

CRANE[®]

Energy Flow Solutions

Stockham Bronze Valves



 **STOCKHAM**[®]

SETTING THE STANDARD IN SERVICE

The Stockham Pledge

Stockham is committed to setting the standard in quality service to the Commercial Construction industry.

Our pledge to our customers is:

- A friendly voice every time you call
- Quick response to your quotes and questions
- On-time delivery
- Accurate shipments

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Cross Reference For Commonly Used Valves

BRONZE

GLOBE

	<u>Stockham</u>	<u>NIBCO</u>	<u>Milwaukee</u>
Class 125	B-16	T-211-B	502
Class 300 SS Trim	B-74	T-276AP	593A
	B-66	T-275-B	572

GATE

Class 125 RS-Thread	B-100	T-111	148
Class 125 NRS-Thread	B-103	T-113	105
Class 125 RS-Solder	B-108	S-111	149
Class 125 NRS-Solder	B-104	S-113	115
Class 150 Union Bonnet	B-120	T-134	1151
Class 300 SS Trim	B-145	T-174-SS	1184

CHECK

Class 125 Thread	B-319Y	T-413-BY	509
Class 125 Solder	B-309Y	S-413-B	1509
Class 300 Swing Check	B-375	T-473-B	507
	B-321	T-433-B	515

IRON

GATE

	<u>Stockham</u>	<u>NIBCO</u>	<u>Milwaukee</u>	<u>Powell</u>	<u>Walworth</u>
Class 125 NRS	G-612	F-619	F2882 A	1787	W719F
Class 125 OS&Y	G-623	F-617-0	F2885 A	1793	W726F
Class 250 OS&Y	F-667	F-667-0	F2894 A	1797	W786F

GLOBE

Class 125	G-512	F-718-B	F2981 A	241	W906F
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SWING CHECK

Class 125 Flanged	G-931	F-918-B	F2974 A	559	W928F
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STOP CHECK

Class 250 Straight-way Y-Pattern	F-540	----	----	----	----
Class 250 Angle Y-Pattern	F-541	F-869-B	----	----	----

Pressure-Temperature Ratings

Stockham bronze valves have been specified, installed, and are proven performers in commercial and industrial facilities internationally. The broadness and unsurpassed quality of the Stockham line appeal to consulting engineers, mechanical contractors, and industrial users alike.

QUALITY MANAGEMENT

Stockham is committed to a philosophy of total quality management. It begins with design, to comply with pertinent MSS and ASME Standards. Continuous improvement is applied in a process to improve materials and services to meet or exceed customer needs.

MATERIALS

The basic bronze pressure-containing parts conform to either the American Society for Testing and Materials Specifications B-61 or B-62. Materials for most valve parts are listed in this catalog section. Changes in materials may be made without notice.

PRESSURE-TEMPERATURE RATINGS, NONSHOCK

The pressure classes available have these rated working pressures:

Press. Class	PRESSURE-PSI					
	125	150		200	300	
End Conn.	THD	THD	FLG	THD	THD	FLG
Temp. (Deg. F)	MATERIAL					
	ASTM B-62			ASTM B-61		
-20 to						
150	200	300	225	400	1000	500
200	185	270	210	375	920	475
250	170	240	195	350	830	450
300	155	210	180	325	740	425
350	155	210	165	300	650	400
400	-	-	-	275	560	375
406	125	150	150	-	-	-
450	120	145	-	250	480	350
500	-	-	-	225	390	325
550	-	-	-	200	300	300

NOTES:

- Buna-N Disc Valves limited to 150°F Temperatures.
- PTFE and Viton Disc Valves are limited to 450°F Temperatures.
- For lower temperatures, Pressures for Temperatures -20 to 150 shall apply - Uses for low temperature shall conform to the rules of Applicable Codes under which they are to be used.
- P-T Ratings-ASME B16.24-1971.
- Some codes (i.e.-ASME BPVC, Section 1) limit the rating temperatures of B-62 material to 406°F.
- Solder End Valves are limited by temperatures which affect the strength of the solder joint. These ratings must be adjusted as below.
- Internal pressures great enough to burst castings can be developed during the formation of ice. Valves should be protected so that contained media does not freeze.
- Class 300 Valves, 2½" and 3" are rated by MSS SP-80 to 600 psi CWP maximum including B-375 bronze check valve.
- Class 200 & 300 valves made of ASTM B62 are limited to 450°F.

ADJUSTED PRESSURE RATINGS

Joints made of Copper Tube and Solder End Valves
(Pounds per square inch)
Extracted from MSS SP-80

SOLDER USED IN JOINTS	SERVICE TEMPERATURE DEGREES F	WATER, including other non-corrosive liquids and gases			SATURATED STEAM (psig)
		Valve Sizes			Valve Sizes
		¼" through 1"	1¼" through 2"	2-½" through 4"	¼" through 4"
50-50 Tin-Lead (ASTM B-32, Alloy Grade 50-A)	100	200	175	150	-
	150	150	125	100	-
	200	100	90	75	-
	250	85	75	50	15
95-5 Tin-Antimony	100	500	400	300	-
	150	400	350	275	-
	200	300	250	200	-
	250	200	175	150	15

Design: Gate, Globe & Angle Valves Classes 125, 150, 200 and 300

Gate Valves Classes 125, 150, 200 and 300

Handwheel—Strong malleable handwheels dissipate heat rapidly and are accurately fitted to stems.

Nameplate—Aluminum nameplates are used for valve identification.

Stem—Copper-silicon bronze stems have excellent corrosion resistance and superior strength.

Bonnet—Bonnets are either threaded, union, or bolted type. Ample packing chamber depth with adequate packing is provided for maximum life.

Wedge—All wedges are the tapered solid type. Wedge guides assure alignment and minimize friction on seats. Wedges are completely out of the line of flow when valves are open.

Body—Bodies have guides for close and accurate disc travel. Threaded pipe ends conform to the ASME B.1.20.1 Standard. Solder ends conform to the ASME Standard for Solder Joint Fittings B16.18. They are suitable for use with Types K, L, and M copper tubing handling nonflammable materials. End flanges of flanged valves are faced and drilled to meet ASME B16.24, the standard covering Classes 150 and 300 bronze flanges.

Seat Rings—Certain valves are furnished with stainless steel seat rings, swaged into bodies. This provides wear resistance and improves corrosion resistance and longer life.

Globe and Angle Valves Classes 125, 150, 200 and 300

Handwheel—Strong malleable handwheels dissipate heat rapidly and are accurately fitted to stems.

Nameplate—Aluminum nameplates are used for valve identification.

Stem—Copper-silicon bronze stems have excellent corrosion resistance and superior strength.

Bonnet—Bonnets are either threaded, union, or bolted type. Ample packing chamber depth with adequate packing is provided for maximum life.

Seat Ring—Renewable seats are furnished on most Class 150, 200, and 300 valves. The materials for each valve in this catalog are clearly specified.

Disc—Discs may be metal in the plug, fullway, needle-type design or PTFE. The available materials are noted on each valve page.

Body—Bodies are designed for easy flow with ample wall sections for adequate strength. Threaded pipe ends conform to the ASME B1.20.1. Solder ends conform to the ASME Standard for Solder Joint Fittings B16.18. They are used with Types K, L and M copper tubing handling nonflammable materials.

End flanges of flanged valves are faced and drilled to meet ASME B16.24, the standard covering Classes 150 and 300 bronze flanges.

Design: Swing and Lift Check Valves Classes 125, 150, 200 and 300

Body—Threaded pipe ends conform to ASME B1.20.1. Most threaded end valves can be bored for silver brazed end connections. Solder ends comply with the ASME Standard for Solder Joint Fittings B16.18 and are suitable for use with Types K, L, and M copper tubing handling nonflammable materials.

End flanges of flanged valves are faced and drilled to meet ASME B16.24.

Cap—Caps on threaded end check valves have threaded or union body connections with sturdy wrench grips.

Disc—Discs may be nonmetallic (PTFE, Viton or Buna-N) or metal (bronze). The available materials are noted on each valve page. Disc and disc holders are guided during travel by caps or bodies. The nonmetallic discs are securely fastened in disc holders and are easily replaced.

Hinge, Hinge Pin, Side Plug—Swing check hinges are mounted on type 304 hinge pins which are held in place by side plugs.

Marking—For identification, each globe and gate valve has a metal identification plate under the handwheel nut showing the Stockham figure number.

Testing—Before shipment, each and every valve is individually tested under pressure for soundness of body castings and tight closure.

Packaging—All valves are shipped in sturdy cardboard containers. This packaging protects the valves during shipment and facilitates storage.

Weights and Dimensions—Complete information on weights and dimensions is incorporated on the same pages with the valve listings. Weights and dimensions are furnished for estimating purposes only and are subject to change without notice except for basic dimensions established by accepted standards.

Cv COEFFICIENTS*

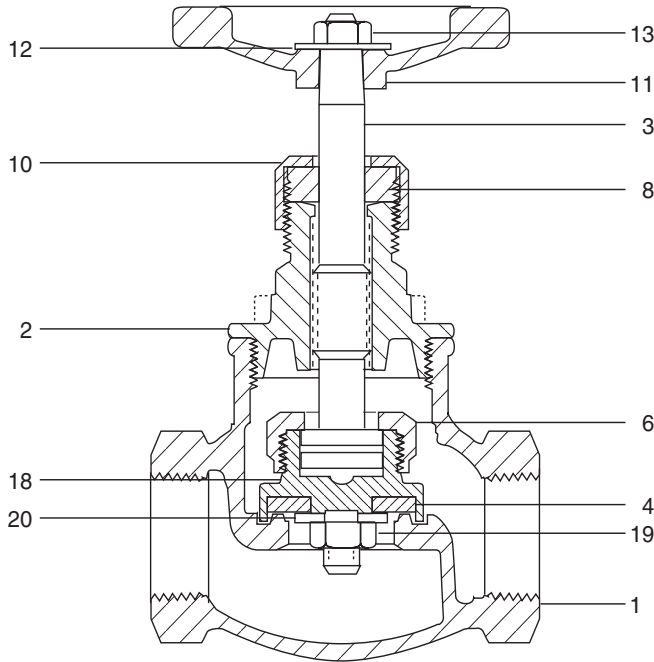
(For Estimating Purposes Only)

SIZE	GATE	GLOBE		ANGLE	CHECK		
		Std.	Needle		Y-Type Swing	Std. Swing	Lift
1/8	4.66	0.71	0.16	-	-	1.86	-
1/4	8.52	1.31	0.37	1.97	2.41	3.41	0.98
3/8	15.64	2.40	0.51	3.61	4.42	6.25	1.81
1/2	24.89	3.82	1.09	5.75	7.04	9.96	2.87
3/4	45.40	6.96	2.25	10.48	12.84	18.16	5.24
1	76.70	11.77	-	17.71	21.70	30.68	8.86
1 1/4	135.73	20.82	-	31.35	38.40	54.29	15.67
1 1/2	189.09	29.01	-	43.67	53.48	75.64	21.83
2	327.67	50.26	-	75.67	92.67	131.07	37.84
2 1/2	480.32	73.68	-	110.93	-	192.13	55.46
3	741.65	113.76	-	171.28	-	296.66	85.64

* Fully open. Cv = GPM @ 1 PSI Pressure Drop, 60°F Water

Figure B-13T

Class 125 • Threaded Bonnet • PTFE Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	PTFE	
6	Disc Stem Ring	($\frac{3}{8}$ " - $\frac{3}{4}$ ")	B-16 H02
		(1" - 2")	B-61 C92200
8	Packing	Anchor/Carboform Type II	
10	Packing Nut	($\frac{3}{8}$ " - 1 $\frac{1}{2}$ ")	B-16 H02
		(2")	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (CAD Dicro Finish)	
18	Disc Holder	($\frac{3}{8}$ " - 1 $\frac{1}{2}$ ")	B-16 H02
		($\frac{3}{4}$ " - 2")	B-62 C83600
19	Disc Retaining Nut	Brass	B-16 H02
20	Disc Retaining Washer	Brass	B-16 H02

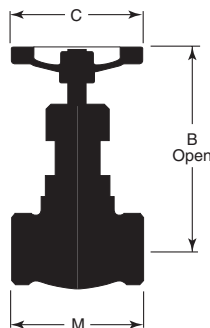
Industry Standards

With the exception of the port opening, complies with MSS SP-80 Type 2

See Page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



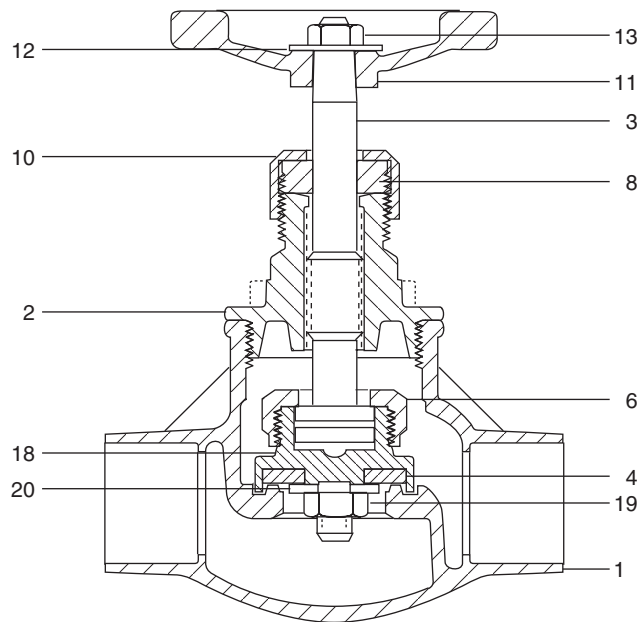
Valve Size	Dimensions			Wt.
	B	C	M	
$\frac{3}{8}$	3.66	1.75	1.94	.71
	(93)	(44)	(49)	(.32)
$\frac{1}{2}$	3.50	2.75	2.56	1.02
	(89)	(70)	(65)	(.46)
$\frac{3}{4}$	4.31	2.75	2.96	1.58
	(110)	(70)	(75)	(.72)
1	4.76	3.25	3.50	2.34
	(121)	(83)	(89)	(1.06)
1 $\frac{1}{4}$	5.26	4.00	3.86	3.56
	(134)	(102)	(98)	(1.62)
1 $\frac{1}{2}$	5.83	4.00	4.58	5.06
	(148)	(102)	(116)	(2.30)
2	6.64	4.75	5.70	8.50
	(169)	(121)	(145)	(3.86)

Bronze Globe Valves



Figure B-14T

200 CWP • Threaded Bonnet • PTFE Disc • Solder Ends



Materials of Construction

No.	Description		Material	ASTM Spec.
1	Body		Bronze	B-62 C83600
2	Bonnet		Bronze	B-62 C83600
3	Stem		Bronze	B-371 C69400
4	Disc		PTFE	
6	Disc Stem Ring	($\frac{3}{8}$ " - $\frac{3}{4}$ ")	Brass	B-16 H02
		(1" - 2")	Bronze	B-61 C92200
8	Packing		Anchor/Carboform Type II	
10	Packing Nut	($\frac{3}{8}$ " - 1 $\frac{1}{2}$ ")	Brass	B-16 H02
		(2")	Bronze	B-584 C84400
11	Handwheel		Malleable Iron	A-197
12	ID Plate		Aluminum	
13	Handwheel Nut		Steel (Cad Dicro Finish)	
18	Disc Holder	($\frac{3}{8}$ " - $\frac{1}{2}$ ")	Brass	B-16 H02
		($\frac{3}{4}$ " - 2")	Bronze	B-62 C83600
19	Disc Retaining Nut		Brass	B-16 H02
20	Disc Retaining Washer		Brass	B-16 H02

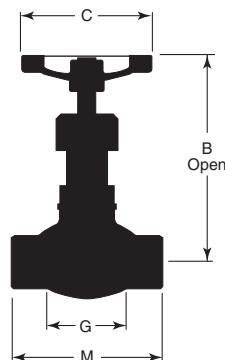
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

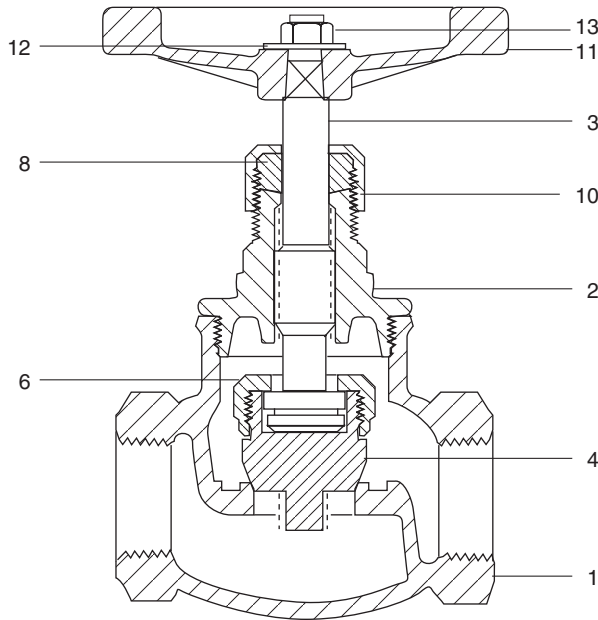
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions				Wt.
	B	C	G	M	
$\frac{3}{8}$	4.25	2.75	2.00	2.72	.90
	(108)	(70)	(51)	(69)	(.41)
$\frac{1}{2}$	3.61	2.75	1.70	2.72	.90
	(92)	(70)	(43)	(69)	(.41)
$\frac{3}{4}$	4.51	2.75	2.00	3.52	1.50
	(115)	(70)	(50)	(89)	(.68)
1	4.84	3.25	2.40	4.24	2.10
	(123)	(83)	(61)	(108)	(.95)
$1\frac{1}{4}$	5.20	4.00	2.75	4.71	2.90
	(132)	(102)	(70)	(120)	(1.32)
$1\frac{1}{2}$	5.82	4.00	3.32	5.52	4.50
	(148)	(102)	(84)	(140)	(2.05)
2	6.65	4.75	4.24	6.97	7.40
	(169)	(121)	(108)	(177)	(3.36)

Figure B-16

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



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	(1/4" - 3/8") Brass (1/2" - 2") Bronze	B-16 H02 B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	(1/4" - 3/8") Bronze (1/2" - 3/4") Bronze (1" - 2") Brass	B-371 C69400 B-371 C69400 B-62 C83600
6	Disc Stem Ring	(1/4" - 3/4") Brass (1" - 2") Bronze	B-16 H02 B-61 C92200
8	Packing	Anchor/Carboform type II	
10	Packing Nut	(1/4" - 1 1/2") Brass (2") Bronze	B-16 H02 B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (CAD Dicro Finish)	

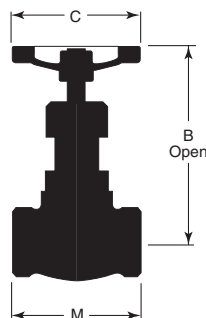
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

