

Stainless Steel Gate Valves

200 CWP • Threaded Bonnet • Solid Wedge Disc

Figure 90

Rising Stem

Figure 190

Non-Rising Stem

Size Range:

½ through 2 inches

Design Features:

- Threaded Ends
- Integral Seat
- Figure 190 - Inside Screw/Non-rising Stem

Pressure Temperature Ratings:

200 psi @ -20 to 100°F

135 psi @ 500°F

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	ASTM A351 CF8M
4	Stem	316 SS
5	Packing	PTFE
6	Gland	316 SS
7	Gland Nut	ASTM A351 CF8M
8	Packing Washer	316 SS
9	Gasket	PTFE
10	Handwheel	ASTM A536
11	Handwheel Nut	304 SS
12	ID Tag	Aluminum

Dimensions and Weights

Valve Size	Weight (lbs)		Dimensions (inches)					
			A		B (open)		C	
½	1.0	0.9	2.01	2.1	5.1	3.8	2.6	2.1
¾	1.3	1.5	2.20	2.3	5.8	4.6	2.6	2.6
1	1.7	2.5	2.48	2.8	6.6	5.3	3.0	2.8
1 ½	3.4	3.2	3.01	3.6	9.4	7.3	3.6	3.6
2	5.2	7.0	3.41	3.9	11.0	8.4	4.0	4.1

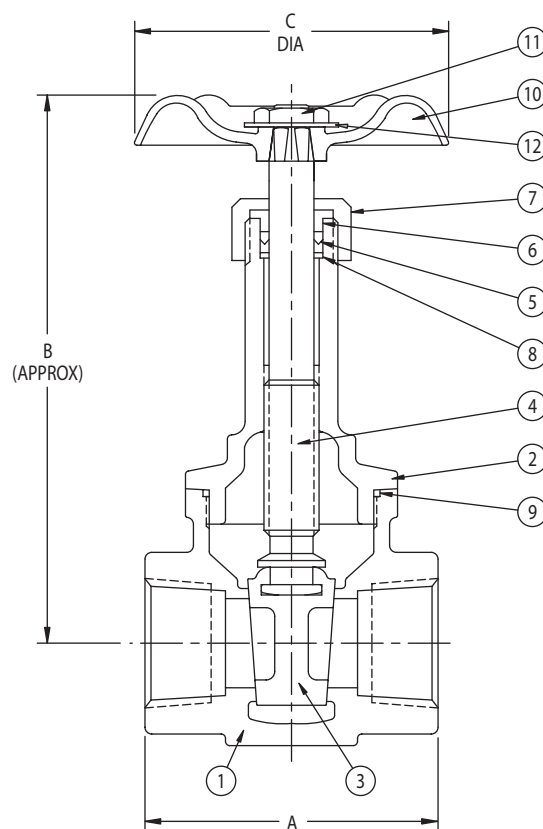


Fig. 90

Class 150 • OS&Y • Solid Wedge Disc

Figure 110
Threaded Ends

Figure 114
Socket Weld Ends

Size Range:

½ through 2 inches

Design Features:

- Bolted Bonnet
- Rising Stem
- Integral Seat
- Retained Gasket
- MSS SP-42
- API 603 (except for end connections)

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 Rating	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	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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
½	6.8	2.76	8.1	3.9	.38
¾	7.2	3.15	8.5	3.9	.50
1	9.8	3.54	9.1	3.9	.50
1½	14.9	4.13	11.0	5.5	.50
2	20.1	4.72	12.6	6.3	.62

