

# FIGURE 40

# Stainless Steel Globe Valves

## 200 CWP • Threaded Bonnet • Plug Type Disc

Figure 40  
Threaded Ends

**Size Range:**

½ through 2 inches

**Design Features:**

- Threaded Bonnet
- Inside Screw
- Rising Stem
- Integral Seat

**Pressure Temperature Ratings:**

200 psi @ -20° to 100°F

135 psi @ 500°F max.

**Industry Standards**

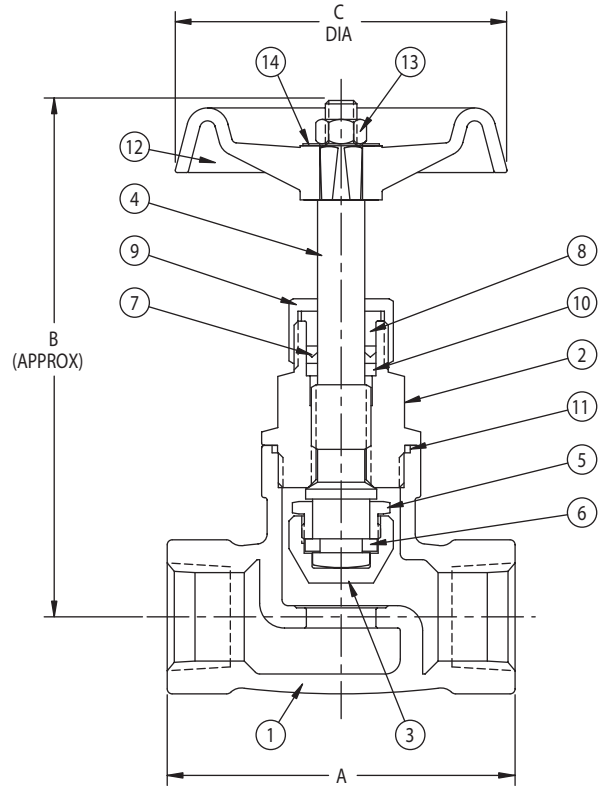
Threaded Ends	ASME B1.20.1
End-to-End	Manufacturer's Standard

**Materials of Construction**

1	Body	ASTM A351 CF8M
2	Bonnet	ASTM A351 CF8M
3	Disc	316 SS
4	Stem	316 SS
5	Disc Nut	316 SS
6	Disc Washer	316 SS
7	Packing	PTFE
8	Gland	316 SS
9	Gland Nut	316 SS
10	Packing Washer	316 SS
11	Gasket	PTFE
12	Handwheel	Ductile Iron
13	Handwheel Nut	304 SS
14	ID Tag	304 SS

**Dimensions and Weights**

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	1.0	2.76	4.0	2.6
¾	1.4	3.15	4.0	2.6
1	1.8	3.54	4.2	3.0
1½	3.3	4.72	5.4	3.4
2	4.9	5.51	5.8	4.0



**Fig. 40**

# Stainless Steel Globe Valves

## Class 150 • OS&Y • Plug Type Disc

### Figure 310

Threaded Ends

### Figure 314

Socket Weld Ends

#### Size Range:

1/2 through 2 inches

#### Design Features:

- Bolted Bonnet
- Retained Gasket
- Rising Stem
- Integral Seat
- MSS SP-42
- ASME B16.34

#### Industry Standards

Pipe Threads	ASME B1.20.1
Wall Section	ASME B16.34
Socket Weld Ends	ASME B16.11
End-to-End	Manufacturer's Standard
Pressure-Temp. Ratings	ASME B16.34
Testing	API 598

#### Materials of Construction

1	Body	ASTM A351 CF3M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Disc Nut	ASTM A276 T316
6	Handwheel	ASTM A536
7	Gasket	PTFE
8	Gland Flange	ASTM A351 CF8
9	Gland	ASTM A276 T304
10	Packing	PTFE
11	Stem Nut	ASTM A536
12	Handwheel Nut	ASTM A194 GR 8
13	Bonnet Bolt Nut	ASTM A194 GR 8
14	Bonnet Bolt	ASTM A193 GR B8
15	Eyebolt Pin	ASTM A276 T304
16	Eyebolt	ASTM A193 GR B8
17	Eyebolt Nut	ASTM A194 GR 8
18	ID Tag	Aluminum
19	Washer	ASTM A276 T304

#### Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
1/2	6.6	3.74	7.1	3.9	.38
3/4	6.9	4.53	7.3	3.9	.50
1	8.7	4.92	7.9	3.9	.50
1 1/2	12.6	5.52	9.2	5.5	.50
2	17.3	6.50	10.2	6.3	.31

\* For Figure 314 only - socket weld depth

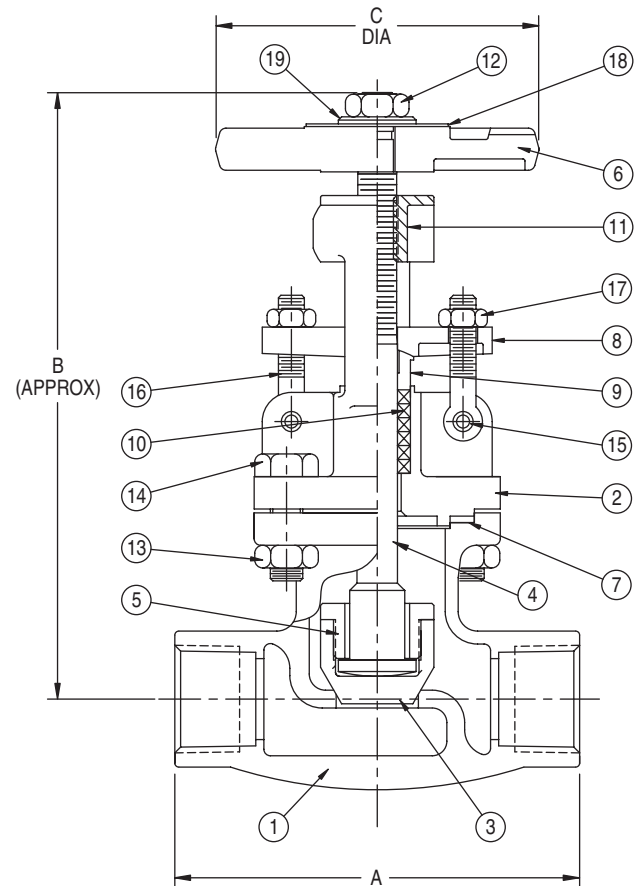


Fig. 310

# FIGURE 317

# Stainless Steel Globe Valves

## Class 150 • OS&Y • Plug Type Disc

### Figure 317

Raised Face, Flanged Ends

#### Size Range:

½ through 12 inches

#### Design Features:

- Bolted Bonnet
- Rising Stem
- Retained Gasket
- Integral Seat
- Disc Guide Below Seat
- MSS SP-42
- ASME B16.34

### Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	7.6	4.25	7.1	3.9
¾	8.9	4.63	7.3	3.9
1	11.6	5.00	7.9	3.9
1 ½	16.4	6.50	9.2	5.5
2	25.2	8.00	10.2	6.3
2 ½	46.3	8.50	11.1	7.9
3	61.7	9.50	13.5	8.8
4	97.0	11.50	14.8	11.0
6	198.5	16.00	16.9	14.0
8	383.7	19.50	22.0	14.0
10	546.8	24.50	29.7	15.7
12	848.9	27.50	32.5	15.7

### Industry Standards

End Flanges	ASME B16.5
Wall Section	ASME B16.34
Face-to-Face	ASME B16.10
Pressure-Temp. Ratings	ASME B16.34
Testing	API 598

### Materials of Construction

1	Body	ASTM A351 CF8M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Disc Nut	ASTM A276 T316
6	Handwheel	ASTM A536
7	Gasket	PTFE
8	Gland Flange	ASTM A351 CF8
9	Gland	ASTM A276 T304
10	Packing	PTFE
11	Stem Nut	ASTM A536
12	Handwheel Nut	ASTM A194 GR 8
13	Bonnet Bolt Nut	ASTM A194 GR 8
14	Bonnet Bolt	ASTM A193 GR B8
15	Eyebolt Pin	ASTM A276 T304
16	Eyebolt	ASTM A193 GR 8
17	Eyebolt Nut	ASTM A194 GR 8
18	ID Tag	Aluminum
19	Washer	ASTM A276 T304