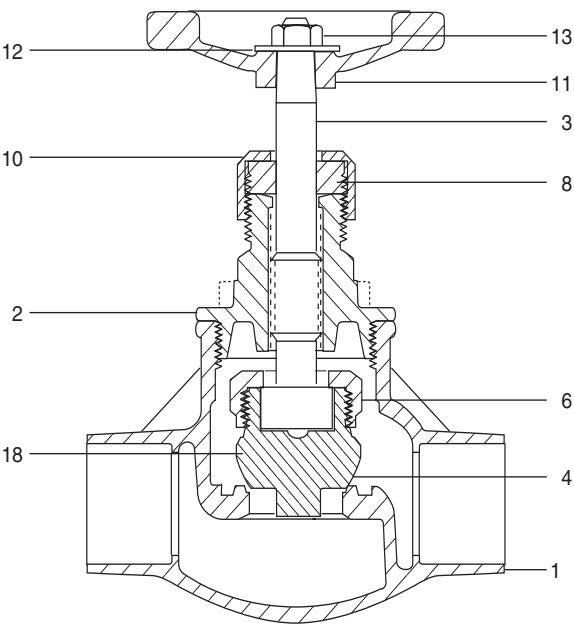


Valve Size	Dimensions			Wt.
	B	C	M	
1/4	3.73 (95)	2.75 (70)	1.94 (49)	.68 (.31)
3/8	3.63 (92)	2.75 (70)	1.94 (49)	.59 (.28)
1/2	3.41 (87)	2.75 (70)	2.56 (65)	1.02 (.46)
3/4	4.37 (111)	2.75 (70)	2.96 (75)	1.58 (.72)
1	4.92 (125)	3.25 (83)	3.50 (89)	2.34 (1.06)
1 1/4	5.24 (133)	4.00 (102)	3.86 (98)	3.56 (1.62)
1 1/2	5.75 (146)	4.00 (102)	4.58 (116)	5.06 (2.30)
2	6.56 (167)	4.75 (121)	5.70 (145)	8.50 (3.86)

Bronze Globe Valves

Figure B-17

200 CWP • Threaded Bonnet • Brass/Bronze Disc • Solder Ends



Materials of Construction

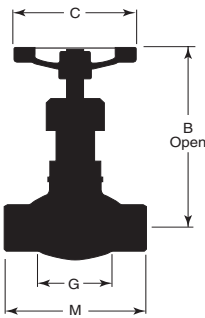
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	(1/2" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
6	Disc Stem Ring	(1/2" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
10	Packing Nut	(1/2" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

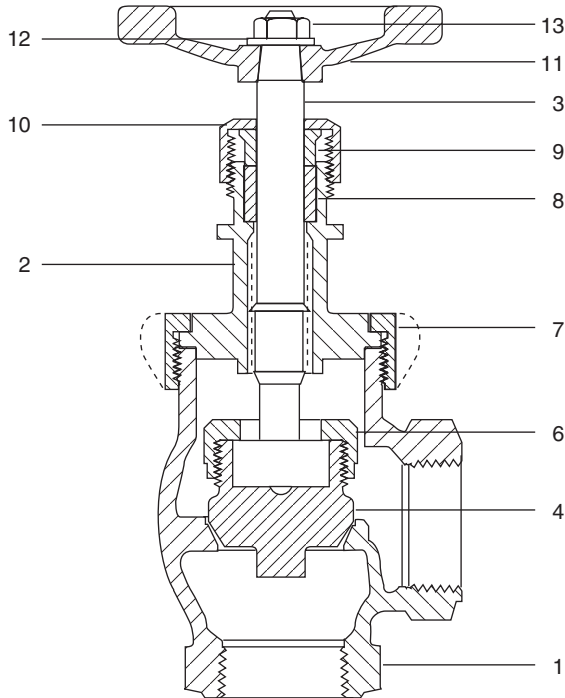
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions				Wt.
	B	C	G	M	
1/2	3.61 (92)	2.75 (70)	1.70 (43)	2.72 (69)	.90 (.41)
	4.51 (115)	2.75 (70)	2.00 (50)	3.52 (89)	1.50 (.68)
1	4.84 (123)	3.25 (83)	2.40 (61)	4.24 (108)	2.10 (.95)
	5.20 (132)	4.00 (102)	2.75 (70)	4.71 (120)	2.90 (1.32)
1 1/4	5.82 (148)	4.00 (102)	3.32 (84)	5.52 (140)	4.50 (2.05)
	6.65 (169)	4.75 (121)	4.24 (108)	6.97 (177)	7.40 (3.36)

Figure B-220

Class 150 • Union Bonnet • Brass/Bronze Disc • Threaded Ends



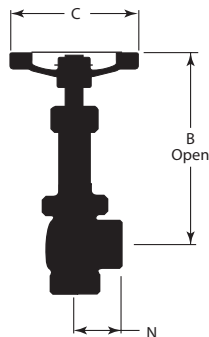
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-371 C69400
4	Disc Stem	(1/4" - 3/8") Bronze	B-371 C69400
4	Disc	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-62 C83600
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-62 C83600
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings



Dimensions and Weights

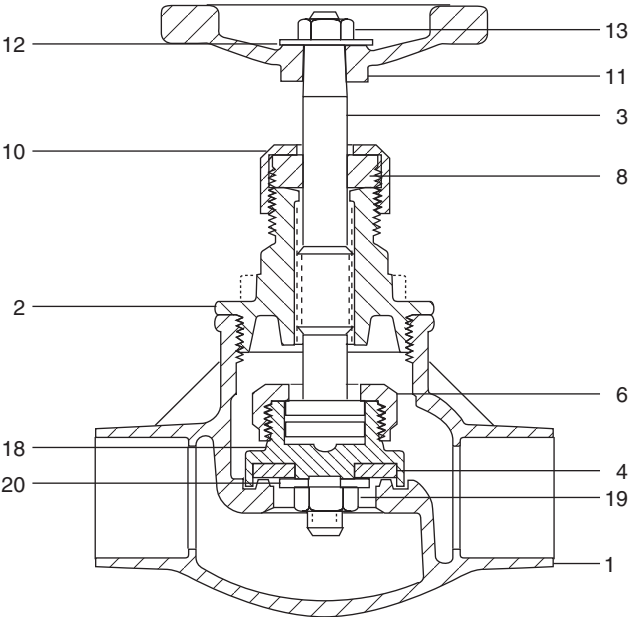
Inches (millimeters) - Pounds (kilograms)

Valve Size	Dimensions			Wt.
	B	C	N	
1/4	4.34	2.75	.94	.70
	(110)	(70)	(24)	(.32)
3/8	4.34	2.75	.94	.80
	(110)	(70)	(24)	(.36)
1/2	4.02	2.75	1.15	1.60
	(102)	(70)	(29)	(.73)
3/4	4.98	2.75	1.39	2.30
	(126)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 1/4	6.17	4.00	2.00	5.00
	(157)	(102)	(50)	(2.25)
1 1/2	6.85	4.00	2.18	7.10
	(174)	(102)	(55)	(3.20)
2	7.37	4.75	2.69	11.40
	(184)	(121)	(68)	(5.14)

Bronze Globe Valves

Figure B-20T

300 CWP • Threaded Bonnet • PTFE Disc • Solder Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	PTFE	
6	Disc Stem Ring	($\frac{3}{8}$ " - $\frac{3}{4}$ ") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
10	Packing Nut	($\frac{3}{8}$ " - 1 $\frac{1}{2}$ ") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	
18	Disc Holder	($\frac{3}{8}$ " - $\frac{1}{2}$ ") Brass	B-16 H02
		($\frac{3}{4}$ " - 2") Bronze	B-62 C83600
19	Disc Retaining Nut	Brass	B-16 H02
20	Disc Retaining Washer	Brass	B-16 H02

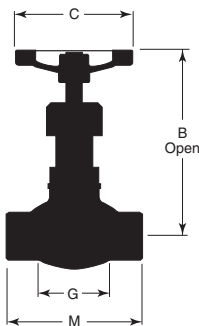
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

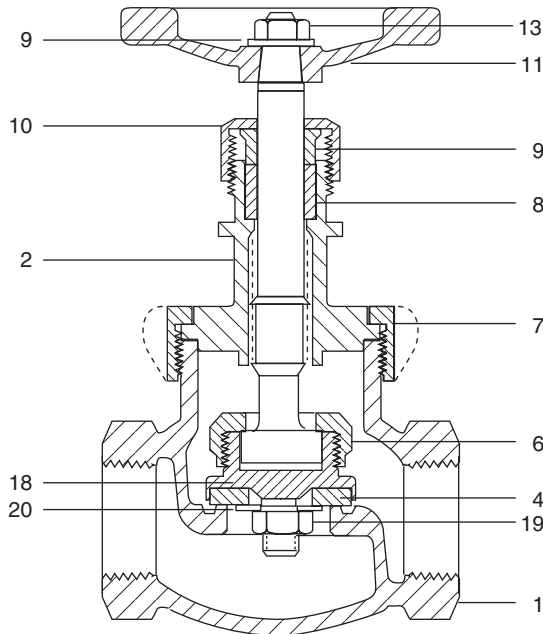
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions				Wt.
	B	C	G	M	
$\frac{3}{8}$	4.28 (109)	2.13 (54)	1.70 (43)	2.73 (69)	1.00 (.45)
	3.61 (92)	2.75 (70)	1.70 (43)	2.73 (69)	.90 (.41)
$\frac{1}{2}$	4.51 (115)	2.75 (70)	2.00 (50)	3.52 (89)	1.50 (.68)
	4.84 (123)	3.25 (83)	2.40 (61)	4.24 (108)	2.10 (.95)
1	5.20 (132)	4.00 (102)	2.75 (70)	4.71 (120)	2.90 (1.32)
	5.82 (148)	4.72 (120)	3.32 (84)	5.52 (140)	4.50 (2.03)
1 $\frac{1}{2}$	6.65 (169)	5.28 (134)	4.24 (108)	6.97 (177)	7.40 (3.33)

Figure B-22T

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



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 3") Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	PTFE	
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-62 C83600
8	Packing	Anchor/Carboform Type II	
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2" - 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	
*14	Gasket	(2 1/2" - 3") Non-Asbestos	
*15	Driven-In Stud	(2 1/2" - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 1/2" - 3") Steel	A-563
18	Disc Holder	(1/4" - 1/2") Brass	B-16 H02
		(3/4" - 3") Bronze	B-62 C83600
19	Disc Retaining Nut	Brass	B-16 H02
20	Disc Retaining Washer	Brass	B-16 H02

*2 1/2" and 3" have Bolted Bonnet

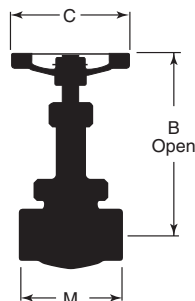
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

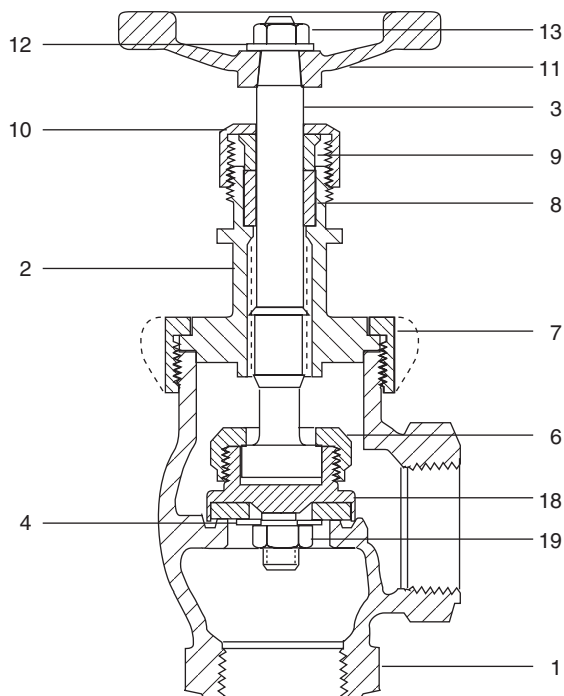


Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.34	2.75	1.94	.90
	(110)	(70)	(49)	(.41)
3/8	4.34	2.75	1.94	.80
	(110)	(70)	(49)	(.36)
1/2	4.14	2.75	2.56	1.50
	(105)	(70)	(65)	(.68)
3/4	5.13	2.75	2.96	2.80
	(130)	(70)	(75)	(1.27)
1	5.45	3.25	3.50	3.40
	(138)	(83)	(89)	(1.55)
1 1/4	6.42	4.00	4.02	4.70
	(163)	(102)	(102)	(2.14)
1 1/2	6.98	4.00	4.58	7.10
	(177)	(102)	(116)	(3.23)
2	7.50	4.75	5.70	11.60
	(190)	(121)	(145)	(5.27)
*2 1/2	8.87	7.00	7.25	21.90
	(225)	(178)	(184)	(9.95)
*3	10.28	7.00	8.50	34.10
	(261)	(178)	(216)	(15.50)

Bronze Angle Valves

Figure B-222T

Class 150 • Union Bonnet • PTFE Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	PTFE	
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	
18	Disc Holder	(1/4" - 1/2") Brass	B-16 H02
		(3/4" - 2") Bronze	B-62 C83600
19	Disc Retaining Nut	Brass	B-16 H02
20	Disc Retaining Washer	Brass	B-16 H02

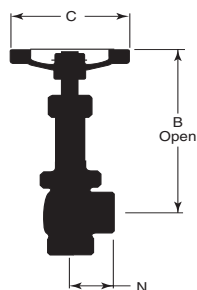
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

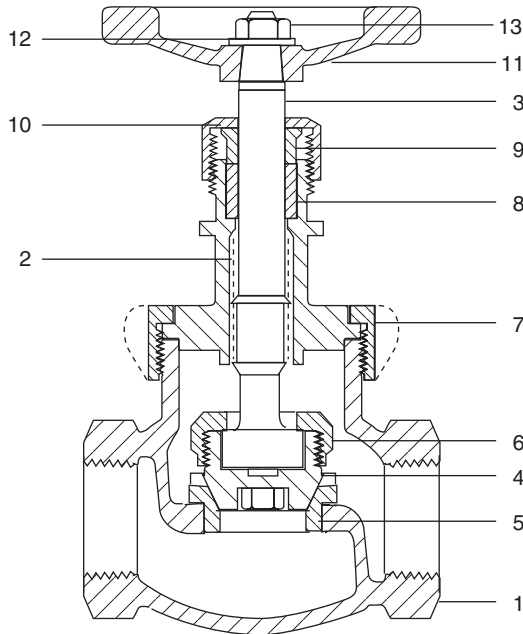
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	N	
1/4	4.34	2.75	.94	.70
	(110)	(70)	(24)	(.32)
3/8	4.34	2.75	.94	.80
	(110)	(70)	(24)	(.36)
1/2	4.02	2.75	1.15	1.60
	(102)	(70)	(29)	(.73)
3/4	4.98	2.75	1.39	2.30
	(126)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 1/4	6.17	4.00	2.00	5.00
	(157)	(102)	(50)	(2.25)
1 1/2	6.85	4.00	2.18	7.10
	(174)	(102)	(55)	(3.20)
2	7.37	4.75	2.69	11.40
	(184)	(121)	(68)	(5.14)

Figure B-29

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



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 3") Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	Stainless Steel	Type 420F
5	Seat Ring	Stainless Steel	Type 420F
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-61 C92200
7	Union Bonnet Ring (1/4" - 2")	Bronze	B-62 C83600
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2" - 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	
*14	Gasket	(2 1/2" - 3") Non-Asbestos	
*15	Driven-In Stud	(2 1/2" - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 1/2" - 3") Steel	A-563

*2 1/2" and 3" have Bolted Bonnet

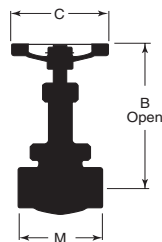
Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



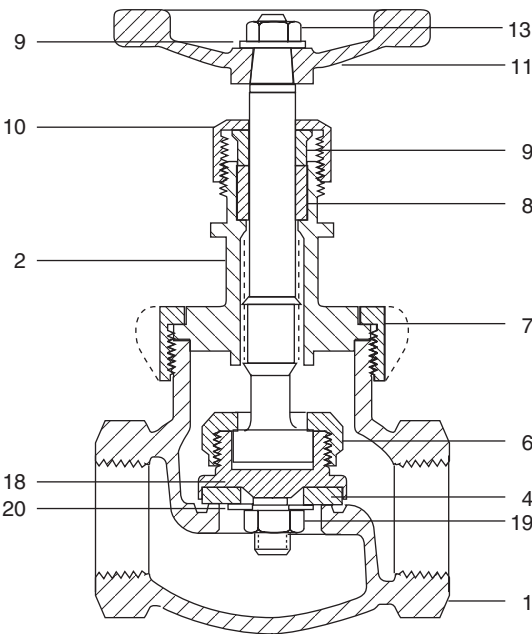
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.39	2.75	1.94	.80
	(112)	(70)	(49)	(.36)
3/8	4.39	2.75	1.94	1.10
	(112)	(70)	(49)	(.45)
1/2	4.09	2.75	2.56	1.70
	(104)	(70)	(65)	(.77)
3/4	4.18	2.75	2.96	2.40
	(106)	(70)	(75)	(1.09)
1	5.45	3.25	3.50	2.50
	(138)	(83)	(89)	(1.14)
1 1/4	6.36	4.00	4.02	5.50
	(162)	(102)	(102)	(2.50)
1 1/2	6.95	4.00	4.58	7.60
	(177)	(102)	(116)	(3.45)
2	7.55	4.75	5.70	13.50
	(192)	(121)	(145)	(6.14)
*2 1/2	8.92	7.00	7.25	24.5
	(227)	(178)	(184)	(11.11)
*3	10.16	7.00	8.50	48.1
	(258)	(178)	(216)	(21.86)

Bronze Globe Valves

Figure B-32T



Class 200 • Union Bonnet • RTFE Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B16 H02
		(1/2" - 2") Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc	RTFE	
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
10	Packing Nut	(1/4" - 1-1/2") Brass	B16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	
18	Disc Holder	(1/4" - 1/2") Brass	B16 H02
		(3/4" - 2") Bronze	B-61 C92200
19	Disc Retaining Nut	Brass	B16 H02
20	Disc Retaining Washer	Brass	B16 H02

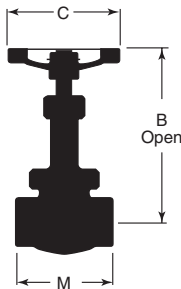
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

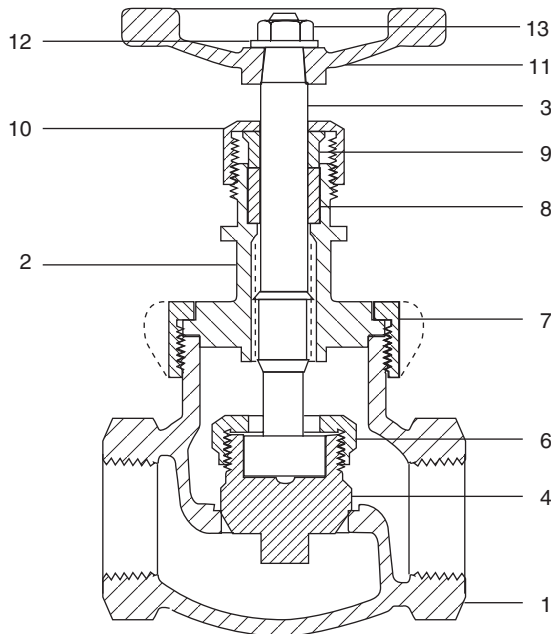
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.34	2.75	1.94	.90
	(110)	(70)	(49)	(.41)
3/8	4.34	2.75	1.94	.80
	(110)	(70)	(49)	(.36)
1/2	4.14	2.75	2.56	1.50
	(105)	(70)	(65)	(.68)
3/4	5.13	2.75	2.96	2.80
	(130)	(70)	(75)	(1.27)
1	5.45	3.25	3.50	3.40
	(138)	(83)	(89)	(1.55)
1 1/4	6.42	4.00	4.02	4.70
	(163)	(102)	(102)	(2.14)
1 1/2	6.98	4.00	4.58	7.10
	(177)	(102)	(116)	(3.23)
2	7.50	4.75	5.70	11.60
	(190)	(121)	(145)	(5.27)

