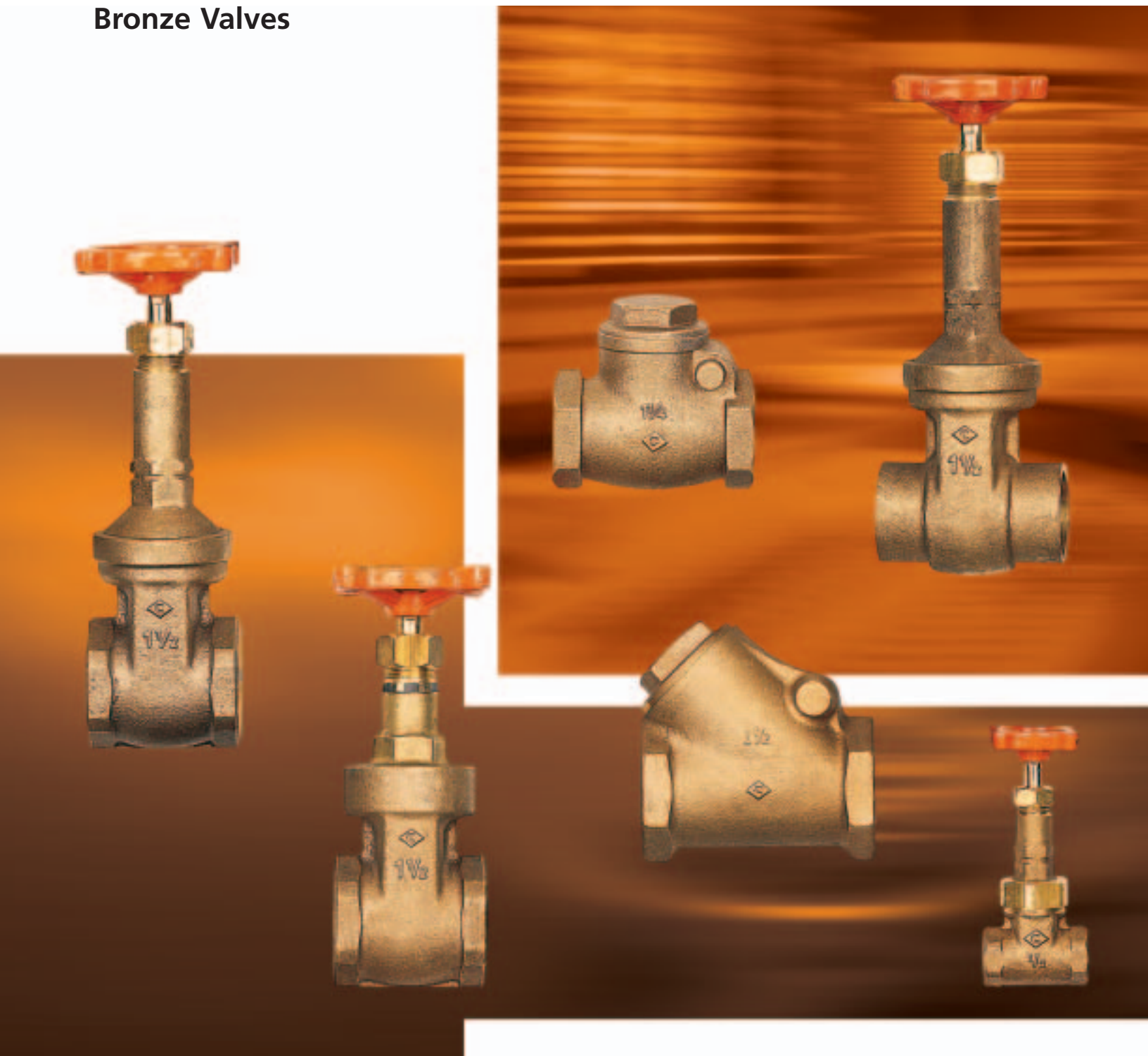


STOCKHAM

Bronze Valves



SETTING THE STANDARD IN SERVICE

CRANE
THE VALVE EXPERTS

Setting the Standard in Service

The Stockham Guarantee

Stockham is committed to setting the standard in quality service to the Building Services industry.

Our pledge to our customers is:

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



FIGURE NUMBER INDEX

BRONZE VALVES

FIG. NO.	PAGE
B-13T	9
B-14T	10
B-16	11
B-17	12
B-20T	14
B-22T	15
B-29	17
B-32T	18
B-37	19
B-62	20
B-64	21
B-66	23
B-74	25
B-100	27
B-103	29
B-104	30
B-105	31

BRONZE VALVES

FIG. NO.	PAGE
B-108	28
B-120	32
B-122	33
B-124	34
B-128	35
B-131	36
B-132	37
B-135	38
B-140	39
B-144	40
B-145	41
B-147	42
B-220	13
B-222T	16
B-264	22
B-266	24

BRONZE VALVES

FIG. NO.	PAGE
B-274	26
B-309Y	47
B-310BY	43
B-310TY	44
B-314	49
B-316	50
B-319Y	48
B-320BY	45
B-320TY	46
B-321	53
B-322B	51
B-322T	52
B-337	54
B-345	55
B-367	57
B-375	56

COMMERCIAL FIGURE NUMBER INDEX

IRON VALVES

FIG. NO.	PAGE
B-13TC	61
B-14TC	62
B-16C	63
B-17C	64
B-100C	65
B-103C	66
B-104C	67
B-108C	68
B-309C	69
B-310BC	70
B-310TC	70
B-319C	71
B-320BC	72
B-320TC	72
B-320BC	72