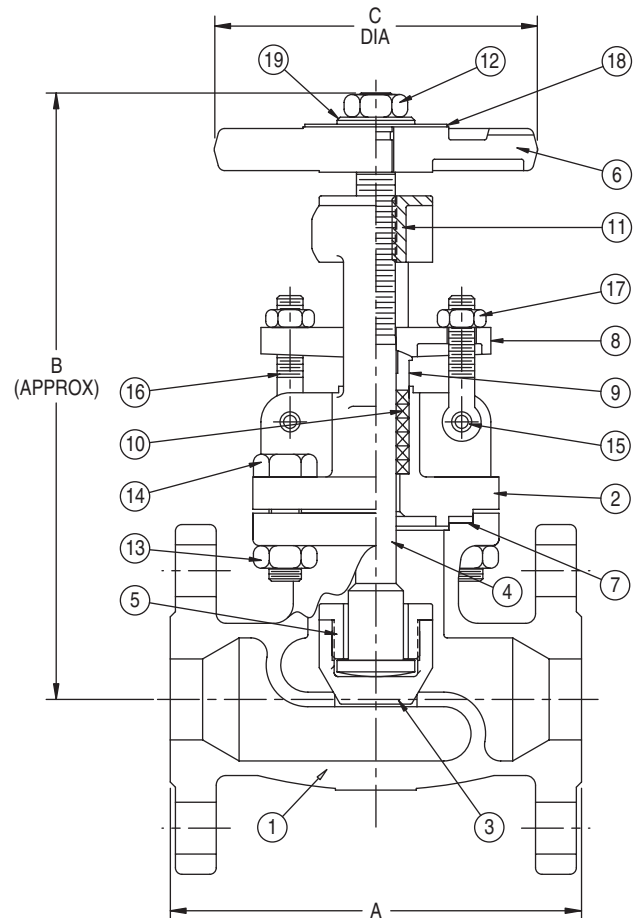


Fig. 317

# Stainless Steel Globe Valves

## Class 300 • OS&Y • Plug Type Disc

Figure 2310  
Threaded Ends  
Figure 2314  
Socket Weld Ends

**Size Range:**  
½ through 2 inches

**Design Features:**

- Bolted Bonnet
- Rising Stem
- Retained Gasket
- Integral Seat
- MSS SP-42

**Industry Standards**

Pipe Threads	ASME B1.20.1
Wall Section	ASME B16.34
Face-to-Face	Manufacturer's Standard
Pressure-Temp. Ratings	ASME B16.34
Socket Weld Ends	ASME B16.11
Testing	API 598

**Materials of Construction**

1	Body	ASTM A351 CF3M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 CF8
8	Gland	ASTM A276 T304
9	Packing	PTFE
10	Stem Nut	ASTM A536
11	Handwheel Nut	ASTM A193 GR 8
12	Bonnet Bolt Nut	ASTM A194 GR 8
13	Bonnet Bolt	ASTM A193 GR B8
14	Eyebolt Pin	ASTM A276 T304
15	Eyebolt	ASTM A193 GR B8
16	Eyebolt Nut	ASTM A194 GR 8
17	ID Tag	Aluminum
18	Washer	304 SS
19	Stem Ring	ASTM A276 T316

**Dimensions and Weights**

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
½	7.0	3.23	7.8	3.9	38
¾	7.0	3.23	7.8	3.9	50
1	10.3	4.13	9.0	3.9	50
1 ½	18.2	4.92	10.7	5.5	50
2	22.6	5.91	11.3	6.3	62