Figure B-37

Class 200 • Union Bonnet • Bronze Disc • Regrinding Seat • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc Stem	(1/4" - 3/8") Bronze	B-371 C69400
4	Disc	(1/2" - 3/4") Bronze	B-371 C69400
		(1" - 2") Bronze	B-61 C92200
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	

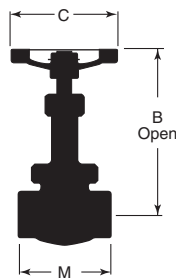
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



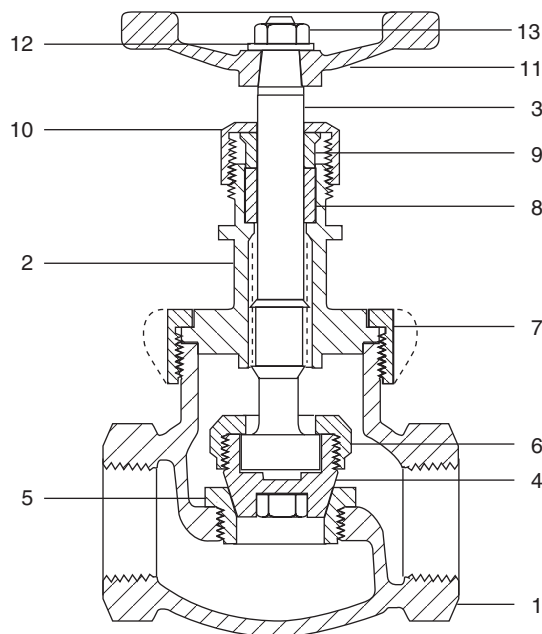
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.39	2.75	1.94	.8
	(112)	(70)	(49)	(0.4)
3/8	4.39	2.75	1.94	1.1
	(112)	(70)	(49)	(0.5)
1/2	4.09	2.75	2.56	1.8
	(104)	(70)	(65)	(0.8)
3/4	4.18	2.75	2.96	2.4
	(106)	(70)	(75)	(1.1)
1	5.45	3.25	3.50	3.8
	(138)	(83)	(89)	(1.7)
1 1/4	6.36	4.00	4.02	6.0
	(162)	(102)	(102)	(2.7)
1 1/2	6.95	4.00	4.58	8.2
	(177)	(102)	(116)	(3.7)
2	7.55	4.75	5.70	13.2
	(192)	(121)	(145)	(6.0)

Bronze Globe Valves

Figure B-62



Class 200 • Union Bonnet* • Plug-Type Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 3") Bronze	B-61 C92200
3	Stem	Bronze	B371 C69400
4	Disc	Stainless Steel	Type 420F
5	Seat Ring	Stainless Steel	Type 420F
6	Disc Stem Ring	(1/4" - 3/4") Brass	B16 H02
		(1" - 3") Bronze	B61 C92200
7	Union Bonnet Ring (1/4" - 2")	Bronze	B61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B16 H02
10	Packing Nut	(1/4" - 1-1/2") Brass	B16 H02
		(2" - 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	
*14	Gasket	(2 1/2" - 3") Non-Asbestos	
*15	Driven-In Stud	(2 1/2" - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 1/2" - 3") Steel	A-563

*2 1/2" and 3" have Bolted Bonnet

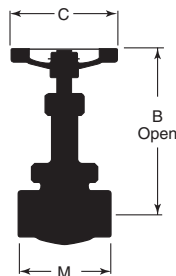
Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

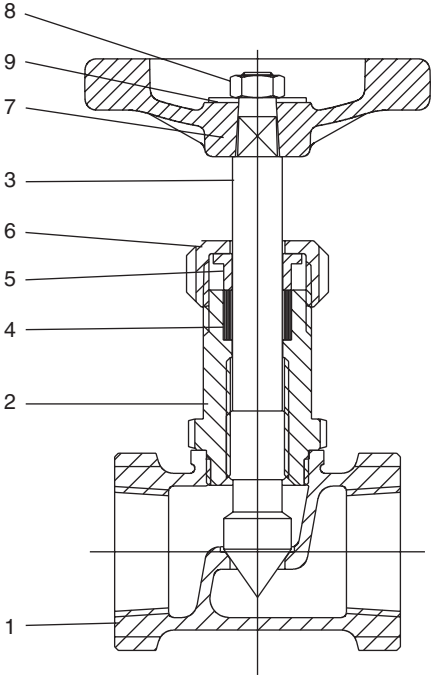
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.39	2.75	1.94	0.8
	(112)	(70)	(49)	(.36)
3/8	4.39	2.75	1.94	1.1
	(112)	(70)	(49)	(.45)
1/2	4.09	2.75	2.56	1.8
	(104)	(70)	(65)	(.82)
3/4	4.18	2.75	2.96	2.4
	(106)	(70)	(75)	(1.09)
1	5.45	3.25	3.50	3.8
	(138)	(83)	(89)	(1.73)
1 1/4	6.36	4.00	4.02	6.0
	(162)	(102)	(102)	(2.73)
1 1/2	6.95	4.00	4.58	8.2
	(177)	(102)	(116)	(3.73)
2	7.55	4.75	5.70	13.2
	(192)	(121)	(145)	(6.00)
*2 1/2	8.92	7.00	7.25	24.5
	(227)	(178)	(184)	(11.11)
*3	10.16	7.00	8.50	48.1
	(258)	(178)	(216)	(21.86)

Figure B-64

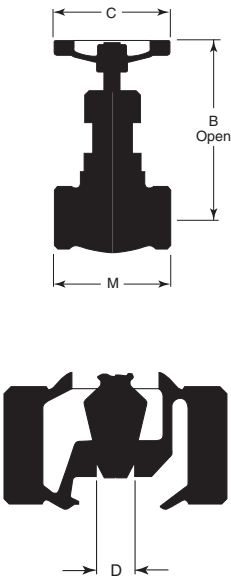
Class 200 • Threaded Bonnet • Needle Type Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Brass	B-124 C37700
3	Stem	Sil. Al. Bronze	B-150 C64200
4	Packing	Asbestos Free	
5	Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000
8	Handwheel	Malleable Iron	A-197 F22000
9	Handwheel Nut	Brass	B-16 C36000
10	ID Plate	Aluminum	

See page 7 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

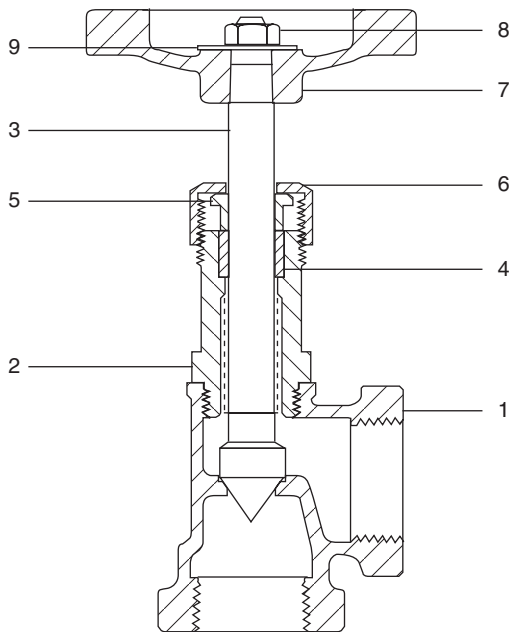
Valve Size	Dimensions				Wt.
	B	C	M	D	
1/8	2.91	2.25	1.14	.125	0.29
	(74)	(57)	(29)	(3.2)	(.13)
1/4	2.87	2.25	1.53	.189	.33
	(73)	(57)	(39)	(4.8)	(.15)
3/8	3.03	2.25	1.77	.256	.46
	(77)	(57)	(45)	(6.5)	(.21)
1/2	3.58	2.25	2.00	.311	.64
	(91)	(57)	(51)	(7.9)	(.29)
3/4	4.09	2.75	2.28	.437	1.01
	(104)	(70)	(58)	(11.1)	(.46)

Bronze Angle Valves

Figure B-264



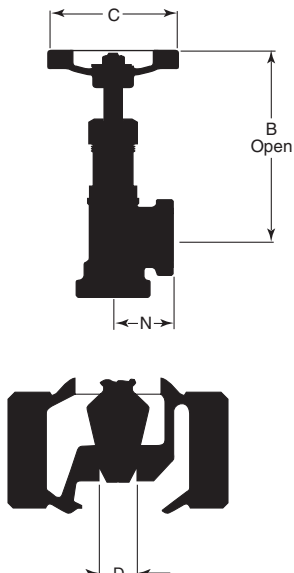
Class 200 • Threaded Bonnet • Needle Type Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Brass	B-124 C37700
3	Stem	Sil. Al. Bronze	B-150 C64200
4	Packing	Asbestos Free	
5	Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000
8	Handwheel	Malleable Iron	A-197 F22000
9	Handwheel Nut	Brass	B-16 C36000
10	ID Plate	Aluminum	

See page 7 for Pressure Temperature Ratings



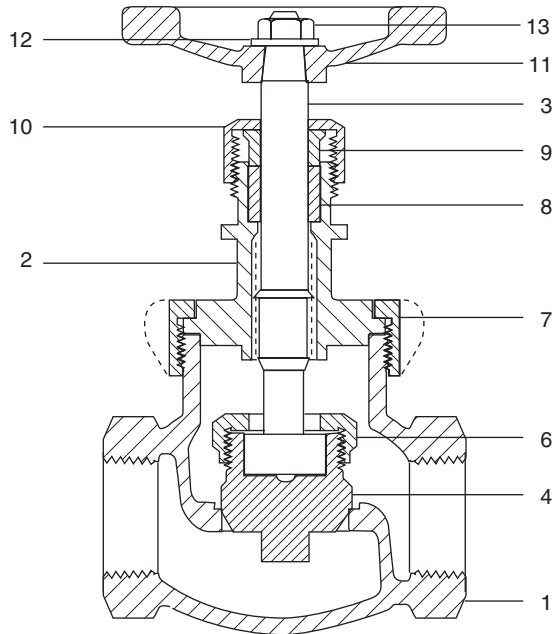
Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

Valve Size	Dimensions				Wt.
	B	C	N	D	
1/8	2.91 (74)	2.25 (57)	0.59 (15)	.125 (3.2)	0.29 (.13)
1/4	2.87 (73)	2.25 (57)	0.79 (20)	.189 (4.8)	.33 (.15)
3/8	3.03 (77)	2.25 (57)	0.91 (23)	.256 (6.5)	.46 (.21)
1/2	3.58 (91)	2.25 (57)	1.06 (27)	.311 (7.9)	.64 (.29)
3/4	4.09 (104)	2.75 (70)	1.26 (32)	.437 (11.1)	1.01 (.46)

Figure B-66

Class 300 • Union Bonnet* • Bronze Disc • Regrinding Seat • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 3") Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc	(1/4" - 3/8") Bronze (Integral)	B-371 C69400
		(1/2" - 3/4") Bronze	B-371 C69400
		(1" - 3") Bronze	B-61 C92200
6	Disc Stem Ring	(1/2" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-61 C92200
7	Union Bonnet Ring	(1/4" - 2") Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2" - 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	
*14	Gasket	(2 1/2" - 3") Non-Asbestos	
*15	Driven-In Stud	(2 1/2" - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 1/2" - 3") Steel	A-563

* 2 1/2" and 3" have Bolted Bonnet

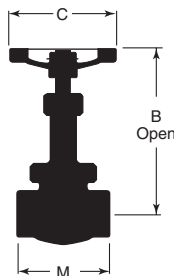
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



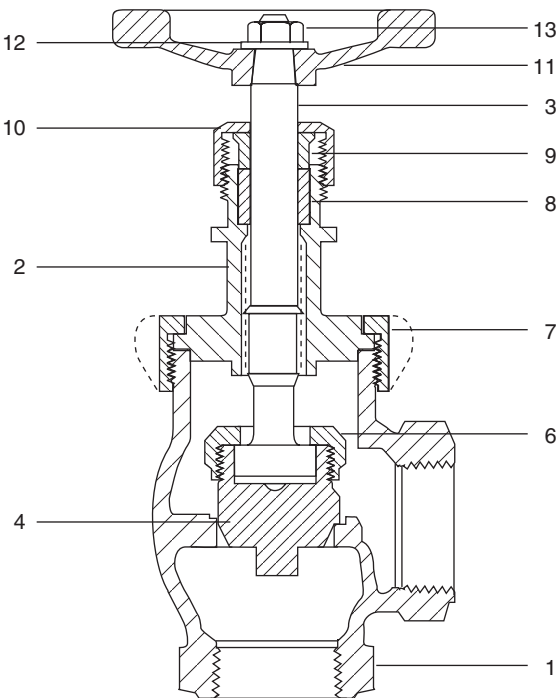
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.39	2.75	1.94	1.4
	(112)	(70)	(49)	(.64)
3/8	4.39	2.75	1.94	1.5
	(112)	(70)	(49)	(.68)
1/2	4.09	2.75	2.56	2.3
	(104)	(70)	(65)	(1.05)
3/4	4.18	2.75	2.96	2.8
	(106)	(70)	(75)	(1.27)
1	5.45	3.03	3.50	4.3
	(138)	(77)	(89)	(1.95)
1 1/4	6.36	4.00	4.02	8.1
	(162)	(102)	(102)	(3.68)
1 1/2	6.95	4.00	4.58	10.9
	(177)	(102)	(116)	(4.95)
2	7.55	4.75	5.70	19.2
	(192)	(121)	(145)	(8.73)
*2 1/2	8.92	7.00	7.25	24.5
	(227)	(178)	(184)	(11.11)
*3	10.16	7.00	8.50	48.1
	(258)	(178)	(216)	(21.86)

Bronze Angle Valves

Figure B-266



Class 300 • Union Bonnet • Bronze Disc • Regrinding Seat • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-61 C92200
3	Stem	(1/2" - 2") Bronze	B-371 C69400
4	Disc	(1/4" - 3/8") Bronze (Integral)	B-371 C69400
		(1/2" - 3/4") Bronze	B-371 C69400
		(1" - 2") Bronze	B-61 C92200
6	Disc Stem Ring	(1/2" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

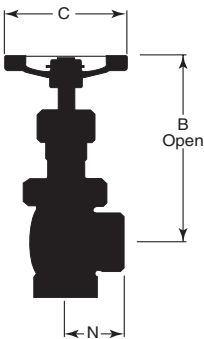
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

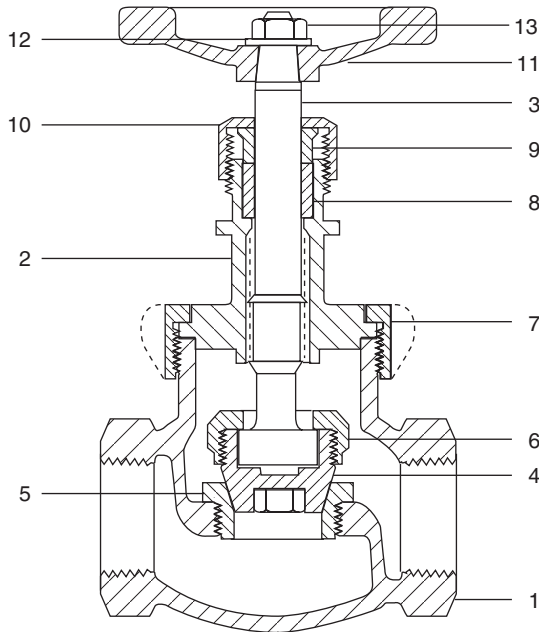
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	N	
1/4	4.27	2.75	1.13	.70
	(108)	(70)	(29)	(.32)
3/8	4.27	2.75	1.13	.80
	(108)	(70)	(29)	(.36)
1/2	3.97	2.75	1.15	1.60
	(101)	(70)	(29)	(.73)
3/4	4.03	2.75	1.39	2.30
	(103)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 1/4	6.11	4.00	2.00	5.00
	(155)	(102)	(50)	(2.25)
1 1/2	6.82	4.00	2.18	7.10
	(173)	(102)	(55)	(3.20)
2	7.30	4.75	2.69	11.40
	(185)	(121)	(68)	(5.14)

Figure B-74

Class 300 • Union Bonnet* • Plug-Type Disc • Renewable SS Seats • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass (1/2" - 3") Bronze	B-16 H02 B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc	Stainless Steel	Type 420F
5	Seat Ring	Stainless Steel	Type 420F
6	Disc Stem Ring	(1/4" - 3/4") Brass (1" - 3") Bronze	B-16 H02 B-61 C92200
7	Union Bonnet Ring	(1/4" - 2") Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass (2" - 3") Bronze	B-16 H02 B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	
*14	Gasket	(2 1/2" - 3") Non-Asbestos	
*15	Driven-In Stud	(2 1/2" - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 1/2" - 3") Steel	A-563

* 2 1/2" and 3" have Bolted Bonnet

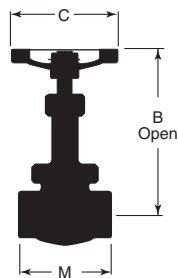
Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



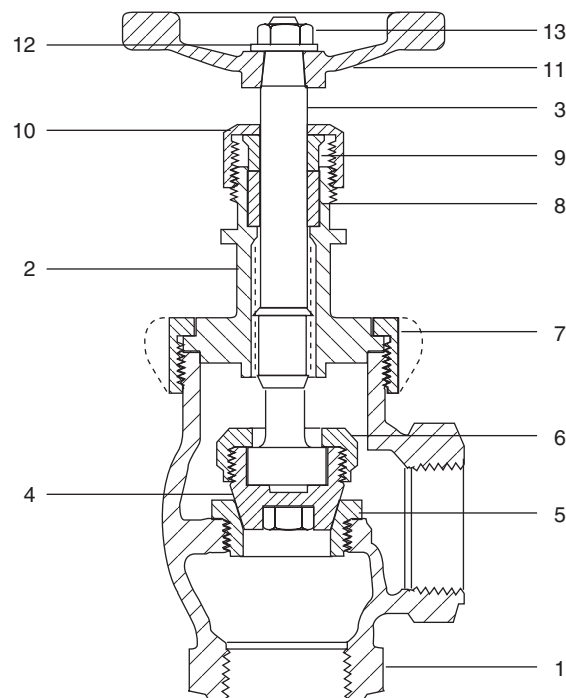
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.39 (112)	2.75 (70)	1.94 (49)	.80 (.36)
3/8	4.39 (112)	2.75 (70)	1.94 (49)	1.1 (.45)
1/2	4.09 (104)	2.75 (70)	2.56 (65)	1.8 (.82)
3/4	4.18 (106)	2.75 (70)	2.96 (75)	2.4 (1.09)
1	5.45 (138)	3.03 (77)	3.50 (89)	3.8 (1.73)
1 1/4	6.36 (162)	4.00 (102)	4.02 (102)	6.0 (2.73)
1 1/2	6.95 (177)	4.00 (102)	4.58 (116)	8.2 (3.73)
2	7.55 (192)	4.75 (121)	5.70 (145)	13.2 (6.00)
*2 1/2	8.92 (227)	7.00 (178)	7.25 (184)	24.5 (11.11)
*3	10.16 (258)	7.00 (178)	8.50 (216)	48.1 (21.86)

Bronze Angle Valves

Figure B-274



Class 300 • Union Bonnet • Plug-Type Disc • Renewable SS Seats • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc	Stainless Steel	Type 420F
5	Seat Ring	Stainless Steel	Type 420F
6	Disc Stem Ring	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-61 C92200
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	(1/4" - 1 1/2") Brass	B-16 H02
		(2") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