*For Figure 114 only - Socket weld depth

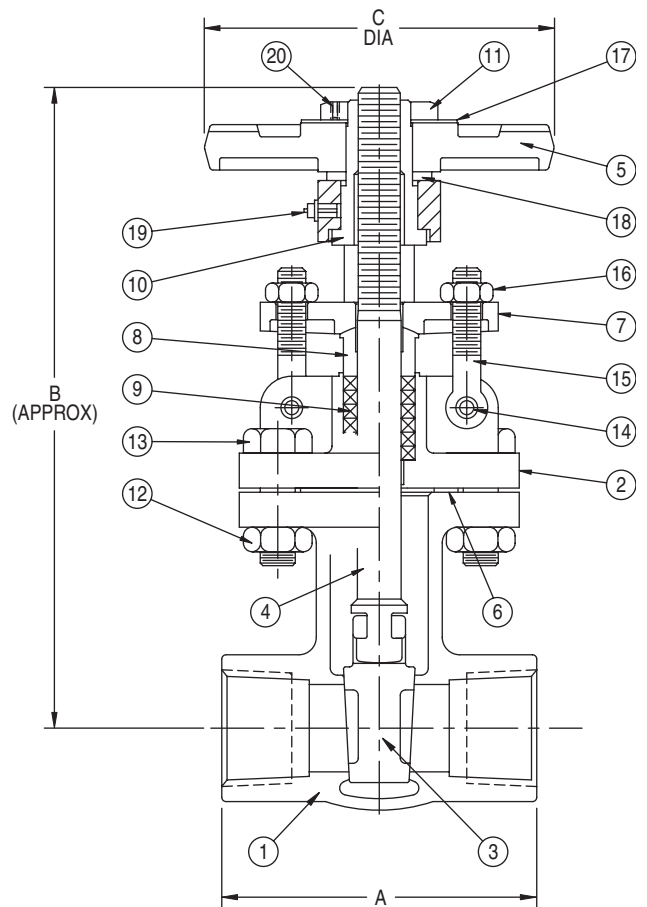


Fig. 110

Stainless Steel Gate Valves

Class 150 • OS&Y • Solid or Flexible Wedge Disc

Figure 117

Raised Face, Flanged Ends, Solid Wedge Disc

Figure 117F

Raised Face, Flanged Ends, Flexible Wedge Disc

Size Range:

½ through 24 inches

Design Features:

- Bolted Bonnet
- Rising Stem
- Integral Seat
- Retained Gasket
- MSS SP-42
- API 603

Industry Standards

End Flanges	ASME B16.5
Wall Section	ASME B16.34
Face-to-Face	ASME B16.10
Pressure-Temp Ratings	ASME B16.34
Design	API 603
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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	7.4	4.25	8.1	3.9
¾	8.3	4.63	8.5	3.9
1	10.0	5.00	9.1	3.9
1½	18.0	6.50	11.0	5.5
2	27.0	7.00	12.6	6.3
2½	37.5	7.50	15.1	6.3
3	46.3	8.00	16.7	7.9
4	75.0	9.00	20.9	9.8
6	128.0	10.50	28.7	12.4
8	216.1	11.50	36.9	14.0
10	291.1	13.00	43.9	14.0
12	436.6	14.00	51.9	15.7
14	703.4	15.00	58.5	17.7
16	1018.7	16.00	66.9	19.7
18	1190.7	17.00	74.8	22.0
20	1631.7	18.00	82.5	28.0
24	2434.3	20.00	97.4	31.5