\* For Figure 2314 only - socket weld depth

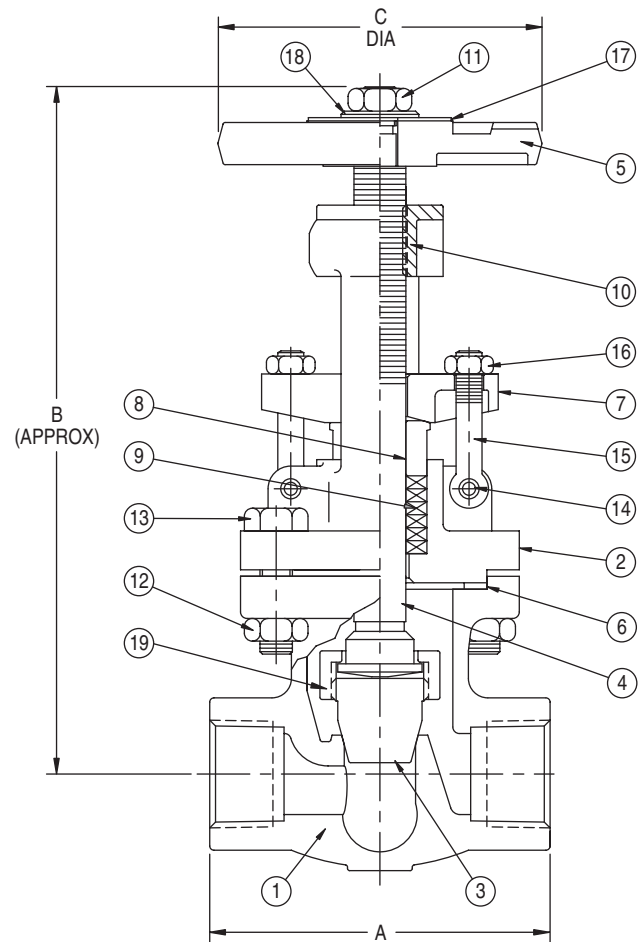


Fig. 2310

# FIGURE 2317

# Stainless Steel Globe Valves

## Class 300 • OS&Y • Plug Type Disc

### Figure 2317

Raised Face, Flanged Ends

#### Size Range:

½ through 8 inches

#### Design Features:

- Bolted Bonnet
- Retained Gasket
- Rising Stem, Rising Handwheel
- Integral Seat
- MSS SP-42
- ASME B16.34

### Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	---	6.00	7.8	3.9
¾	---	7.00	7.8	3.9
1	---	8.00	9.0	3.9
1 ½	---	9.00	10.7	5.5
2	---	10.50	11.3	6.3
2 ½	83.8	11.50	13.9	7.9
3	83.8	12.50	15.1	8.8
4	130.1	14.00	17.4	11.0
6	317.5	17.50	22.3	15.8
8	562.3	22.00	24.2	15.8

### Industry Standards

End Flanges	ASME B16.5
Wall Section	ASME B16.34
Face-to-Face	ASME B16.10
Pressure-Temp. Ratings	ASME B16.34
Testing	API 598

### Materials of Construction

1	Body	ASTM A351 CF8M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 CF8
8	Gland	ASTM A276 T304
9	Packing	PTFE
10	Stem Nut	ASTM A536
11	Handwheel Nut	ASTM A193 GR 8
12	Bonnet Bolt Nut	ASTM A194 GR 8
13	Bonnet Bolt	ASTM A193 GR B8
14	Eyebolt Pin	ASTM A276 T304
15	Eyebolt	ASTM A193 GR B8
16	Eyebolt Nut	ASTM A194 GR 8
17	ID Tag	Aluminum
18	Washer	304 SS
19	Stem Ring	ASTM A276 T316