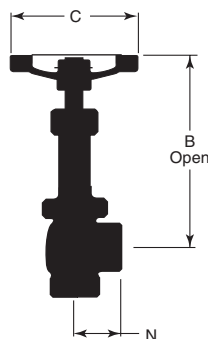
Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

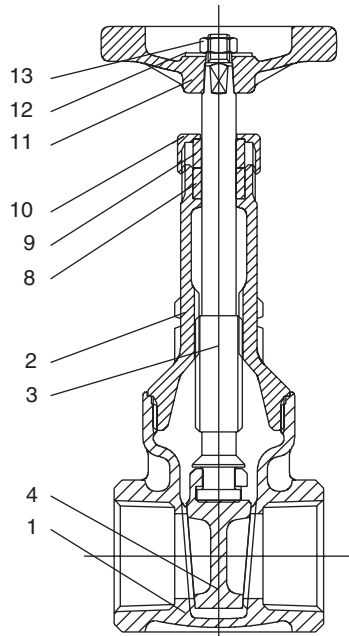
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	N	
1/4	4.27	2.75	1.13	.70
	(108)	(70)	(29)	(.32)
3/8	4.27	2.75	1.13	.80
	(108)	(70)	(29)	(.36)
1/2	3.97	2.75	1.15	1.60
	(101)	(70)	(29)	(.73)
3/4	4.03	2.75	1.39	2.30
	(103)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 1/4	6.11	4.00	2.00	5.00
	(155)	(102)	(50)	(2.25)
1 1/2	6.82	4.00	2.18	7.10
	(173)	(102)	(55)	(3.20)
2	7.30	4.75	2.69	11.40
	(185)	(121)	(68)	(5.14)

Figure B-100

Class 125 • Threaded Bonnet • Rising Stem • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

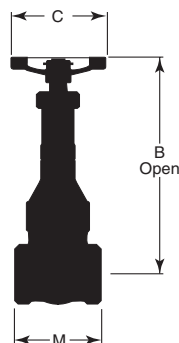
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



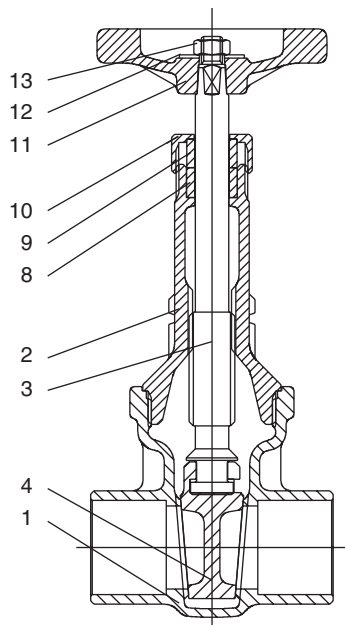
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.92	2.13	1.65	.5
	(125)	(54)	(42)	(.22)
3/8	4.92	2.13	1.65	.5
	(125)	(54)	(42)	(.22)
1/2	5.07	2.75	1.98	1.0
	(129)	(70)	(51)	(.48)
3/4	6.25	2.75	2.14	1.6
	(159)	(70)	(55)	(.72)
1	7.44	2.75	2.46	2.4
	(189)	(70)	(63)	(1.10)
1 1/4	8.62	3.25	2.77	3.3
	(219)	(83)	(71)	(1.50)
1 1/2	9.68	4.00	2.85	4.9
	(246)	(102)	(73)	(2.25)
2	11.85	4.00	3.25	7.0
	(301)	(102)	(83)	(3.20)
2 1/2	14.53	4.75	4.25	12.8
	(369)	(121)	(108)	(5.80)
3	16.39	5.50	4.59	18.8
	(416)	(140)	(117)	(8.52)

Bronze Gate Valves



Figure B-108

200 CWP • Threaded Bonnet • Rising Stem • Solder Ends



Materials of Construction

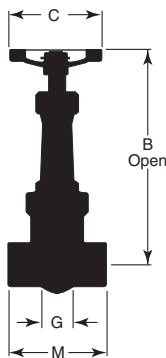
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/2" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/2" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

Complies with MSS SP-80 Type 2
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

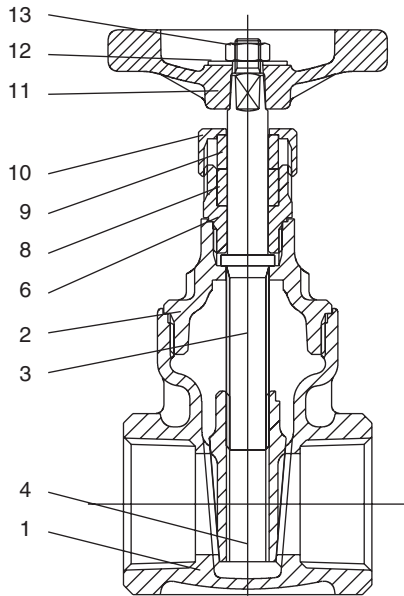


Valve Size	Dimensions				Wt.
	B	C	G*	M	
1/2	5.07	2.75	.92	1.90	.90
	(129)	(70)	(24)	(49)	(.41)
3/4	6.25	2.75	.95	2.44	1.4
	(159)	(70)	(24)	(62)	(.63)
1	7.44	2.75	1.11	2.91	2.2
	(189)	(70)	(28)	(74)	(1.00)
1 1/4	8.62	3.25	1.18	3.15	3.0
	(219)	(83)	(30)	(80)	(1.36)
1 1/2	9.68	4.00	1.30	3.51	4.6
	(246)	(102)	(33)	(89)	(2.08)
2	11.85	4.00	1.49	4.17	6.7
	(301)	(102)	(38)	(106)	(3.03)
2 1/2	14.53	4.75	1.96	4.91	11.5
	(369)	(121)	(50)	(125)	(5.22)
3	16.39	5.50	2.65	5.50	16.3
	(416)	(140)	(67)	(140)	(7.39)

*Piping Make-Up Dimensions

Figure B-103

Class 125 • Threaded Bonnet • Non-Rising Stem • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Brass	B-124 C37700
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
6	Stuffing Box	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

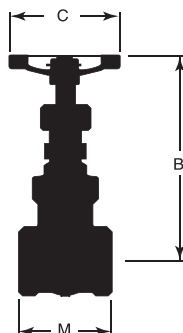
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



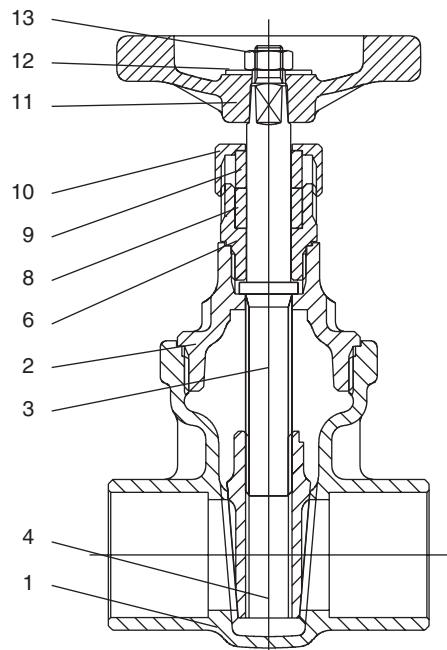
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	2.95	2.56	1.65	.5
	(75)	(65)	(42)	(.22)
3/8	2.95	2.56	1.65	.5
	(75)	(65)	(42)	(.22)
1/2	3.23	2.06	1.98	.8
	(82)	(52)	(51)	(.35)
3/4	3.74	2.56	2.14	1.2
	(95)	(65)	(55)	(.55)
1	4.64	2.75	2.46	1.8
	(118)	(70)	(63)	(.84)
1 1/4	5.67	3.06	2.77	2.6
	(144)	(79)	(71)	(1.18)
1 1/2	6.53	3.62	2.85	3.6
	(166)	(92)	(73)	(1.66)
2	7.48	4.06	3.25	5.6
	(190)	(103)	(83)	(2.55)
2 1/2	9.26	5.28	4.25	12.4
	(235)	(134)	(108)	(5.62)
3	9.89	5.28	4.59	17.4
	(251)	(134)	(117)	(7.89)

Bronze Gate Valves



Figure B-104

200 CWP • Threaded Bonnet • Non-Rising Stem • Solder Ends



Materials of Construction

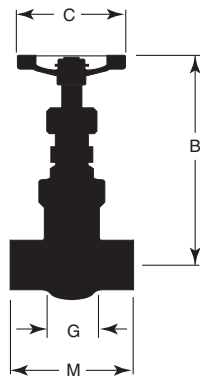
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/2" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
6	Stuffing Box	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/2" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

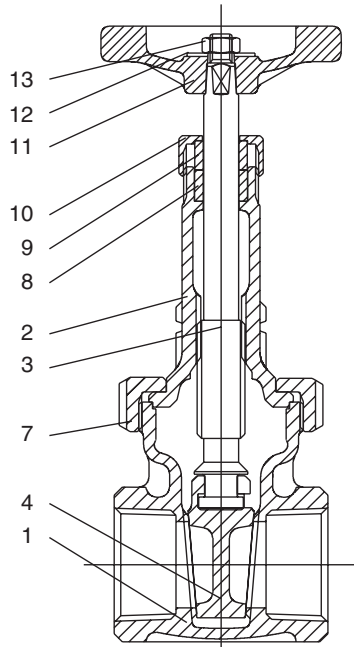


Valve Size	Dimensions				Wt.
	B	C	G*	M	
1/2	3.23 (82)	2.75 (70)	.92 (24)	1.90 (49)	.9 (.31)
	3.74 (95)	2.75 (70)	.95 (24)	2.44 (62)	1.4 (.49)
1	4.64 (118)	2.75 (70)	1.11 (28)	2.91 (74)	2.1 (.77)
	5.67 (144)	3.25 (83)	1.18 (30)	3.15 (80)	2.8 (1.08)
1 1/4	6.53 (166)	4.00 (102)	1.30 (33)	3.51 (89)	4.4 (1.54)
	7.36 (187)	4.00 (102)	1.49 (38)	4.17 (106)	6.5 (2.45)
2	9.26 (235)	4.75 (121)	1.96 (50)	4.91 (125)	12.3 (5.22)
	9.89 (251)	5.50 (140)	2.19 (56)	5.50 (140)	18.3 (7.39)

*Piping Make-Up Dimensions

Figure B-105

Class 125 • Union Bonnet • Rising Stem • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
7	Union Bonnet Ring	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

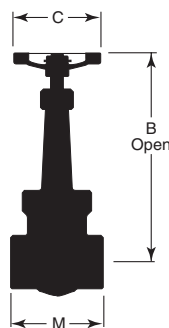
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



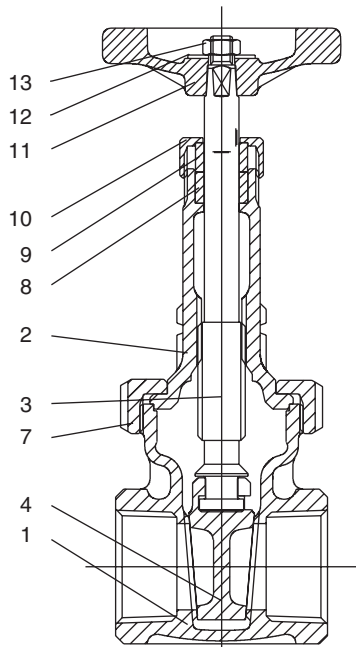
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(70)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(2.31)
1 1/2	9.68	4.00	2.85	7.2
	(246)	(102)	(73)	(3.28)
2	11.85	4.00	3.25	11.9
	(301)	(102)	(83)	(5.40)
2 1/2	14.53	4.75	4.25	13.1
	(369)	(121)	(108)	(5.94)
3	16.39	5.50	4.59	20.1
	(416)	(140)	(117)	(9.12)

Bronze Gate Valves



Figure B-120

Class 150 • Union Bonnet • Rising Stem • Threaded Ends



Materials of Construction

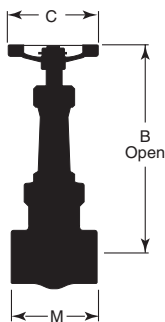
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
7	Union Bonnet Ring	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

Complies with MSS SP-80 Type 2
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

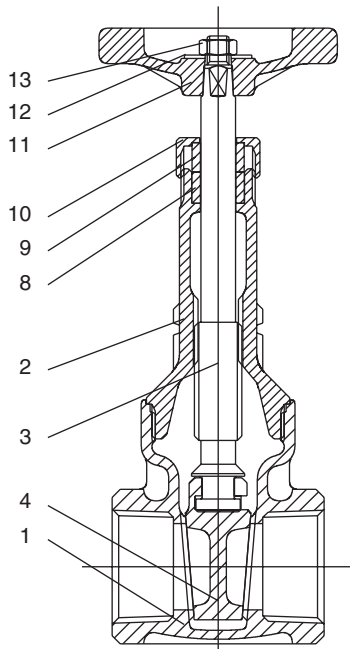
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(70)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(2.31)
1 1/2	9.68	4.00	2.85	7.2
	(246)	(102)	(73)	(3.28)
2	11.85	4.00	3.25	11.9
	(301)	(102)	(83)	(5.40)
2 1/2	14.53	4.75	4.25	13.1
	(369)	(121)	(108)	(5.94)
3	16.39	5.50	4.59	20.1
	(416)	(140)	(117)	(9.12)

Figure B-122

Class 150 • Threaded Bonnet • Rising Stem • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

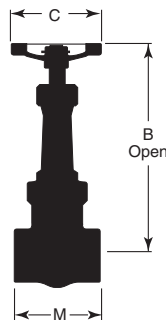
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



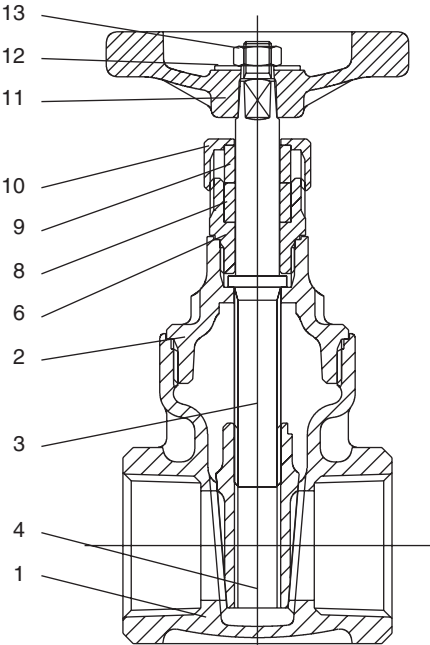
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.96 (126)	2.25 (57)	1.81 (46)	.7 (.32)
3/8	4.96 (126)	2.25 (57)	1.81 (46)	.7 (.32)
1/2	5.07 (129)	2.75 (70)	1.98 (51)	1.0 (.48)
3/4	6.25 (159)	2.75 (70)	2.14 (55)	1.6 (.72)
1	7.44 (189)	2.75 (70)	2.46 (63)	2.4 (1.10)
1 1/4	8.62 (219)	3.25 (83)	2.77 (71)	3.3 (1.50)
1 1/2	9.68 (246)	4.00 (102)	2.85 (73)	4.9 (2.25)
2	11.85 (301)	4.00 (102)	3.25 (83)	7.0 (3.20)
2 1/2	14.53 (369)	4.75 (121)	4.25 (108)	12.8 (5.80)
3	16.39 (416)	5.50 (140)	4.59 (117)	18.8 (8.52)

Bronze Gate Valves

Figure B-128



Class 150 • Threaded Bonnet • Non Rising-Stem • Threaded Ends



Materials of Construction

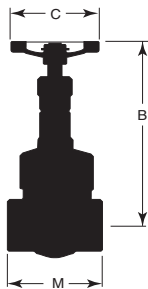
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Brass	B-124 C37700
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
6	Stuffing Box	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

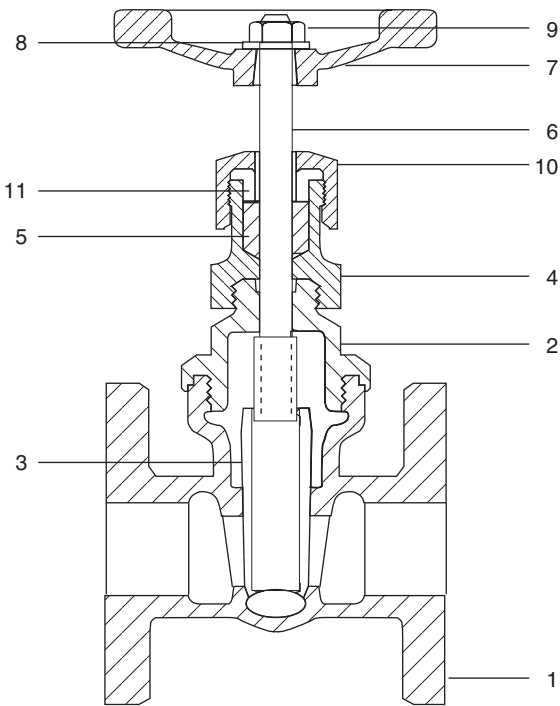
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	2.95 (75)	1.75 (45)	1.81 (46)	.6 (.27)
	2.95 (75)	1.75 (45)	1.81 (46)	.6 (.26)
1/2	3.23 (82)	2.06 (52)	1.98 (51)	.8 (.35)
	3.74 (95)	2.56 (65)	2.14 (55)	1.2 (.55)
1	4.64 (118)	2.75 (70)	2.46 (63)	1.8 (.84)
	5.67 (144)	3.06 (79)	2.77 (71)	2.6 (1.18)
1 1/2	6.53 (166)	3.62 (92)	2.85 (73)	3.6 (1.66)
	7.48 (190)	4.06 (103)	3.25 (83)	5.6 (2.55)
2 1/2	9.26 (235)	5.28 (134)	4.25 (108)	12.4 (5.62)
	9.89 (251)	5.28 (134)	4.59 (117)	17.4 (7.89)

Figure B-131

Class 150 • Threaded Bonnet • Non-Rising Stem • Flanged Ends



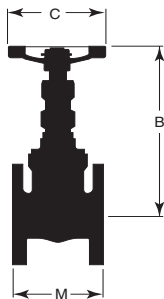
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Wedge	Bronze	B-62 C83600
4	Stuffing Box	Brass	
5	Packing	Non-Asbestos	
6	Stem	Bronze	B-62 C83600
7	Handwheel	Malleable Iron	A-197
8	ID Plate	Aluminum	
9	Handwheel Nut	Brass	
10	Packing Nut	Brass	
11	Packing Gland		

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights
Inches (millimeters) - Pounds (kilograms)



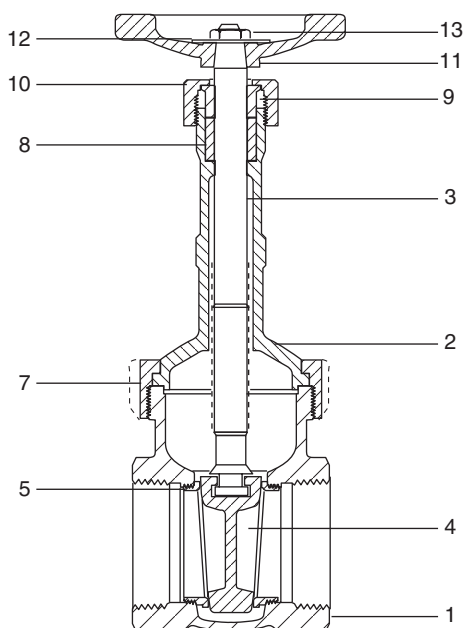
Valve Size	Dimensions			Wt.
	B	C	M	
1	4.88	2.56	3.94	5.70
	(116)	(65)	(100)	(2.6)
1¼	5.16	2.75	4.33	6.30
	(145)	(70)	(110)	(2.85)
1½	6.50	3.06	4.72	9.00
	(165)	(78)	(120)	(4.06)
2	7.44	3.63	5.32	12.20
	(189)	(92)	(135)	(5.51)
2½	9.13	4.06	6.50	18.50
	(232)	(103)	(165)	(8.36)
3	10.38	4.75	7.28	25.50
	(264)	(121)	(185)	(11.52)