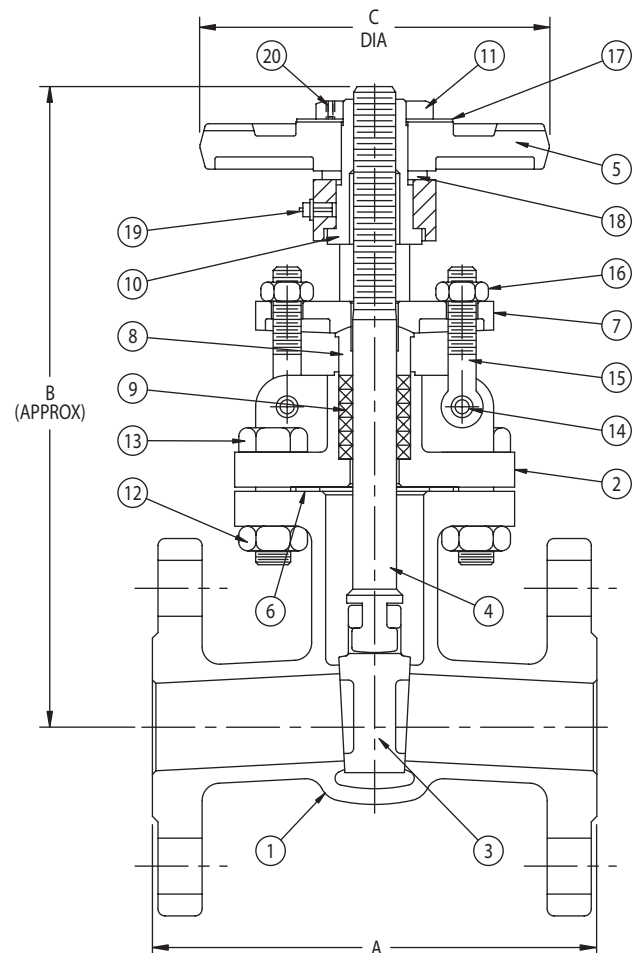


Fig. 117



Class 300 • OS&Y • Solid Wedge Disc

Figure 2110

Threaded Ends

Figure 2114

Socket Weld Ends

Size Range:

½ 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. Rating	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	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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
½	6.8	3.23	8.1	3.9	.38
¾	7.0	3.23	8.1	3.9	.50
1	10.7	4.13	9.9	5.4	.50
1½	19.5	4.92	12.0	7.9	.50
2	23.5	5.31	13.4	7.9	.62

*For Figure 2114 only - Socket weld depth

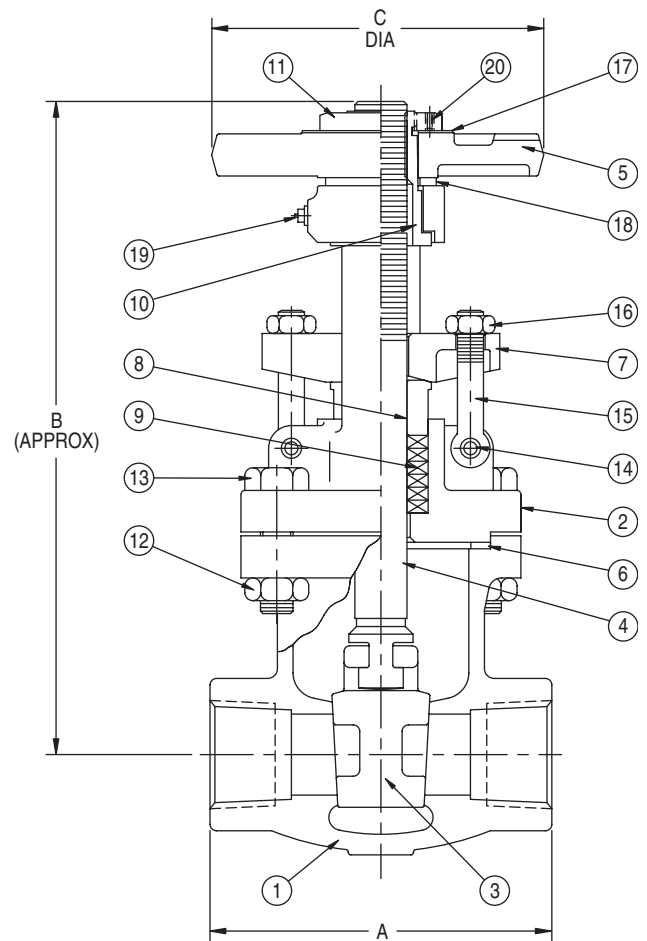


Fig. 2110

Stainless Steel Gate Valves

FIGURES
2117 • 2117F

Class 300 • OS&Y • Solid or Flexible Wedge Disc

Figure 2117

Raised Face, Flanged Ends, Solid Wedge Disc

Figure 2117F

Raised Face, Flanged Ends, Flexible Wedge Disc

Size Range:

½ through 24 inches

Design Features:

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

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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	--	5.50	8.1	3.9
¾	--	6.00	8.1	3.9
1	--	6.50	9.9	5.4
1 ½	--	7.50	12.0	7.9
2	--	8.50	13.4	7.9
2 ½	68.4	9.50	17.0	7.9
3	90.4	11.12	19.3	8.8
4	119.1	12.00	23.1	9.8
6	251.4	15.88	31.6	14.0
8	478.5	16.50	39.4	15.7
10	557.9	18.00	47.9	17.7
12	917.3	19.75	55.8	19.7
14	957.0	30.00	59.8	22.0
16	1206.1	33.00	66.7	24.8
18	1764.0	36.00	75.2	28.0
20	3281.0	39.00	83.4	31.5
24	4956.8	45.00	98.1	35.4

