle Type Disc • Threaded Ends**

**Features**

- Rising Stem
- Threaded Ends
- Screwed Bonnet
- Integral Seat
- Graphite Packing
- MSS Specification SP-80

For more detailed features, refer to page 35.

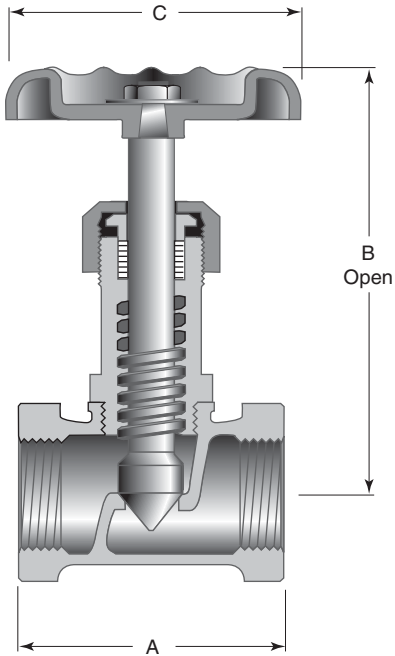
**Figure 88**

**Size Range:**

1/8" through 3/4"

**Working Pressures Non-Shock:**

200 psi Steam, Basic Rating  
400 psi Cold Working Pressure



**Principal Parts & Materials**

Part	Size	Material	ASTM
Body	All	Bronze	B62 C83600
Bonnet	1/8"–3/8"	Bronze	B150 alloy C64200
Bonnet	1/2"–3/4"	Brass	B16 H02
Stem	All	Bronze	B150 alloy C64200

**Dimensions and Weights**

Inches (millimeters) - pounds (kilograms)

	1/8 (3)	1/4 (6)	3/8 (10)	1/2 (15)	3/4 (20)
A	1.16 (29)	1.53 (39)	1.78 (45)	2.03 (52)	2.28 (58)
B	2.94 (73)	2.88 (73)	3.06 (78)	3.56 (91)	4.12 (105)
C	1.75 (44)	1.75 (44)	1.75 (44)	2.06 (52)	2.56 (65)
WTS.	0.30 (0.14)	0.30 (0.14)	0.50 (0.22)	0.60 (0.27)	1.0 (0.45)

### Class 300 • Union Bonnet • Plug Type Disc • Renewable Stainless Steel Seats

#### Figure 382P

##### Size Range:

¼" through 3"

##### Working Pressures Non-Shock:

300 psi Steam, Basic Rating

¼" to 2" - (6mm-50mm)

1000 psi Cold Working Pressure

¼" to 2" - (6mm-50mm)

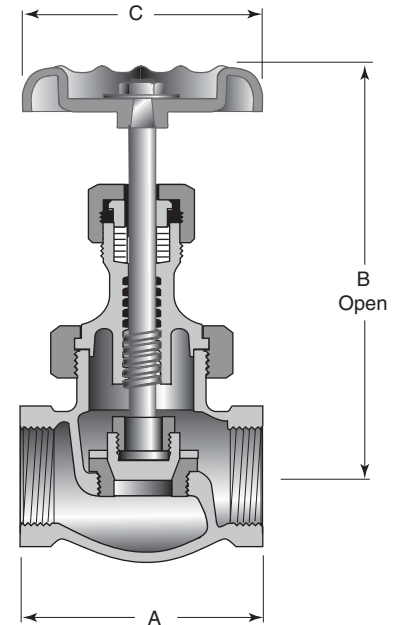
600 psi Cold Working Pressure

2 ½" to 3" - (65mm-80mm)

#### Features

- Ideal for non-shock, severe service, such as throttling soot blower, blow-off, boiler feed, and drip and drain lines
- Union Bonnet
- Threaded Ends
- Plug Type Disc
- Back Seat
- 450 Brinell hardened Stainless Steel Seat Ring
- Valves 2" (50mm) and smaller have compact union bonnet; 2 ½" (65mm) and 3" (80mm) use bolted bonnet.
- MSS Specification SP-80

For more detailed features, refer to page 35.



#### Principal Parts & Materials

Part	Sizes	Material	ASTM
Body	All	Bronze	B61 C92200
Bonnet	¼" - ¾"	Brass	B16 H02
Bonnet	½" - 3"	Bronze	B61 C92200
Disc & seat ring	All	Stainless Steel	A276 S42000
Stem	All	Bronze	B371 C69400

#### Dimensions and Weights

Inches (millimeters) - pounds (kilograms)

	¼ (6)	⅜ (10)	½ (15)	¾ (20)	1 (25)	1 ¼ (32)	1 ½ (40)	2 (50)	2 ½ (65)	3 (80)
A	1.97 (50)	1.97 (50)	2.63 (67)	2.99 (76)	3.51 (89)	4.04 (103)	4.57 (116)	5.72 (145)	7.28 (185)	8.70 (221)
B	4.43 (102)	4.43 (102)	4.09 (97)	5.10 (119)	5.58 (131)	6.42 (146)	7.17 (162)	7.48 (172)	8.44 (192)	9.79 (220)
C	2.13 (54)	2.13 (54)	2.50 (64)	2.98 (76)	3.02 (77)	3.68 (93)	4.63 (118)	5.24 (133)	6.97 (177)	7.00 (178)
WTS.	0.90 (0.39)	0.90 (0.39)	1.30 (0.59)	2.20 (1.00)	3.20 (1.45)	4.80 (2.18)	7.10 (3.22)	11.50 (5.20)	25.10 (11.39)	40.50 (19.37)