Bronze Gate Valves



Figure B-132

Class 200 • Union Bonnet* • Rising Stem • Stainless Steel Seats • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Wedge	Bronze	B-61 C92200
5	Body Seat Ring	Stainless Steel	A-276 Type 410
7	Union Bonnet Ring (1/4" - 2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut (1/4" - 2")	Brass	B-16 H02
	(2 1/2" - 3")	Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	
*14	Gasket (2 1/2" - 3")	Non-Asbestos Fibre	
*15	Driven-In Stud (2 1/2" - 3")	Steel Zinc Plated	
*16	Stud Nut (2 1/2" - 3")	Steel	A-563

* 2 1/2" and 3" have Bolted Bonnet

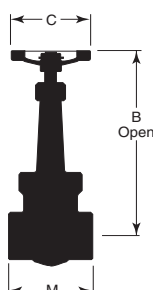
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

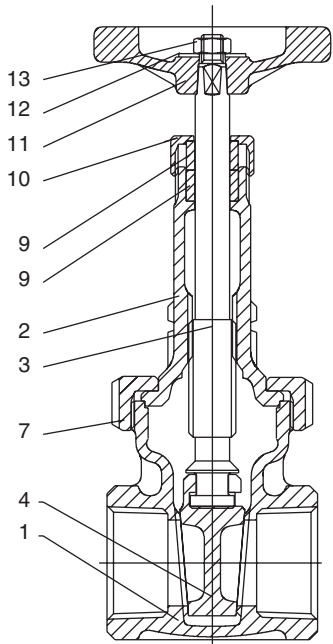
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.86 (123)	2.25 (57)	2.03 (52)	0.94 (.43)
3/8	4.86 (123)	2.25 (57)	2.13 (54)	0.88 (.40)
1/2	5.40 (137)	2.25 (57)	2.42 (61)	1.46 (.66)
3/4	6.60 (168)	2.75 (70)	2.61 (66)	2.06 (.94)
1	7.91 (201)	2.75 (70)	3.06 (78)	3.31 (1.50)
1 1/4	9.32 (237)	3.25 (83)	3.35 (85)	5.06 (2.30)
1 1/2	10.45 (265)	4.00 (102)	3.69 (94)	6.05 (2.75)
2	13.38 (340)	4.00 (102)	3.96 (101)	10.38 (4.72)
*2 1/2	14.12 (359)	4.75 (121)	4.60 (117)	23.50 (10.68)
*3	16.78 (426)	7.00 (128)	5.63 (143)	36.00 (16.36)

Figure B-135

Class 200 • Union Bonnet • Rising Stem • Threaded Ends



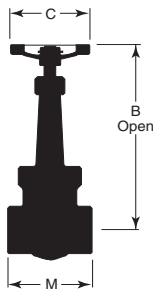
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Stem	(1/4" - 2") Bronze	B-62 C83600
		(2 1/2" & 3") Cu-Si Bronze	B-371 C69400
4	Wedge	Bronze	B-62 C83600
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2") Brass	B-16 C36000
		(2 1/2" & 3") Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

Complies with MSS SP-80 Type 2
See page 7 for Pressure Temperature Ratings

Dimensions and Weights
Inches (millimeters) - Pounds (kilograms)



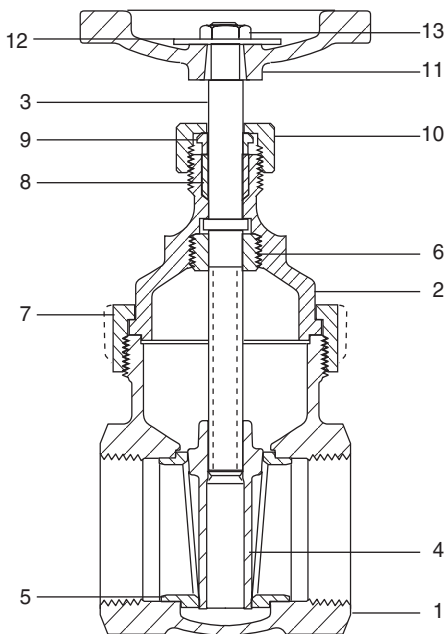
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(57)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(2.31)
1 1/2	9.68	4.00	2.85	7.2
	(246)	(102)	(73)	(3.28)
2	11.85	4.00	3.25	11.9
	(301)	(102)	(83)	(5.40)
2 1/2	14.53	4.75	4.25	13.1
	(369)	(121)	(108)	(5.94)
3	16.39	5.50	4.59	20.1
	(416)	(140)	(117)	(9.12)

Bronze Gate Valves



Figure B-140

Class 200 • Union Bonnet • Non-Rising Stem • Stainless Steel Seats • Threaded Ends



Materials of Construction

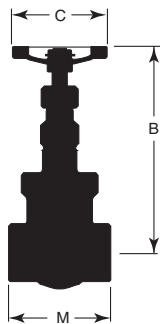
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Wedge	Bronze	B-61 C92200
5	Body Seat Rings	Stainless Steel	A-276 Type 410
6	Stem Retaining Nut	Brass	B-16 H02
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	Brass	B-16 H02
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

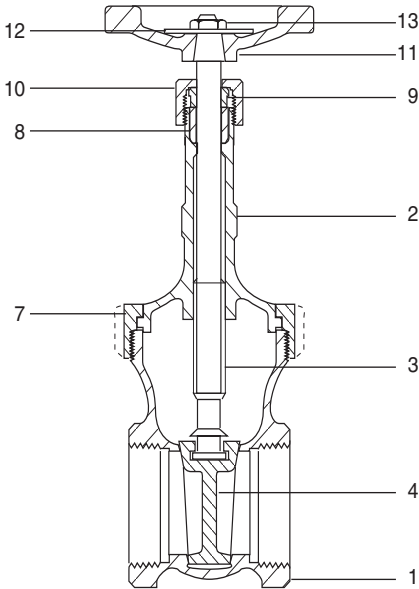
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	3.70	2.25	2.03	.83
	(94)	(57)	(52)	(.38)
3/8	3.70	2.25	2.13	.89
	(94)	(57)	(54)	(.40)
1/2	4.07	2.25	2.42	1.35
	(103)	(57)	(61)	(.61)
3/4	4.81	2.75	2.61	1.83
	(122)	(70)	(66)	(.83)
1	5.26	2.75	3.06	3.09
	(134)	(70)	(78)	(1.40)
1 1/4	6.18	3.25	3.35	4.91
	(157)	(83)	(85)	(2.23)
1 1/2	7.05	4.00	3.69	5.88
	(179)	(102)	(94)	(2.67)
2	7.93	4.00	3.96	10.13
	(201)	(102)	(101)	(4.60)

Figure B-144

Class 300 • Union Bonnet • Rising Stem • Threaded Ends



Materials of Construction

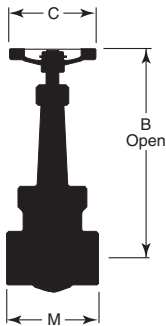
No.	Description		Material	ASTM Spec.
1	Body		Bronze	B-61 C92200
2	Bonnet		Bronze	B-61 C92200
3	Stem		Bronze	B-371 C69400
4	Wedge		Bronze	B-61 C92200
7	Union Bonnet Ring		Bronze	B-61 C92200
8	Packing		Anchor/Carboform Type II	
9	Gland		Brass	B-16 H02
10	Packing Nut	(1/4" - 2")	Brass	B-16 H02
		(2 1/2" - 3")	Bronze	B-584 C84400
11	Handwheel		Malleable Iron	A-197
12	ID Plate		Aluminum	
13	Handwheel Nut		Steel (Cad. Dicro Finish)	

Industry Standards

Complies with MSS SP-80 Type 2
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



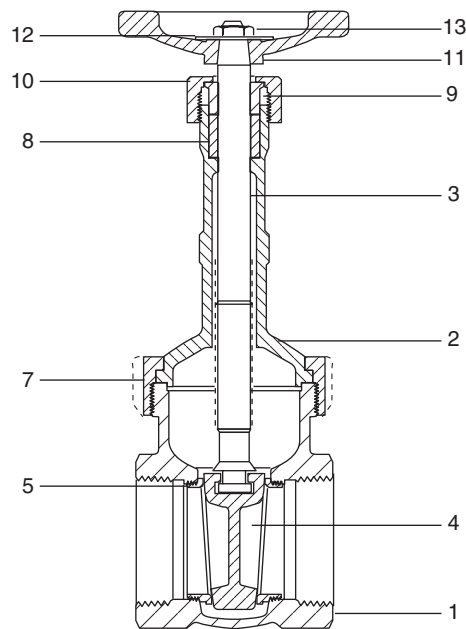
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.77	1.75	1.64	.7
	(121)	(44)	(42)	(.32)
3/8	4.77	1.75	1.64	.7
	(121)	(44)	(42)	(.32)
1/2	5.48	2.13	2.04	1.2
	(139)	(54)	(52)	(.50)
3/4	6.68	2.71	2.14	1.8
	(170)	(69)	(54)	(.80)
1	7.81	3.03	2.47	3.0
	(199)	(77)	(63)	(1.4)
1 1/4	9.26	3.03	3.08	4.0
	(235)	(77)	(78)	(1.8)
1 1/2	10.26	3.72	3.21	5.3
	(261)	(94)	(82)	(2.4)
2	12.36	4.72	3.39	8.7
	(313)	(120)	(86)	(3.9)
2 1/2	14.53	5.28	4.25	13.1
	(369)	(134)	(108)	(6.0)
3	16.39	5.28	4.59	20.1
	(416)	(134)	(117)	(9.2)

Bronze Gate Valves

Figure B-145



Class 300 • Union Bonnet* • Rising Stem • Stainless Steel Seats • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Wedge	Bronze	B-61 C92200
5	Body Seat Ring	Stainless Steel	A-276 Type 410
7	Union Bonnet Ring (1/4" - 2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut (1/4" - 2")	Brass	B-16 H02
		Bronze	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	
*14	Gasket (2 1/2" - 3")	Non-Asbestos Fibre	
*15	Driven-In Stud (2 1/2" - 3")	Steel Zinc Plated	
*16	Stud Nut (2 1/2" - 3")	Steel	A-563

* 2 1/2" and 3" have Bolted Bonnet

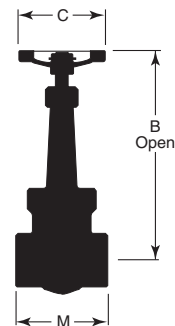
Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

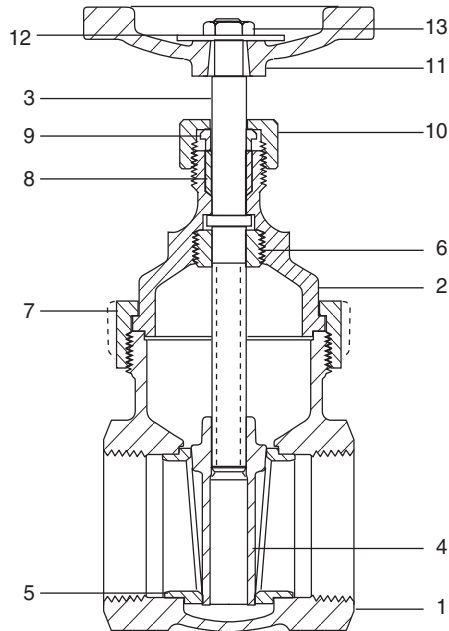
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions			Wt.
	B	C	M	
1/4	4.86	2.25	2.03	0.85
	(123)	(57)	(52)	(.39)
3/8	4.86	2.25	2.13	0.94
	(123)	(57)	(54)	(.43)
1/2	5.40	2.25	2.42	1.44
	(137)	(57)	(61)	(.65)
3/4	6.60	2.75	2.61	2.06
	(168)	(70)	(66)	(.94)
1	7.91	2.75	3.06	3.34
	(201)	(70)	(78)	(1.52)
1 1/4	9.32	3.25	3.35	4.81
	(237)	(83)	(85)	(2.18)
1 1/2	10.45	4.00	3.69	6.13
	(265)	(102)	(94)	(2.78)
2	13.38	4.00	3.96	10.44
	(340)	(102)	(101)	(4.74)
*2 1/2	14.12	4.75	4.60	20.50
	(359)	(121)	(117)	(9.31)
*3	16.78	7.00	5.63	44.00
	(426)	(178)	(143)	(19.98)

Figure B-147

Class 300 • Union Bonnet • Non-Rising Stem • Stainless Steel Seats • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Bonnet	Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Wedge	Bronze	B-61 C92200
5	Body Seat Rings	Stainless Steel	A-276 Type 410
6	Stem Retaining Nut	Brass	B-16 H02
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	Brass	B-16 H02
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad. Dicro Finish)	

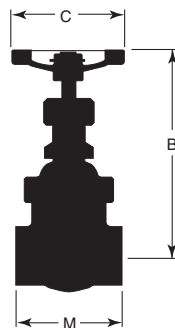
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



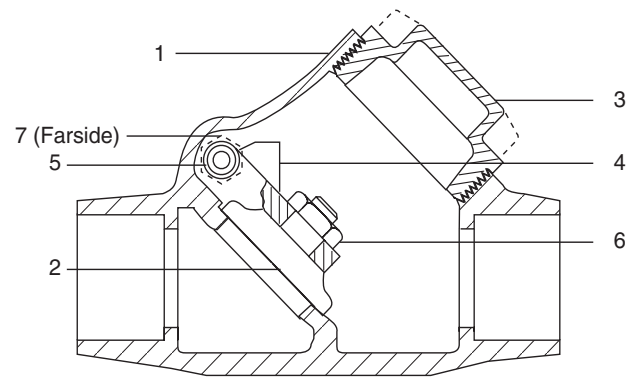
Valve Size	Dimensions			Wt.
	B	C	M	
1/4	3.70 (94)	2.25 (57)	2.03 (52)	0.79 (.36)
3/8	3.70 (94)	2.25 (57)	2.13 (54)	0.88 (0.40)
1/2	4.07 (103)	2.25 (57)	2.42 (61)	1.31 (0.60)
3/4	4.81 (122)	2.75 (70)	2.61 (66)	1.84 (0.84)
1	5.26 (134)	2.75 (70)	3.06 (78)	3.09 (1.40)
1 1/4	6.18 (157)	3.25 (83)	3.35 (85)	4.72 (2.14)
1 1/2	7.05 (179)	4.00 (102)	3.69 (94)	5.88 (2.67)
2	7.93 (201)	4.00 (102)	3.96 (101)	10.25 (4.65)

Bronze Swing Check Valves*



Figure B-310BY

200 CWP • Threaded Cap • Viton Disc • Solder Ends



Materials of Construction

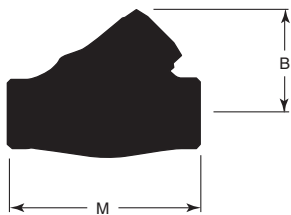
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	Viton	B-62 C83600
3	Cap	Bronze	B-61 C92200
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304
6	Hinge Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 4
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

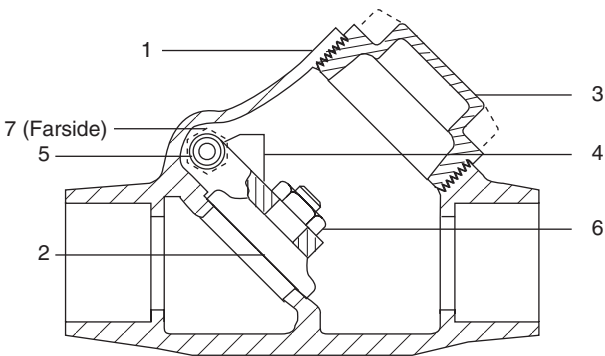


Valve Size	Dimensions		Wt.
	B	M	
1/2	1.63	2.69	0.60
	(41)	(68)	(0.27)
3/4	2.00	3.63	1.00
	(52)	(92)	(0.45)
1	2.50	4.25	1.50
	(62)	(108)	(0.68)
1 1/4	3.00	4.81	2.20
	(73)	(122)	(1.00)
1 1/2	3.50	5.56	3.30
	(86)	(141)	(1.50)
2	4.00	6.87	5.40
	(106)	(174)	(2.45)

* Not recommended for use in reciprocating air compressor service.

Figure B-310TY

200 CWP • Threaded Cap • PTFE Disc • Solder Ends



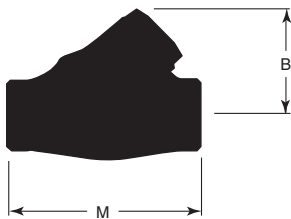
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	PTFE	B-62 C83600
3	Cap	Bronze	B-61 C92200
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304
6	Hinge Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 4
See page 7 for Pressure Temperature Ratings

Dimensions and Weights
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions		Wt.
	B	M	
1/2	1.63	2.69	0.60
	(41)	(68)	(0.27)
3/4	2.00	3.63	1.00
	(52)	(92)	(0.45)
1	2.50	4.25	1.50
	(62)	(108)	(0.68)
1 1/4	3.00	4.81	2.20
	(73)	(122)	(1.00)
1 1/2	3.50	5.56	3.30
	(86)	(141)	(1.50)
2	4.00	6.87	5.40
	(106)	(174)	(2.45)

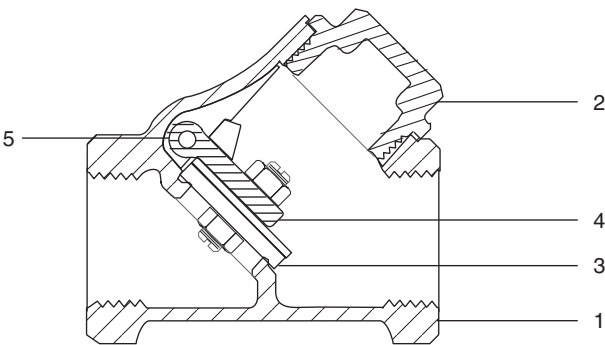
* Not recommended for use in reciprocating air compressor service.

Bronze Swing Check Valves*



Figure B-320BY

Class 125 • Threaded Cap • Viton Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
3	Disc	Viton	
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304

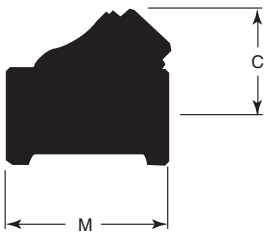
Industry Standards

Complies with MSS SP-80 Type 4

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

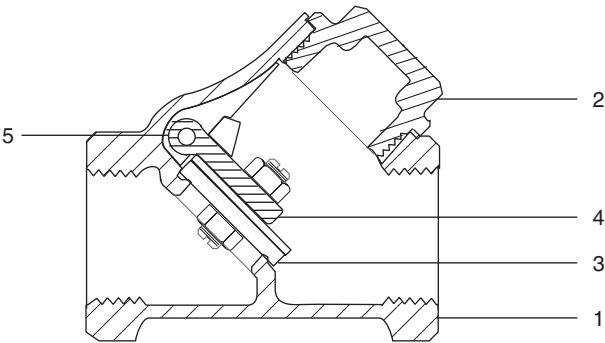


Valve Size	Dimensions		Wt.
	M	C	
1/2	2.15	1.59	0.60
	(55)	(40)	(0.27)
3/4	2.71	1.97	1.00
	(69)	(50)	(0.45)
1	3.18	2.43	1.60
	(81)	(62)	(0.72)
1 1/4	3.81	3.00	2.60
	(97)	(76)	(1.17)
1 1/2	4.34	3.50	3.50
	(195)	(89)	(1.58)
2	5.13	4.00	5.30
	(130)	(102)	(2.39)

* Not recommended for use in reciprocating air compressor service.