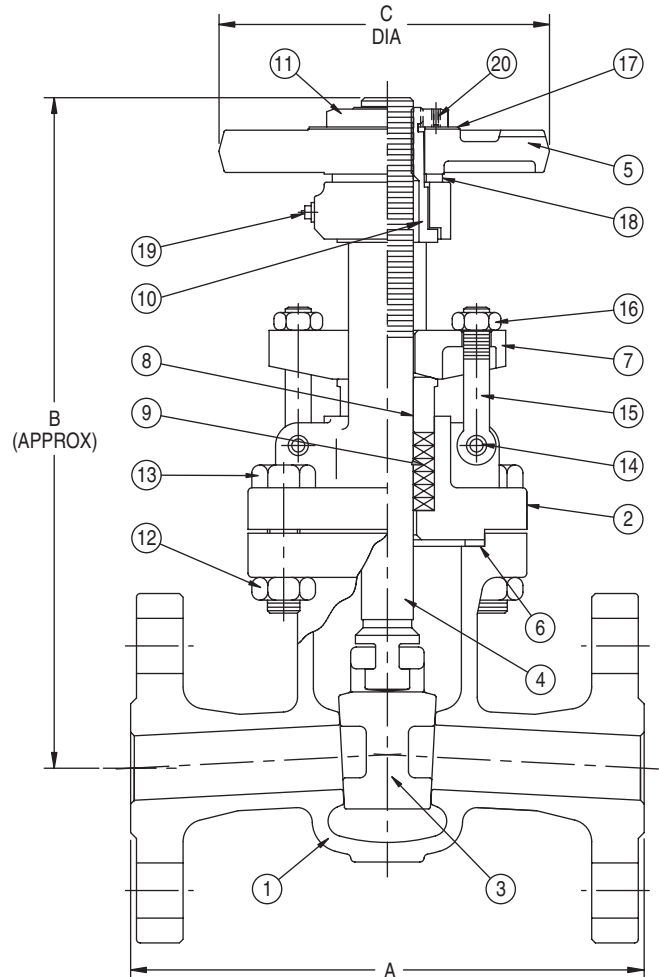


Fig. 2117



Class 600 • OS&Y • Solid Wedge Disc

Figure 4210

Threaded Ends

Figure 4214

Socket Weld Ends

Size Range:

½ through 2 inches

Design Features:

- Bolted Bonnet
- Retained Gasket
- Rising Stem
- Integral Seat
- 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 Standards
Pressure-Temp Rating	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 A351 CF8M
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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)			
		A	B (open)	C	D*
½	6.8	3.23	8.1	3.9	.38
¾	7.0	3.23	8.1	3.9	.50
1	10.7	4.13	9.9	5.4	.50
1½	19.5	4.92	12.0	7.9	.50
2	23.5	5.31	13.4	7.9	.62