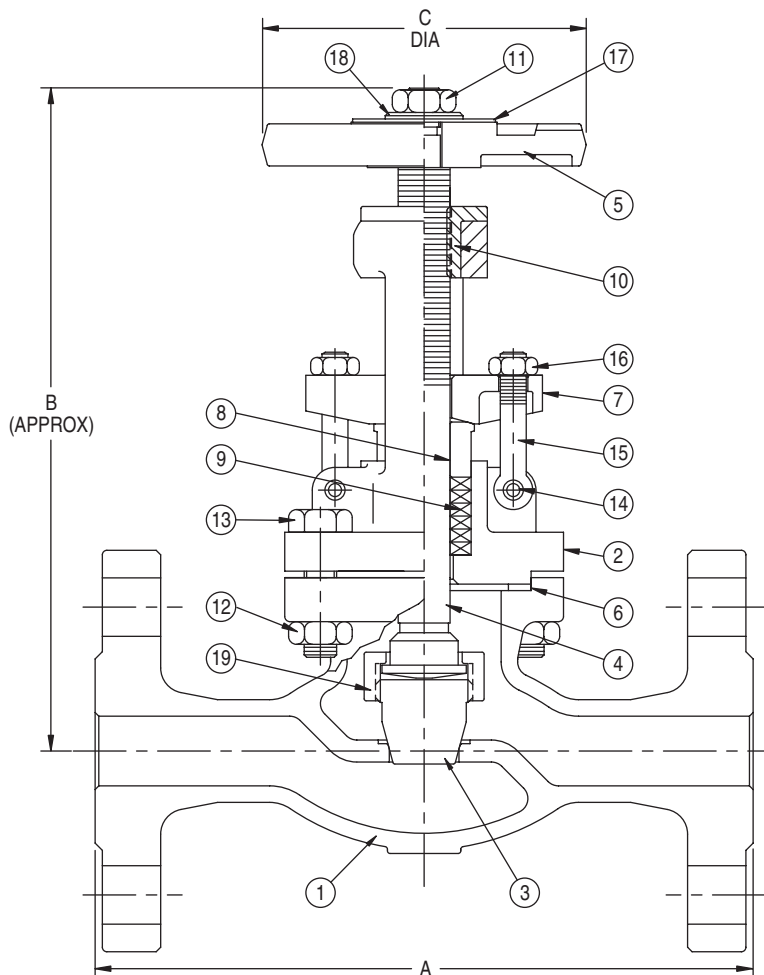


Fig. 2317

# Stainless Steel Globe Valves

## Class 600 • OS&Y • Plug Type Disc

Figure 4310  
Threaded Ends  
Figure 4314  
Socket Weld Ends

**Size Range:**  
½ through 2 inches

**Design Features:**

- Bolted Bonnet
- Rising Stem
- Retained Gasket
- Integral Seat
- MSS SP-42

**Industry Standards**

Pipe Threads	ASME B1.20.1
Wall Section	ASME B16.34
Face-to-Face	Manufacturer's Standard
Pressure-Temp. Ratings	ASME B16.34
Socket Weld Ends	ASME B16.11
Testing	API 598

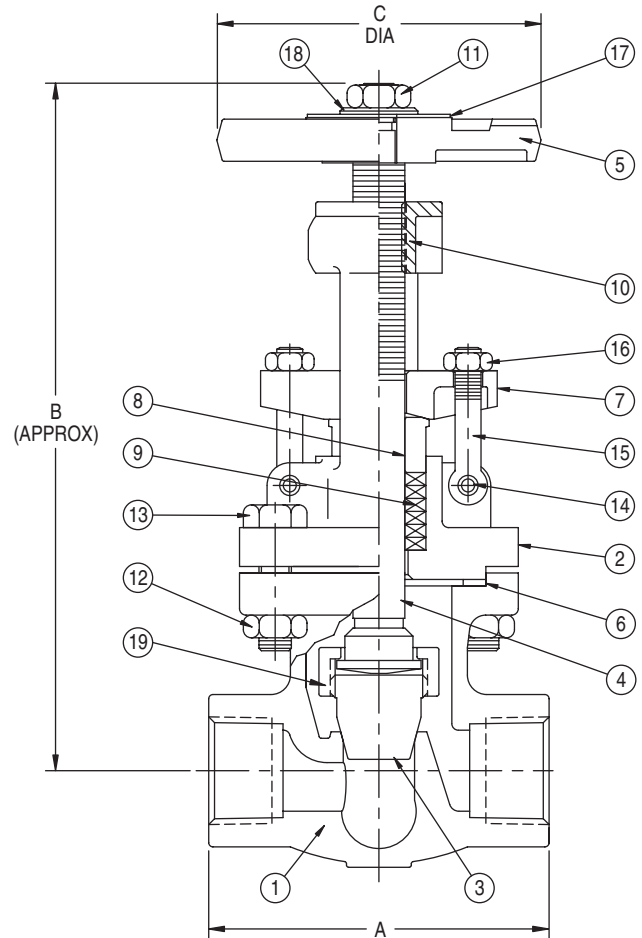
**Materials of Construction**

1	Body	ASTM A351 CF3M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 CF8
8	Gland	ASTM A276 T304
9	Packing	PTFE
10	Stem Nut	ASTM A536
11	Handwheel Nut	ASTM A193 GR 8
12	Bonnet Bolt Nut	ASTM A194 GR 8
13	Bonnet Bolt	ASTM A193 GR B8
14	Eyebolt Pin	ASTM A276 T304
15	Eyebolt	ASTM A193 GR B8
16	Eyebolt Nut	ASTM A194 GR 8
17	ID Tag	Aluminum
18	Washer	304 SS
19	Stem Ring	ASTM A276 T316

**Dimensions and Weights**

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
½	7.0	3.23	7.8	3.9	38
¾	7.0	3.23	7.8	3.9	50
1	10.3	4.13	9.0	3.9	50
1 ½	18.2	4.92	10.7	5.5	50
2	22.6	5.91	11.3	6.3	62