Figure B-320TY

Class 125 • Threaded Cap • PTFE Disc • Threaded Ends



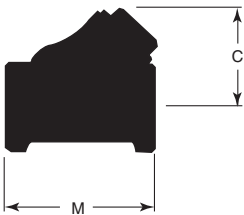
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-61 C92200
3	Disc	PTFE	
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304

Industry Standards

Complies with MSS SP-80 Type 4
See page 7 for Pressure Temperature Ratings

Dimensions and Weights
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions		Wt.
	M	C	
1/2	2.15	1.59	0.60
	(55)	(40)	(0.27)
3/4	2.71	1.97	1.00
	(69)	(50)	(0.45)
1	3.18	2.43	1.60
	(81)	(62)	(0.72)
1 1/4	3.81	3.00	2.60
	(97)	(76)	(1.17)
1 1/2	4.34	3.50	3.50
	(195)	(89)	(1.58)
2	5.13	4.00	5.30
	(130)	(102)	(2.39)

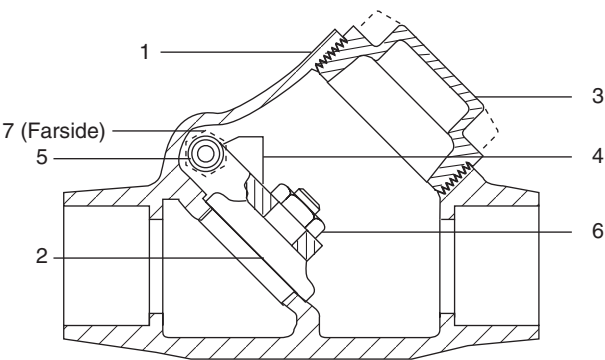
* Not recommended for use in reciprocating air compressor service.

Bronze Swing Check Valves*



Figure B-309Y

200 CWP • Threaded Cap • Brass/Bronze Disc • Solder Ends



Materials of Construction

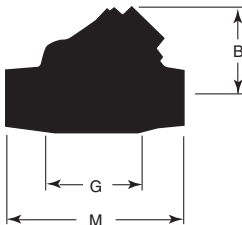
No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	(1/2" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-62 C83600
3	Cap	Bronze	B-61 C92200
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304
6	Hinge Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 3
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

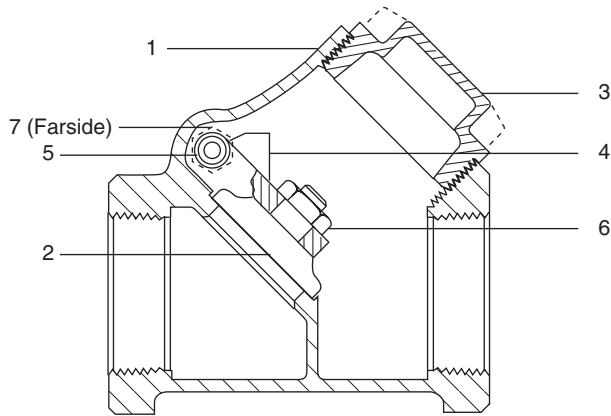


Valve Size	Dimensions			Wt.
	B	G	M	
1/2	1.63	1.63	2.69	0.60
	(41)	(41)	(68)	(.27)
3/4	2.00	2.06	3.63	1.00
	(51)	(52)	(92)	(.45)
1	2.50	2.44	4.25	1.50
	(62)	(62)	(108)	(.68)
1 1/4	3.00	2.88	4.81	2.20
	(76)	(73)	(122)	(1.0)
1 1/2	3.50	3.38	5.56	3.30
	(89)	(86)	(141)	(1.5)
2	4.00	4.19	6.87	5.40
	(102)	(106)	(174)	(2.45)
2 1/2	4.75	4.81	7.78	9.20
	(121)	(122)	(198)	(4.17)
3	5.63	5.88	9.19	14.30
	(143)	(149)	(233)	(6.49)

* Not recommended for use in reciprocating air compressor service.

Figure B-319Y

Class 125 • Threaded Cap • Brass/Bronze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-62 C83600
3	Cap	Bronze	B-62 C83600
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304
6	Disc Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50	1.94	.50
	(38)	(49)	(.23)
3/8	1.50	1.94	.50
	(38)	(49)	(.23)
1/2	1.59	2.15	.60
	(40)	(55)	(.27)
3/4	1.97	2.71	1.00
	(50)	(69)	(.45)
1	2.43	3.18	1.50
	(62)	(81)	(.68)
1 1/4	3.00	3.81	2.20
	(76)	(97)	(1.00)
1 1/2	3.50	4.34	3.40
	(89)	(110)	(1.55)
2	4.00	5.13	5.40
	(102)	(130)	(2.45)
2 1/2	4.76	6.12	9.00
	(121)	(155)	(4.09)
3	5.57	7.25	14.50
	(142)	(184)	(6.59)

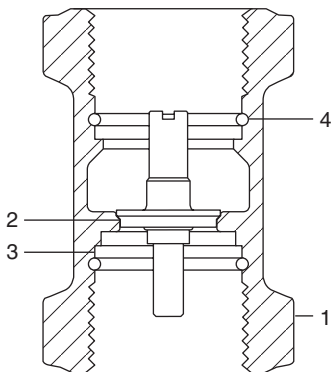
* Not recommended for use in reciprocating air compressor service.

Bronze Lift Check Valves



Figure B-314

Class 125 • Brass/Bronze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	(1/4" - 1/2") Brass	B-16 C36000 H02
		(3/4") Bronze	B-505 C83600
		(1" - 3") Bronze	B-62 C83600
3	Disc Guide	Brass	B-36 C26000 H04
4	Retaining Ring	Brass	B-134 C26000

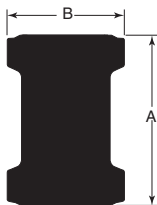
Industry Standards

Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

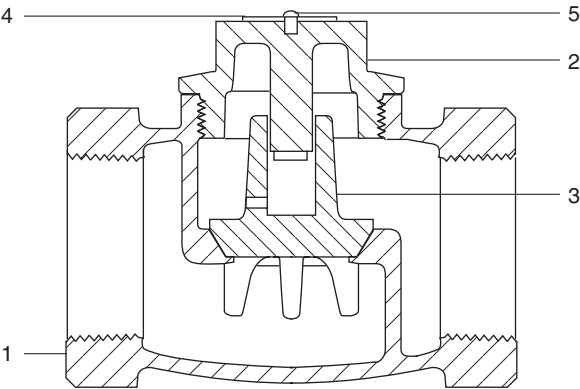
Inches (millimeters) - Pounds (kilograms)



Valve Size	Dimensions		Wt.
	A	B	
1/4	1.95	1.09	.30
	(50)	(28)	(.14)
3/8	1.95	1.09	.40
	(50)	(28)	(.18)
1/2	2.15	1.29	.60
	(55)	(33)	(.27)
3/4	2.32	1.57	.80
	(59)	(40)	(.36)
1	2.92	1.92	1.40
	(74)	(49)	(.64)
1 1/4	3.28	2.40	2.10
	(83)	(61)	(.95)
1 1/2	3.58	2.63	2.80
	(91)	(67)	(1.27)
2	4.00	3.30	4.80
	(102)	(84)	(2.18)
2 1/2	4.94	3.97	8.10
	(125)	(101)	(3.67)
3	5.42	4.78	12.00
	(138)	(121)	(5.44)

Figure B-316

Class 125 • Threaded Cap • Brass/Bronze Disc • Threaded Ends



Materials of Construction

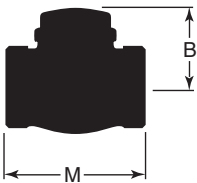
No.	Description	Material	Astm Spec.
1	Body	Bronze	B-62 C83600
2	Cap	(1/2") Brass	B-124 C67500
		(3/4"- 2") Bronze	B-62 C83600
3	Disc	(1/2") Brass	B-124 C67500
		(3/4"- 2") Bronze	B-62 C83600
4	ID Plate	Aluminum	
5	Drive Screw	Steel	

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



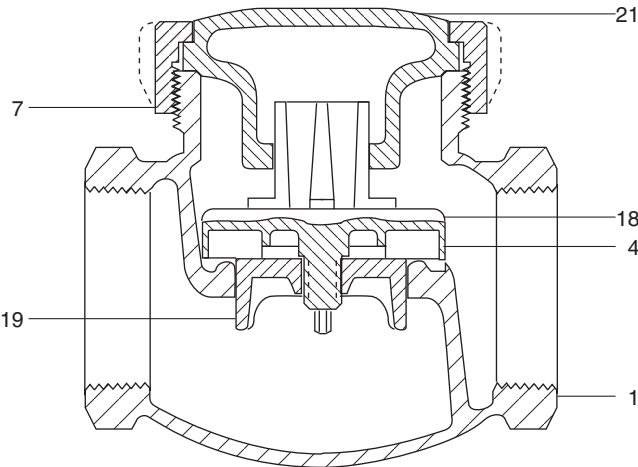
Valve Size	Dimensions		Wt.
	M	B	
1/2	2.16 (55)	1.29 (33)	.53 (.24)
	2.48 (63)	1.29 (33)	.77 (.35)
1	3.03 (77)	1.54 (39)	1.32 (.60)
	3.58 (91)	1.85 (47)	2.14 (.97)
1 1/4	3.86 (98)	2.13 (54)	2.78 (1.26)
	4.65 (118)	2.56 (65)	4.61 (2.09)

Bronze Lift Check Valves



Figure B-322B

Class 150 • Union Cap • Buna-N Disc • Threaded Ends

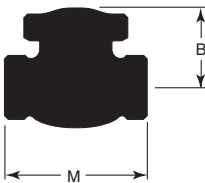
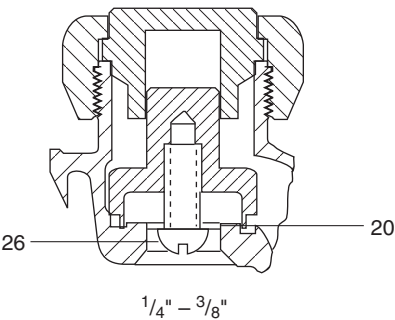


Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
4	Disc	Nitrile	
7	Union Bonnet Ring	Bronze	B-62 C83600
18	Disc Holder	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-62 C83600
19	Disc Retaining Nut	(1/2" - 2") Bronze	B-62 C83600
20	Disc Retaining Washer	(1/4" - 3/8") Brass	B-16 H02
21	Cap	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-62 C69400
26	Lockscrew	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 2
See page 7 for Pressure Temperature Ratings



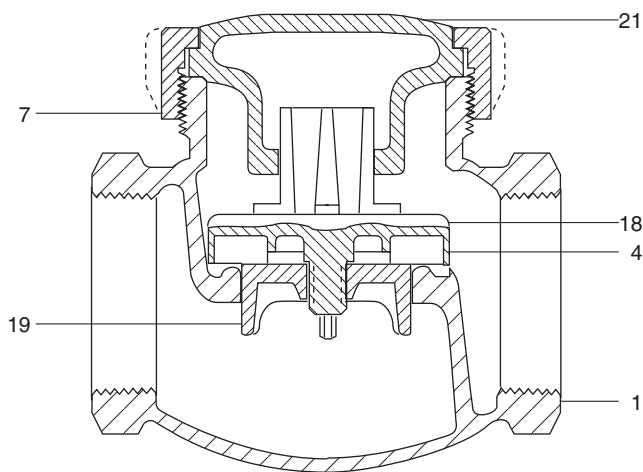
Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

Valve Size	Dimensions		Wt.
	B	M	
1/4	1.31	1.94	.52
	(33)	(49)	(.24)
3/8	1.31	1.94	.48
	(33)	(49)	(.22)
1/2	1.64	2.47	.89
	(42)	(63)	(.40)
3/4	1.90	2.86	1.38
	(48)	(73)	(.63)
1	2.24	3.40	2.29
	(57)	(86)	(1.04)
1 1/4	2.63	3.98	3.44
	(67)	(101)	(1.56)
1 1/2	2.89	4.54	5.00
	(73)	(115)	(2.27)
2	3.48	5.66	8.69
	(88)	(144)	(3.95)

Figure B-322T

Class 150 • Union Cap • PTFE Disc • Threaded Ends



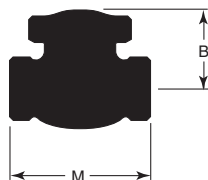
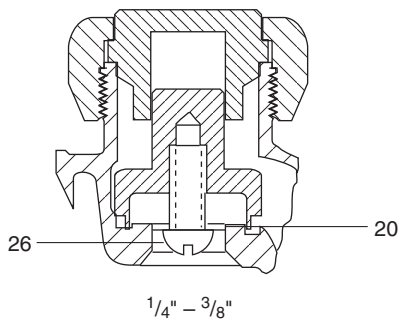
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
4	Disc	PTFE	
7	Union Bonnet Ring	Bronze	B-62 C83600
18	Disc Holder	(1/4" - 3/4") Brass	B-16 H02
		(1" - 2") Bronze	B-62 C83600
19	Disc Retaining Nut	(1/2" - 2") Bronze	B-62 C83600
20	Disc Retaining Washer	(1/4" - 3/8") Brass	B-16 H02
21	Cap	(1/4" - 3/8") Brass	B-16 H02
		(1/2" - 2") Bronze	B-62 C69400
26	Lockscrew	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 2

See page 7 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

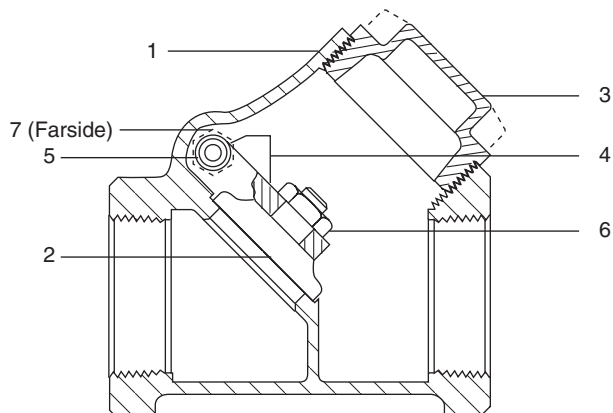
Valve Size	Dimensions		Wt.
	B	M	
1/4	1.31	1.94	.52
	(33)	(49)	(.24)
3/8	1.31	1.94	.48
	(33)	(49)	(.22)
1/2	1.39	2.56	.89
	(35)	(65)	(.40)
3/4	1.64	2.96	1.38
	(42)	(75)	(.63)
1	2.28	3.50	2.29
	(58)	(89)	(1.04)
1 1/4	2.65	4.02	3.44
	(67)	(102)	(1.56)
1 1/2	2.72	4.58	5.00
	(69)	(116)	(2.27)
2	3.48	5.70	8.69
	(89)	(145)	(3.95)

Bronze Swing Check Valves*



Figure B-321

Class 150 • Threaded Cap • Brass/Bronze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-62 C83600
3	Cap	Bronze	B-62 C83600
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 Type 304
6	Disc Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

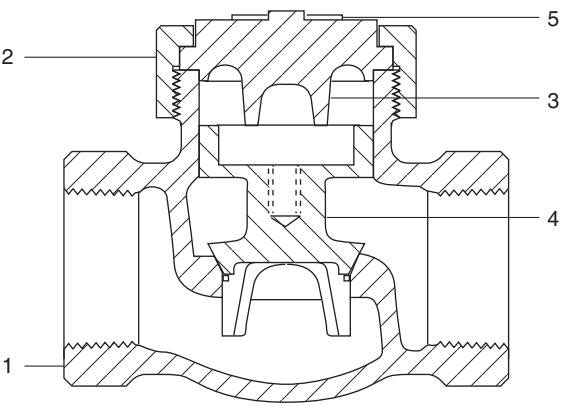


Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50	1.94	.50
	(38)	(49)	(.23)
3/8	1.50	1.94	.50
	(38)	(49)	(.23)
1/2	1.59	2.15	.60
	(40)	(55)	(.27)
3/4	1.97	2.71	1.00
	(50)	(69)	(.45)
1	2.43	3.18	1.50
	(62)	(81)	(.68)
1 1/4	3.00	3.81	2.20
	(76)	(97)	(1.00)
1 1/2	3.50	4.34	3.40
	(89)	(110)	(1.55)
2	4.00	5.13	5.40
	(102)	(130)	(2.45)
2 1/2	4.76	6.12	9.00
	(121)	(155)	(4.09)
3	5.57	7.25	14.50
	(142)	(184)	(6.59)

* Not recommended for use in reciprocating air compressor service.

Figure B-337

Class 200 • Union Cap • Bronze Disc • Threaded Ends



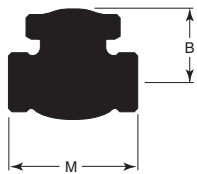
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Union Ring	Bronze	B-62 C83600
3	Cap	(1/2") Brass	B-124 C67500
		(3/4" - 2") Bronze	B-62 C83600
4	Disc	Bronze	B-62 C83600
5	ID Plate	Aluminum	

Industry Standards

Complies with MSS SP-80 Type 1
See page 7 for Pressure Temperature Ratings

Dimensions and Weights
Inches (millimeters) - Pounds (kilograms)



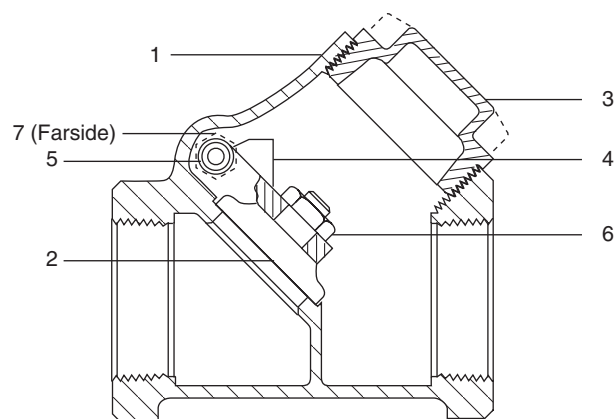
Valve Size	Dimensions		Wt.
	B	M	
1/2	1.46 (37)	2.56 (65)	1.0 (.47)
	1.85 (47)	2.95 (75)	1.7 (.77)
1	2.05 (52)	3.50 (89)	2.7 (1.21)
	2.36 (60)	4.06 (103)	4.1 (1.85)
1 1/2	2.64 (67)	4.61 (117)	5.9 (2.65)
	3.23 (82)	5.75 (146)	10.0 (4.56)

Bronze Swing Check Valves*



Figure B-345

Class 200 • Threaded Cap • Brass/Bronze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Disc	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-61 C92200
3	Cap	Bronze	B-61 C92200
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin (1/4" - 3")	Stainless Steel	A-276 C304
6	Disc Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 3

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

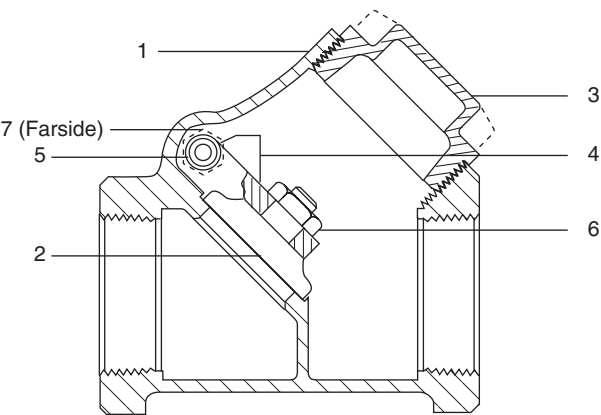


Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50	2.14	.54
	(38)	(54)	(.25)
3/8	1.50	2.14	.52
	(38)	(54)	(.24)
1/2	1.76	2.15	.75
	(45)	(55)	(.34)
3/4	2.00	2.71	1.40
	(51)	(69)	(.64)
1	2.50	3.18	2.10
	(63)	(81)	(.95)
1 1/4	3.00	3.81	3.90
	(76)	(97)	(1.77)
1 1/2	3.50	4.34	4.40
	(89)	(110)	(2.00)
2	4.00	5.11	7.00
	(102)	(130)	(3.18)
2 1/2	5.00	6.87	14.75
	(127)	(174)	(6.70)
3	6.00	8.19	21.25
	(152)	(208)	(9.65)

* Not recommended for use in reciprocating air compressor service.