*For Figure 4214 only - Socket weld depth

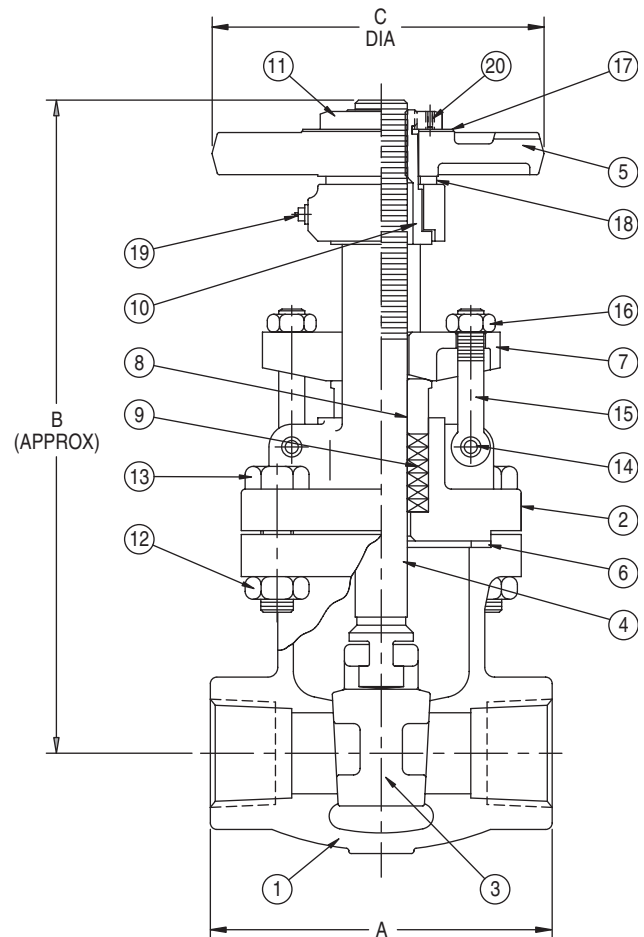


Fig. 4210

Stainless Steel Gate Valves

FIGURES
4217 • 4117F

Class 600 • OS&Y • Solid or Flexible Wedge Disc

Figure 4217

½ to 2 inches, Raised Face, Flanged Ends

Figure 4117F

2 ½ to 24 inches, Raised Face, Flanged Ends

Size Range:

½ through 24 inches

Design Features:

- Bolted Bonnet
- Inside Screw
- Rising Stem
- Integral Seat
- Tested to API 598
- ASME B16.34

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 A276 T304
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	ASTM A536
19	Grease Fitting	304 SS
20	Set Screw	Steel

Dimensions and Weights

Valve Size	Weight (lbs)	Dimensions (inches)		
		A	B (open)	C
½	---	6.50	8.1	3.9
¾	---	7.50	8.1	3.9
1	---	8.50	9.9	5.4
1 ½	---	9.50	12.0	7.9
2	---	11.50	13.4	7.9
2 ½	111.8	13.00	18.0	8.8
3	145.9	14.00	20.1	9.8
4	277.1	17.00	25.0	14.0
6	534.8	22.00	37.7	17.7
8	938.4	26.00	42.4	19.7
10	1390.5	31.00	48.9	24.8
12	1993.4	33.00	56.7	28.0
14	2669.3	35.00	64.1	31.5
16	3121.4	39.00	71.1	35.4
18	4915.5	43.00	78.1	35.4
20	6223.4	47.00	89.9	43.0
24	8693.3	55.00	107.0	43.0

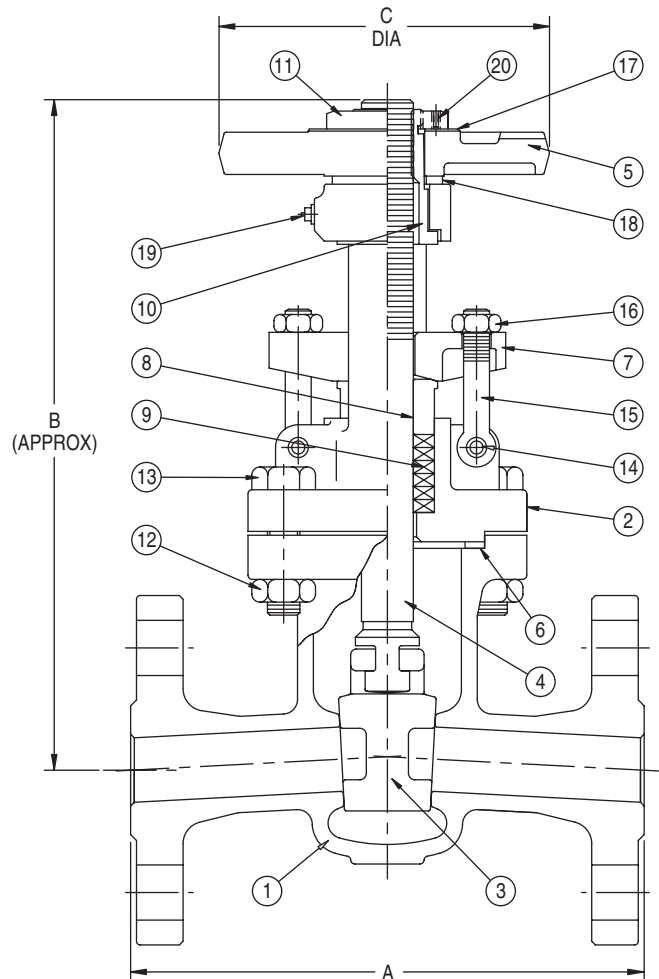


Fig. 4217