\* For Figure 2314 only - socket weld depth



**Fig. 4310**



# FIGURE 4317

# Stainless Steel Globe Valves

## Class 600 • OS&Y • Plug Type Disc

### Figure 4317

Raised Face, Flanged Ends

#### Size Range:

½ through 6 inches

#### Design Features:

- Bolted Bonnet
- Retained Gasket
- Rising Stem, Rising Handwheel
- Integral Seat
- MSS SP-42
- ASME B16.34

### Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	---	6.50	7.8	3.9
¾	---	7.50	7.8	3.9
1	---	8.50	9.0	3.9
1½	---	9.50	10.7	5.5
2	---	11.50	11.3	6.3
2½	119.1	13.00	17.0	11.0
3	138.9	14.00	18.8	12.4
4	264.6	17.00	20.9	12.4
6	480.7	22.00	26.6	17.7

### Industry Standards

End Flanges	ASME B16.5
Wall Section	ASME B16.34
Face-to-Face	ASME B16.10
Pressure-Temp. Ratings	ASME B16.34
Testing	API 598

### Materials of Construction

1	Body	ASTM A351 CF8M
2	Bonnet	ASTM A351 CF8M
3	Disc	ASTM A351 CF8M
4	Stem	ASTM A276 T316
5	Handwheel	ASTM A536
6	Gasket	PTFE
7	Gland Flange	ASTM A351 CF8
8	Gland	ASTM A276 T304
9	Packing	PTFE
10	Stem Nut	ASTM A536
11	Handwheel Nut	ASTM A193 GR 8
12	Bonnet Bolt Nut	ASTM A194 GR 8
13	Bonnet Bolt	ASTM A193 GR B8
14	Eyebolt Pin	ASTM A276 T304
15	Eyebolt	ASTM A193 GR B8
16	Eyebolt Nut	ASTM A194 GR 8
17	ID Tag	Aluminum
18	Washer	304 SS
19	Stem Ring	ASTM A276 T316

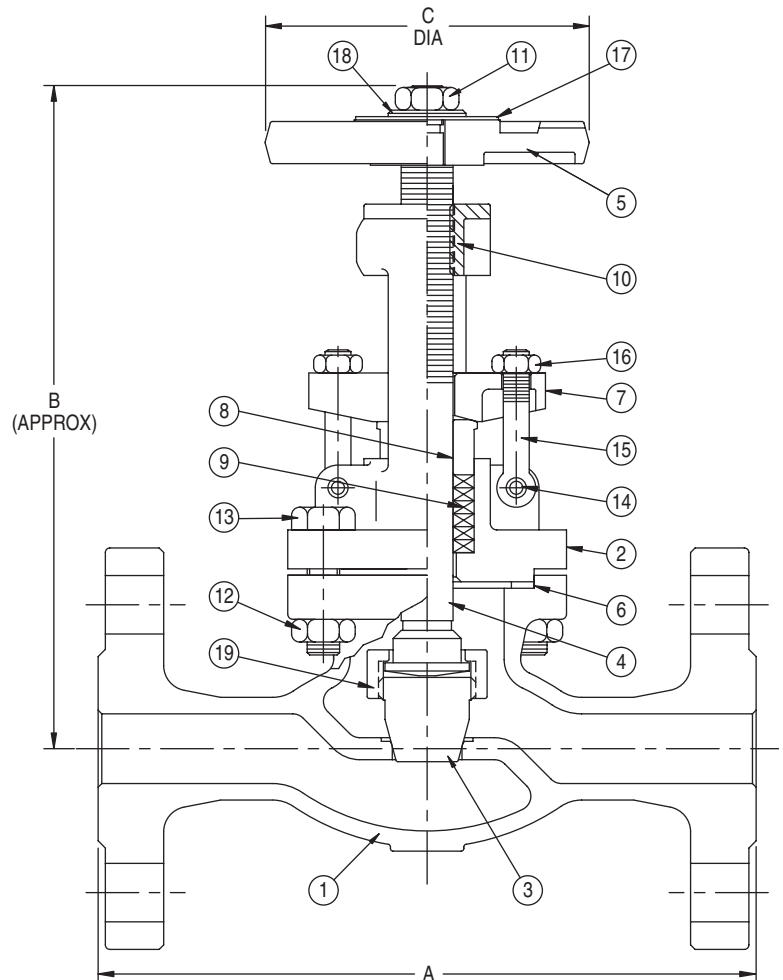


Fig. 4317