Figure B-375

Class 300 • Threaded Cap • Brass/Bonze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-61 C92200
2	Disc	(1/4" - 3/4") Brass	B-16 H02
		(1" - 3") Bronze	B-61 C92200
3	Cap	Bronze	B-61 C92200
4	Hinge	Bronze	B-584 C87600
5	Hinge Pin	Stainless Steel	A-276 C304
6	Disc Nut	Brass	B-16 H02
7	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

Complies with MSS SP-80 Type 3
See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)



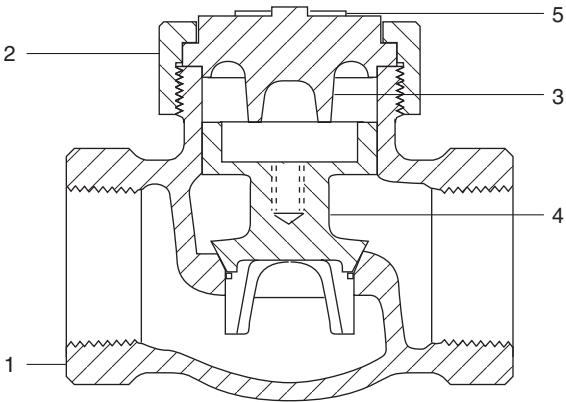
Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50	2.14	.63
	(38)	(54)	(.27)
3/8	1.50	2.14	.58
	(38)	(54)	(.26)
1/2	1.76	2.15	.96
	(45)	(55)	(.44)
3/4	2.00	2.71	1.53
	(51)	(69)	(.70)
1	2.50	3.44	2.56
	(63)	(87)	(1.16)
1 1/4	3.20	4.06	3.81
	(81)	(103)	(1.73)
1 1/2	3.73	4.59	6.06
	(95)	(117)	(2.75)
2	4.20	5.36	11.13
	(107)	(136)	(5.05)
2 1/2	5.00	7.11	16.63
	(127)	(181)	(7.55)
3	6.00	8.39	24.52
	(152)	(213)	(11.15)

* Not recommended for use in reciprocating air compressor service.

Bronze Lift Check Valves

Figure B-367

Class 300 • Union Cap • Bronze Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Union Ring	Bronze	B-62 C83600
3	Cap	(1/2") Brass	B-124 C67500
		(3/4" - 2") Bronze	B-62 C83600
4	Disc	Bronze	B-62 C83600
5	ID Plate	Aluminum	

Industry Standards

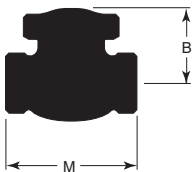
Complies with MSS SP-80 Type 1

See page 7 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

Valve Size	Dimensions		Wt.
	B	M	
1/2	1.46 (37)	2.56 (65)	1.0 (.47)
3/4	1.85 (47)	2.95 (75)	1.7 (.77)
1	2.05 (52)	3.50 (89)	2.7 (1.21)
1 1/4	2.36 (60)	4.06 (103)	4.1 (1.85)
1 1/2	2.64 (67)	4.61 (117)	5.9 (2.65)
2	3.23 (82)	5.75 (146)	10.0 (4.56)



Commercial Line

General Information59-60

Globe Valves

 Class 125 / 200 CWP61-64

Gate Valves

 Class 125 / 200 CWP65-68

Swing Check Valves

 Class 125 / 200 CWP69-72

Commercial Line

The Stockham Commercial line of Class 125 bronze valves, perfectly designed, perfectly priced to meet the needs of today's building service industry. The commercial line of gate, globe, and check valves conforms to the specifications set by the Manufacturers Standardization Society (MSS). And, in addition, you get Stockham quality at a price that every cost-conscious mechanical contractor can appreciate.

Stockham valves have long been recognized in commercial construction for their quality and dependability. From castings to components, these valves are manufactured to Stockham exacting designs and specifications. Rigid quality control during and after manufacture is your assurance that you'll get a perfect Stockham valve every time.

These valves are especially suited for air, commercial mechanical heating, ventilation and air conditioning installations.

Here's why Stockham Commercial line valves keep your costs down when your building goes up:

- Engineered to the design and quality standards of the Manufacturers Standardization Society (MSS)
- Economically priced
- Uncompromising quality
- Distributor stocking to reduce your costs
- Application assistance from trained representatives
- Backed by Stockham product performance warranty

PRESSURE-TEMPERATURE RATINGS, NONSHOCK

The pressure classes available have these rated working pressures:

	PRESSURE-PSI					
Press. Class	125	150		200	300	
End Conn.	THD	THD	FLG	THD	THD	FLG
Temp.	MATERIAL					
(Deg. F)	ASTM B-62			ASTM B-61		
-20 to						
150	200	300	225	400	1000	500
200	185	270	210	375	920	475
250	170	240	195	350	830	450
300	155	210	180	325	740	425
350	155	210	165	300	650	400
400	-	-	-	275	560	375
406	125	150	150	-	-	-
450	120	145	-	250	480	350
500	-	-	-	225	390	325
550	-	-	-	200	300	300

NOTES:

- Buna-N Disc Valves limited to 150°F Temperatures.
- PTFE and Viton Disc valves limited to 450°F Temperatures.
- For lower temperatures, Pressures for Temperatures -20 to 150 shall apply - Uses for low temperature shall conform to the rules of Applicable Codes under which they are to be used.
- P-T Ratings-ASME B16.24-1971.
- Some codes (i.e.-ASME BPVC, Section 1) limit the rating temperatures of B-62 material to 406°F.
- Solder End Valves are limited by temperatures which affect the strength of the solder joint. These ratings must be adjusted as shown on page 7.
- Internal pressures great enough to burst castings can be developed during the formation of ice. Valves should be protected so that contained media does not freeze.

Class 125 Gate, Globe and Swing Check Valves

Body—Threaded pipe ends conform to ASME B1.20.1. Solder ends comply with the ASME Standard for Solder Joint Fittings B16.18 and are suitable for use with Types K, L, and M copper tubing handling nonflammable materials.

Marking—For identification, each globe and gate valve has a metal identification plate under the handwheel nut showing the Stockham figure number.

Testing—Before shipment, each and every valve is individually tested under pressure for soundness of body castings and tight closure.

Packaging—All valves are shipped in sturdy cardboard containers. This packaging protects the valves during shipment and facilitates storage.

Weights and Dimensions—Complete information on weights and dimensions is incorporated on the same pages with the valve listings. Weights and dimensions are furnished for estimating purposes only and are subject to change without notice except for basic dimensions established by accepted standards.

C_v COEFFICIENTS* (For Estimating Purposes Only)

SIZE	GATE	GLOBE	SWING CHECK
		Std.	Std.
1/8	4.66	0.71	3.41
1/4	8.52	1.31	1.70
3/8	15.64	2.40	6.25
1/2	24.89	3.82	9.96
3/4	45.40	6.96	18.16
1	76.70	11.77	30.68
1 1/4	135.73	20.82	54.29
1 1/2	189.09	29.01	75.64
2	327.67	50.26	131.07
2 1/2	480.32	73.68	192.13
3	741.65	113.76	296.66

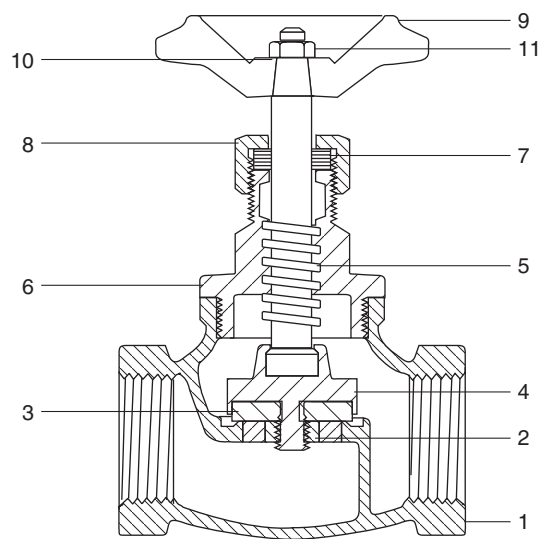
* Fully open. C_v = GPM @ 1 PSI Pressure Drop, 60°F Water

Bronze Globe Valves

Figure B-13TC



Class 125 • Inside Screw • Rising Stem • PTFE Disc • Threaded Ends



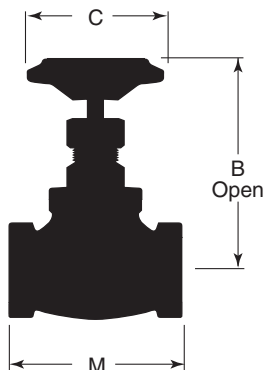
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
3	Disc	PTFE	
4	Disc Holder	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel Nut	Steel	A-29-1010

Complies with MSS SP-80, Type 2

Dimensions and Weights

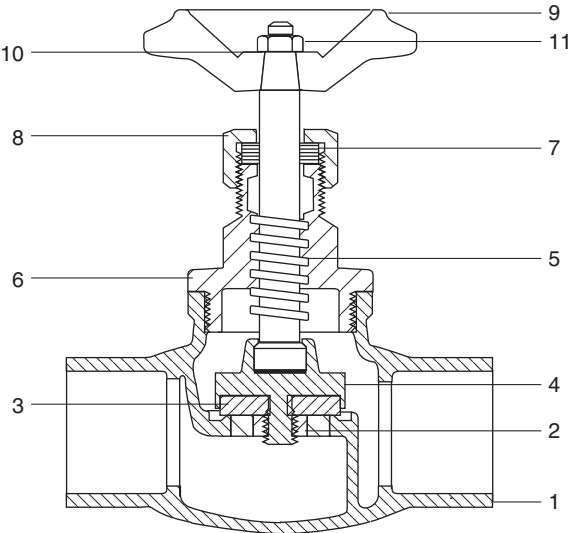
Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions			Wt.
	M	B	C	
1/4	1.85	2.87	2.13	0.70
	(47)	(73)	(54)	(.32)
3/8	1.87	3.62	2.56	0.70
	(48)	(92)	(65)	(.32)
1/2	2.28	3.62	2.56	0.96
	(58)	(92)	(65)	(.43)
3/4	2.83	4.25	2.56	1.43
	(72)	(108)	(65)	(.65)
1	3.46	4.65	2.76	2.15
	(88)	(118)	(70)	(.98)
1 1/4	4.01	5.39	3.27	3.20
	(102)	(137)	(83)	(1.45)
1 1/2	4.53	6.38	3.66	4.18
	(115)	(162)	(93)	(1.90)
2	5.35	6.53	4.41	4.78
	(136)	(166)	(112)	(2.17)

Figure B-14TC

200 CWP • Inside Screw • Rising Stem • PTFE Disc • Solder Ends



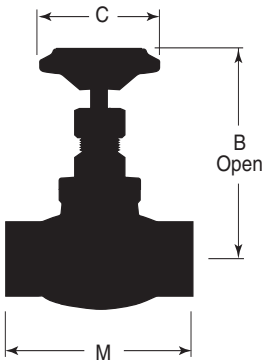
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
3	Disc	PTFE	
4	Disc Holder	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel Nut	Steel	A-29-1010

Complies with MSS SP-80, Type 2

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



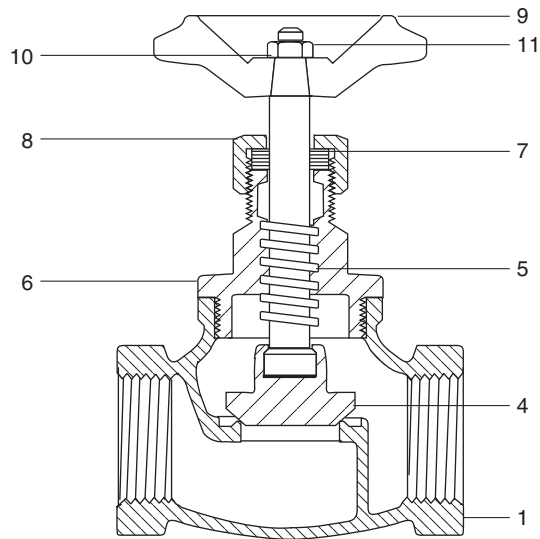
Valve Size	Dimensions			Wt.
	M	B	C	
3/8	2.56	2.87	2.13	0.61
	(65)	(73)	(54)	(.28)
1/2	2.87	3.62	2.56	0.88
	(73)	(92)	(65)	(.40)
3/4	3.62	4.25	2.56	1.36
	(92)	(108)	(65)	(.62)
1	4.37	4.65	2.76	2.15
	(111)	(118)	(70)	(.98)
1 1/4	5.12	5.39	3.27	3.25
	(130)	(137)	(83)	(1.48)
1 1/2	5.79	6.38	3.66	4.30
	(147)	(162)	(93)	(1.95)
2	7.08	6.53	4.41	4.30
	(180)	(166)	(112)	(1.95)

Bronze Globe Valves



Figure B-16C

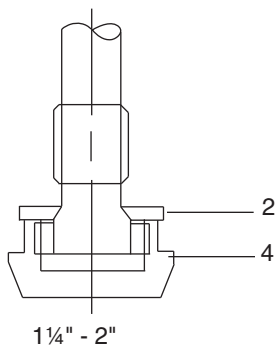
Class 125 • Inside Screw • Rising Stem • Brass Disc • Threaded Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
4	Disc	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel Nut	Steel	A-29-1010

Complies with MSS SP-80, Type 1



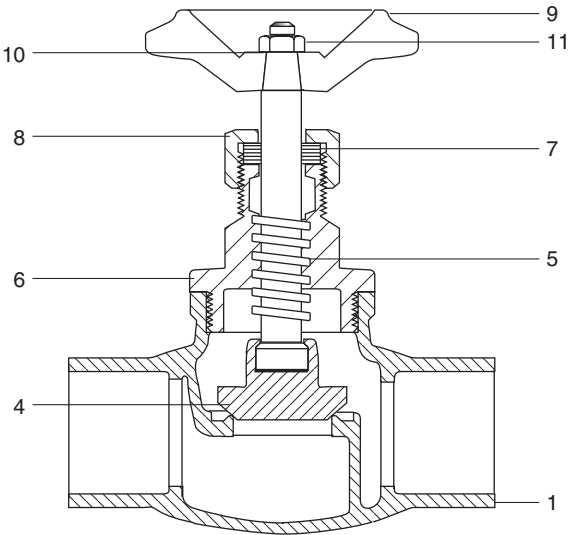
Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

Valve Size	Dimensions			Wt.
	M	B	C	
1/4	1.85	2.87	2.13	0.70
	(47)	(73)	(54)	(.32)
3/8	1.87	3.62	2.56	0.70
	(48)	(92)	(65)	(.32)
1/2	2.28	3.62	2.56	0.96
	(58)	(92)	(65)	(.43)
3/4	2.83	4.25	2.56	1.43
	(72)	(108)	(65)	(.65)
1	3.46	4.65	2.76	2.15
	(88)	(118)	(70)	(.98)
1 1/4	4.01	5.39	3.27	3.20
	(102)	(137)	(83)	(1.45)
1 1/2	4.53	6.38	3.66	4.18
	(115)	(162)	(93)	(1.90)
2	5.35	6.53	4.41	4.78
	(136)	(166)	(112)	(2.17)

Figure B-17C

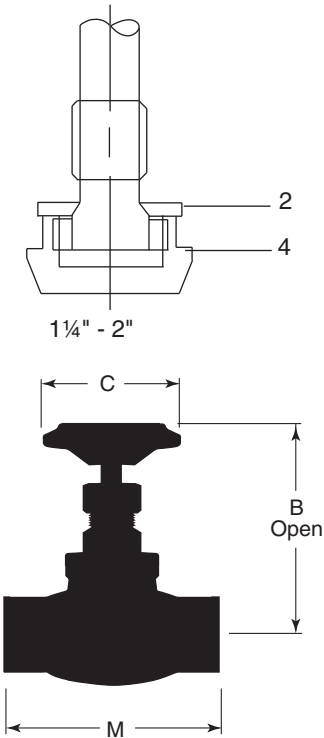
200 CWP • Inside Screw • Rising Stem • Brass Disc • Solder Ends



Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
4	Disc	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel Nut	Steel	A-29-1010

Complies with MSS SP-80, Type 1



Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

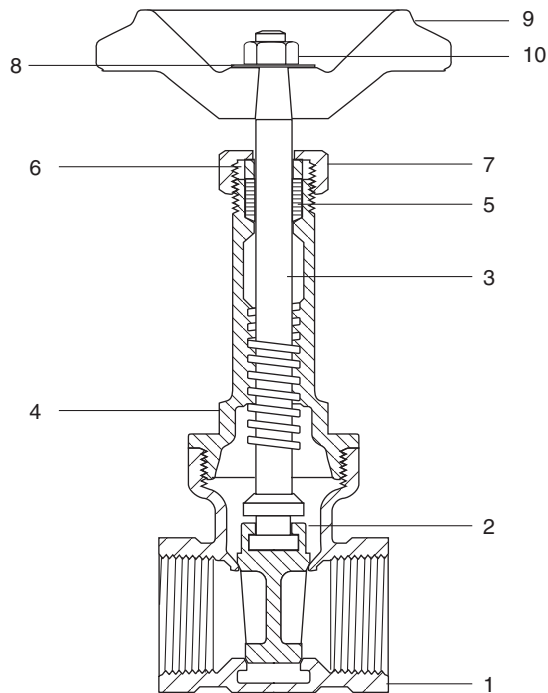
Valve Size	Dimensions			Wt.
	M	B	C	
3/8	2.56	2.87	2.13	0.61
	(65)	(73)	(54)	(.28)
1/2	2.87	3.62	2.56	0.88
	(73)	(92)	(65)	(.40)
3/4	3.62	4.25	2.56	1.36
	(92)	(108)	(65)	(.62)
1	4.37	4.65	2.76	2.15
	(111)	(118)	(70)	(.98)
1 1/4	5.12	5.39	3.27	3.25
	(130)	(137)	(83)	(1.48)
1 1/2	5.79	6.38	3.66	4.30
	(147)	(162)	(93)	(1.95)
2	7.08	6.53	4.41	4.30
	(180)	(166)	(112)	(1.95)

Bronze Gate Valves

Figure B-100C



Class 125 • Inside Screw • Rising Stem • Solid Disc • Threaded Ends



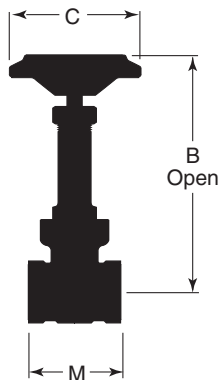
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Packing	PTFE OR PTFE and Neoprene LK	35NAF
6	Packing Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000 or B-124 C37700 or B-62 C83600
8	I.D. Plate	Aluminum	
9	Handwheel	Cast Iron	
10	Handwheel Nut	Steel	

Complies with MSS SP-80, Type 2

Dimensions and Weights

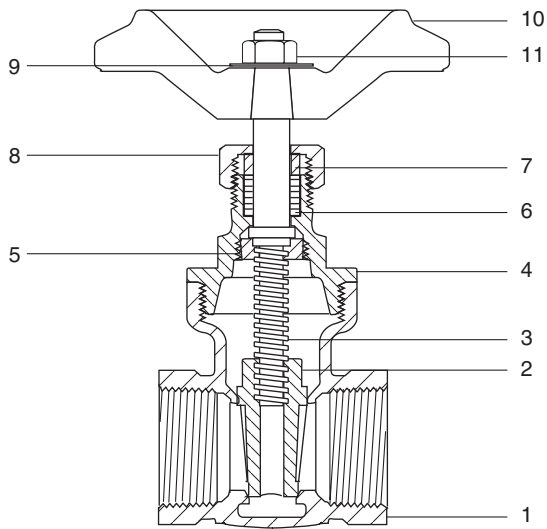
Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions			Wt.
	C	B	M	
¼	2.13	4.92	1.65	0.50
	(54)	(125)	(42)	(.22)
⅜	2.13	4.92	1.65	0.50
	(54)	(125)	(42)	(.22)
½	2.13	4.98	1.97	0.80
	(54)	(126)	(50)	(.36)
¾	2.40	5.69	2.00	1.10
	(61)	(145)	(51)	(.50)
1	3.03	7.21	2.36	1.80
	(77)	(183)	(60)	(.81)
1¼	3.03	8.11	2.68	2.40
	(77)	(206)	(68)	(1.08)
1½	3.27	9.46	2.83	3.20
	(83)	(240)	(72)	(1.44)
2	4.13	12.06	3.07	5.00
	(105)	(306)	(78)	(2.25)
2½	4.41	13.75	4.01	10.70
	(112)	(349)	(102)	(4.83)
3	5.19	16.10	4.57	16.80
	(132)	(409)	(116)	(7.59)

Figure B-103C

Class 125 • Inside Screw • Non-Rising Stem • Bronze Disc • Threaded Ends



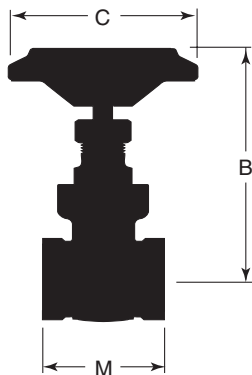
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Lock Nut	Brass	B-16 C36000
6	Packing	PTFE OR PTFE and Neoprene LK 35NAF	
7	Packing Gland	Brass	B-16 C36000
8	Packing Nut	Brass	B-16 C36000 or B-124 C37700 or B-62 C83600
9	I.D. Plate	Aluminum	
10	Handwheel	Cast Iron	
11	Handwheel Nut	Steel	

Complies with MSS SP-80, Type 1

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



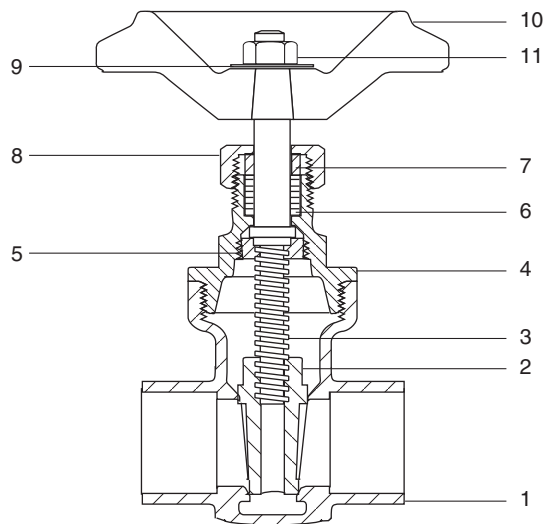
Valve Size	Dimensions			Wt.
	C	B	M	
¼	2.56	2.95	1.65	0.50
	(65)	(75)	(42)	(.22)
⅜	2.56	2.95	1.65	0.50
	(65)	(75)	(42)	(.22)
½	2.56	3.03	1.97	0.70
	(65)	(77)	(50)	(.32)
¾	2.56	3.50	2.00	1.00
	(65)	(91)	(51)	(.45)
1	2.75	4.21	2.36	1.50
	(70)	(107)	(60)	(.68)
1¼	3.27	4.68	2.68	2.10
	(83)	(119)	(68)	(.94)
1½	3.27	5.47	2.83	2.70
	(83)	(139)	(72)	(1.22)
2	3.66	6.69	3.07	4.50
	(93)	(170)	(78)	(2.03)
2½	4.41	7.87	4.01	10.60
	(112)	(200)	(102)	(4.88)
3	5.19	9.01	4.57	15.80
	(132)	(229)	(116)	(7.13)

Bronze Gate Valves

Figure B-104C



200 CWP • Inside Screw • Non-Rising Stem • Bronze Disc • Solder Ends



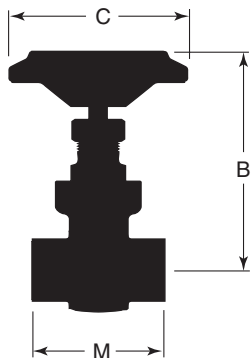
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Lock Nut	Brass	B-16 C36000
6	Packing	PTFE OR PTFE and Neoprene LK 35NAF	
7	Packing Gland	Brass	B-16 C36000
8	Packing Nut	Brass	B-16 C36000 or B-124 C37700 or B-62 C83600 or
9	I.D. Plate	Aluminum	
10	Handwheel	Cast Iron	
11	Handwheel Nut	Steel	

Complies with MSS SP-80, Type 1

Dimensions and Weights

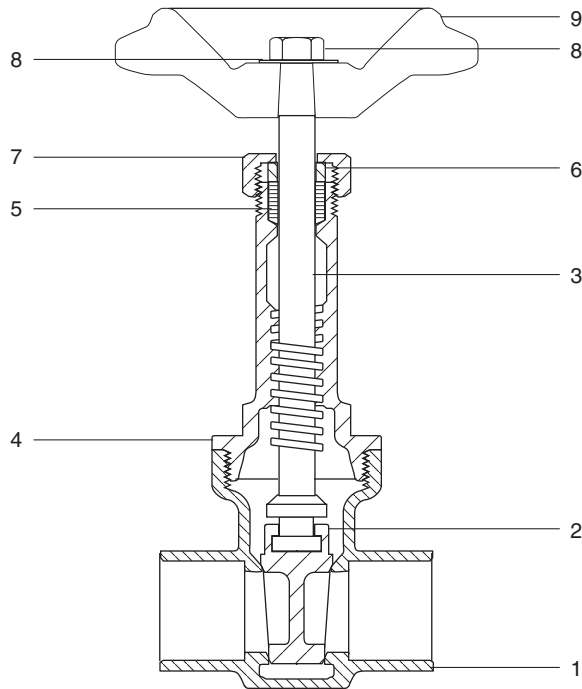
Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions			Wt.
	C	B	M	
3/8	2.56	2.95	1.57	0.50
	(65)	(75)	(40)	(.22)
1/2	2.56	3.03	1.89	0.70
	(65)	(77)	(48)	(.32)
3/4	2.56	3.50	2.36	1.00
	(65)	(91)	(60)	(.45)
1	2.75	4.21	2.79	1.50
	(70)	(107)	(71)	(.68)
1 1/4	3.27	4.68	3.15	2.10
	(83)	(119)	(80)	(.94)
1 1/2	3.27	5.47	3.46	2.70
	(83)	(139)	(88)	(1.22)
2	3.66	6.69	4.09	4.50
	(93)	(170)	(104)	(2.03)
2 1/2	4.41	7.87	4.72	10.60
	(112)	(200)	(120)	(4.88)
3	5.19	9.01	5.35	15.80
	(132)	(229)	(136)	(7.13)

Figure B-108C

200 CWP • Inside Screw • Rising Stem • Solid Disc • Solder Ends



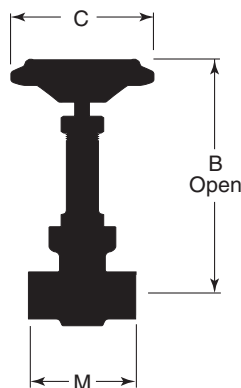
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Packing	PTFE or PTFE and Neoprene LK 35NAF	
6	Packing Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000 or B-124 C37700 or B-62 C83600
8	I.D. Plate	Aluminum	
9	Handwheel	Cast Iron	
10	Handwheel Nut	Steel	

Complies with MSS SP-80, Type 2

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



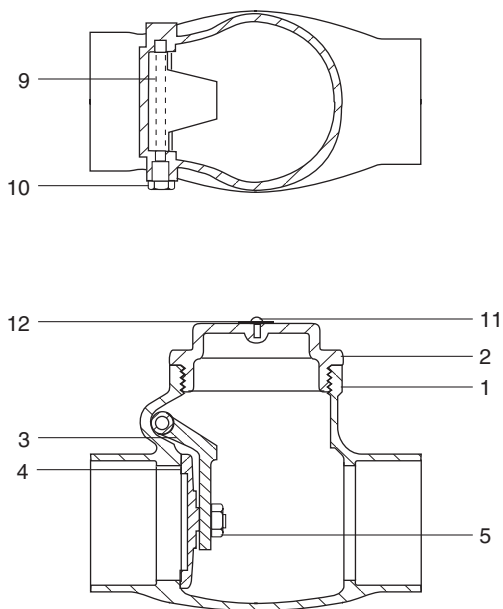
Valve Size	Dimensions			Wt.
	C	B	M	
3/8	2.56 (65)	4.92 (125)	1.57 (40)	0.50 (.22)
1/2	2.56 (65)	4.98 (126)	1.89 (48)	0.70 (.32)
3/4	2.56 (65)	5.69 (145)	2.36 (60)	1.00 (.45)
1	2.75 (70)	7.21 (183)	2.79 (71)	1.60 (.72)
1 1/4	3.27 (83)	8.11 (206)	3.15 (80)	2.70 (1.22)
1 1/2	3.27 (83)	9.46 (240)	3.46 (88)	3.50 (1.58)
2	3.66 (93)	12.06 (306)	4.09 (104)	5.30 (2.39)
2 1/2	4.41 (112)	13.75 (349)	4.72 (120)	10.70 (4.83)
3	5.19 (132)	16.10 (409)	5.35 (136)	15.10 (6.82)

Bronze Swing Check Valves*



Figure B-309C

Class 125 • Bronze Cap • Brass/Bronze Disc • Solder Ends



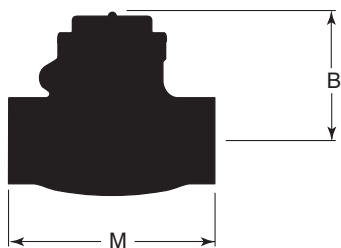
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
3	Hinge	Bronze	B-62 C83600
4	Disc	$\frac{3}{8}$ - 1 Brass	B-16 C36000
		1 $\frac{1}{4}$ - 3 Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000
9	Pin	Brass	B-16 C36000
10	Screw	Brass	B-16 C36000
11	Drive Pin	Mild Steel	
12	Name Plate	Aluminum	

Complies with MSS SP-80, Type 3

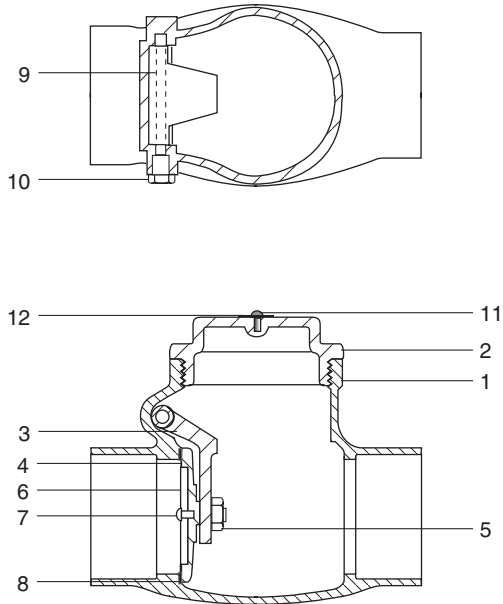
Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions		Wt.
	B	M	
$\frac{3}{8}$	1.50 (38)	2.28 (58)	0.60 (.27)
	1.77 (45)	2.60 (66)	0.80 (.36)
$\frac{1}{2}$	1.93 (49)	3.23 (82)	0.90 (.41)
	2.28 (58)	3.86 (98)	1.40 (.63)
1	2.56 (65)	4.49 (114)	2.50 (1.13)
	2.87 (73)	5.12 (130)	2.80 (1.26)
1 $\frac{1}{2}$	3.50 (89)	6.14 (156)	4.20 (1.90)
	4.25 (108)	7.24 (184)	7.20 (3.25)
2	4.84 (123)	8.27 (210)	8.80 (3.97)

* Not recommended for use in reciprocating air compressor service.



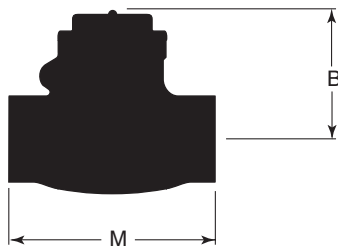
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
3	Hinge	Bronze	B-62 C83600
4	Disc Holder	Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000
6	Washer	Brass	B-16 C36000
7	Screw	Brass	B-16 C36000
8	Disc	B-310TC PTFE B-310BC Buna-N	
9	Pin	Brass	B-16 C36000
10	Screw	Brass	B-16 C36000
11	Drive Pin	Mild Steel	
12	Name Plate	Aluminum	

Complies with MSS SP-80, Type 4

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions		Wt.
	B	M	
1/2	1.77 (45)	2.60 (66)	0.80 (.36)
3/4	1.93 (49)	3.23 (82)	0.90 (.41)
1	2.28 (58)	3.86 (98)	1.40 (.63)
1 1/4	2.56 (65)	4.49 (114)	2.50 (1.13)
1 1/2	2.87 (73)	5.12 (130)	2.80 (1.26)
2	3.50 (89)	6.14 (156)	4.20 (1.90)
2 1/2	4.25 (108)	7.24 (184)	7.20 (3.25)
3	4.84 (123)	8.27 (210)	8.80 (3.97)

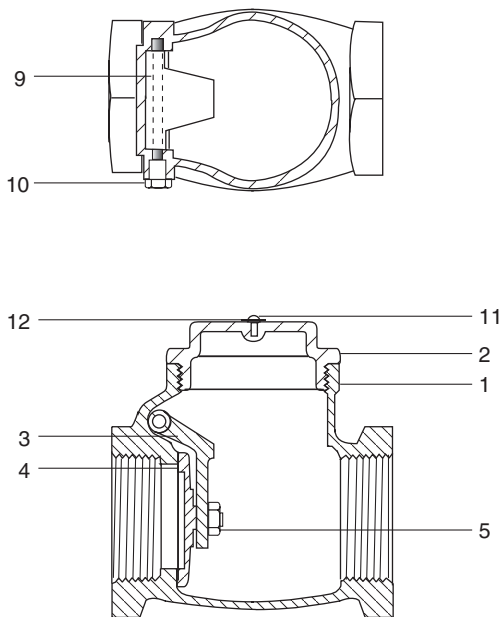
* Not recommended for use in reciprocating air compressor service.

Bronze Swing Check Valves*



Figure B-319C

Class 125 • Bronze Cap • Brass/Bronze Disc • Threaded Ends



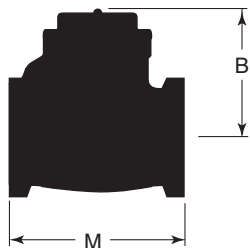
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
3	Hinge	Bronze	B-62 C83600
4	Disc	1/4-1 Brass	B-16 C36000
		1 1/4-3 Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000
9	Pin	Brass	B-16 C36000
10	Screw	Brass	B-16 C36000
11	Drive Pin	Mild Steel	
12	Name Plate	Aluminum	

Complies with MSS SP-80, Type 3

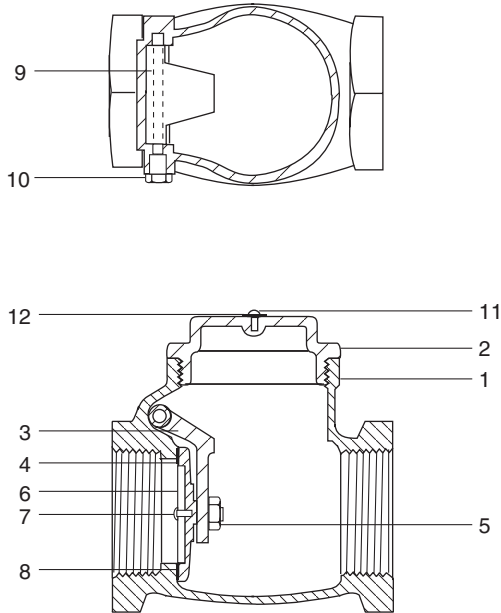
Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50	2.12	0.70
	(38)	(54)	(.32)
3/8	1.50	2.12	0.70
	(38)	(54)	(.32)
1/2	1.77	2.60	0.80
	(45)	(66)	(.36)
3/4	1.93	2.75	1.00
	(49)	(70)	(.45)
1	2.28	3.27	1.40
	(58)	(83)	(.63)
1 1/4	2.56	3.78	2.70
	(65)	(96)	(1.22)
1 1/2	2.87	4.25	2.90
	(73)	(108)	(1.31)
2	3.50	5.04	4.40
	(89)	(128)	(1.98)
2 1/2	4.25	6.30	7.60
	(108)	(160)	(3.42)
3	4.84	7.09	9.30
	(123)	(180)	(4.19)

* Not recommended for use in reciprocating air compressor service.



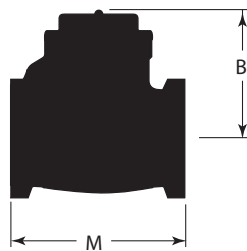
Materials of Construction

No.	Description	Material	ASTM Spec.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-61 C92200
3	Hinge	Bronze	B-62 C83600
4	Disc Holder	Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000
6	Washer	Brass	B-16 C36000
7	Screw	Brass	B-16 C36000
8	Disc	B-320BC Buna-N B-320TC PTFE B-320VC Viton	
9	Pin	Brass	B-16 C36000
10	Screw	Brass	B-16 C36000
11	Drive Pin	Mild Steel	
12	Name Plate	Aluminum	

Complies with MSS SP-80, Type 4

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)



Valve Size	Dimensions		Wt.
	B	M	
1/4	1.50 (38)	2.12 (54)	0.70 (.32)
3/8	1.50 (38)	2.12 (54)	0.70 (.32)
1/2	1.77 (45)	2.60 (66)	0.80 (.36)
3/4	1.93 (49)	2.75 (70)	1.00 (.45)
1	2.28 (58)	3.27 (83)	1.40 (.63)
1 1/4	2.56 (65)	3.78 (96)	2.70 (1.22)
1 1/2	2.87 (73)	4.25 (108)	2.90 (1.31)
2	3.50 (89)	5.04 (128)	4.40 (1.98)
2 1/2	4.25 (108)	6.30 (160)	7.60 (3.42)
3	4.84 (123)	7.09 (180)	9.30 (4.19)

* Not recommended for use in reciprocating air compressor service.

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