Bronze Valves

General Information	5-8
Globe and Angle Valves	
Class 125	9-12
Class 150	13-17
Class 200	18-22
Class 300	23-26
Gate Valves	
Class 125	27-31
Class 150	32-36
Class 200	37-39
Class 300	40-42
Check Valves	
Class 125	43-50
Class 150	51-53
Class 200	54-55
Class 300	56-57

Cross Reference

For Commonly Use 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

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

IRON

GLOBE

	<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	F667	F-667-0	F2894 A	1797	W786F

GATE

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

SWING CHECK

Class 150 Union Bonnet	G-931	F-918-B	F2974 A	559	W928F
------------------------	-------	---------	---------	-----	-------

STOP CHECK

Class 125 Straight-way Y-Pattern	F540	----	----	----	----
Class 250 Angle Y-Pattern	F-541	F-869-B	----	----	----

BALL

	<u>Stockham</u>	<u>NIBCO</u>	<u>Milwaukee</u>	<u>Apollo</u>
400 CWP Forged Brass Thd	S-214-FBR-T-T	T-580	-----	-----
400 CWP Forged Brass Sldr	S-214-FBR-T-S	S-580	-----	-----
600 CWP/125 SWP Forged Brass with Approvals Thd	S-206-UFBR-T-T	-----	-----	6400
600 CWP Forged Brass Sldr	S-206-FBR-T-S	-----	-----	
600 CWP/125 SWP Bronze Thd	S-206-BR-R-T	T-585	BA400	77 Series
600 CWP/125 SWP Bronze Sldr	S-206-BR-R-S	S-585	BA400	77 Series
600 CWP/125 SWP Bronze Thd SS Trim	S-206-BR1-R-T	T-585-70-66	BA400S	7714
600 CWP/125 SWP Forged Brass SS Trim	S-206-BR1-R-S	S-585-70-66	BA400S	7714

Bronze Valves

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 ANSI Standards. Continuous improvement are 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. A full description of the materials is in the Technical Data Booklet.

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 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-ANSI 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, 2-1/2" 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
		1/4" through 1"	1-1/4" through 2"	2-1/2" through 4"	1/4" 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

Bronze Valves

DESIGN: 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—Bonnetts are either the threaded or union type.

Disc—All discs are the tapered solid wedge type. Disc guides assure alignment and minimize friction on seats. Discs 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 ANSI/ASME B.1.20.1 Standard. Solder ends conform to the ANSI 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 ANSI 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.

DESIGN: GLOBE AND ANGLE VALVES- CLASSES 125, 150, 200, and 300

Handwheel—Heat-dissipating malleable handwheels are accurately fitted to stems.

Nameplate—For identification, aluminum nameplates are used. This simplifies parts replacement.

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

Bonnet—Bonnetts 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 ANSI/ASME B1.20.1. Solder ends conform to the ANSI 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 ANSI B16.24, the standard covering Classes 150 and 300 bronze flanges.

Bronze Valves

DESIGN: SWING AND LIFT CHECK VALVES CLASSES 125,150,200, and 300

Body—Threaded pipe ends conform to ANSI/ASME B1.20.1. Most threaded end valves can be bored for silver brazed end connections. Solder ends comply with the ANSI 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 ANSI 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 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 brass 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.

C_v COEFFICIENTS*

(For Estimating Purposes Only)

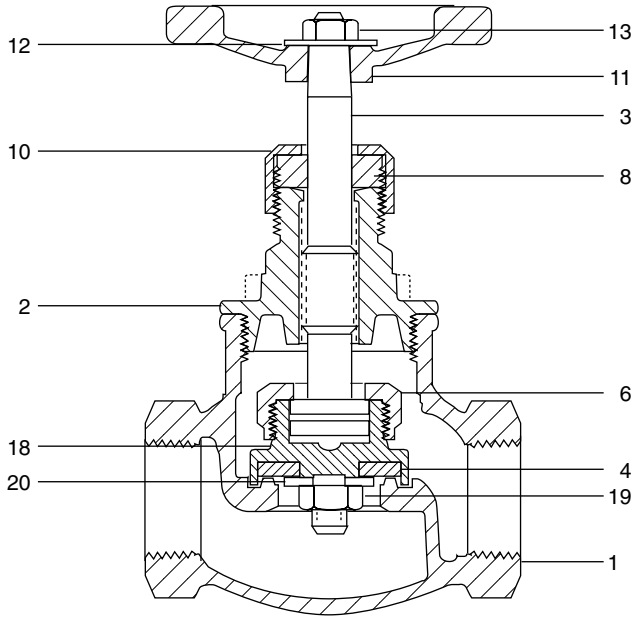
SIZE	GATE	GLOBE		ANGLE	CHECK		
		Std.	Needle		Y-Type Swing	Std. Swing	Lift
1/8	4.66	0.71	0.16	-	-	1.86	-
1/4	8.52	1.31	0.37	1.97	2.41	3.41	0.98
3/8	15.64	2.40	0.51	3.61	4.42	6.25	1.81
1/2	24.89	3.82	1.09	5.75	7.04	9.96	2.87
3/4	45.40	6.96	2.25	10.48	12.84	18.16	5.24
1	76.70	11.77	-	17.71	21.70	30.68	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. C_v = GPM @ 1 PSI Pressure Drop, 60°F Water

Class 125 Bronze Globe Valves

Fig.
B-13T

Threaded Bonnet • PTFE Disc



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	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Brass	B-16 H02
		(1" - 2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II		
10	Packing Nut	($\frac{1}{2}$ " - $1\frac{1}{2}$ ")	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	($\frac{1}{2}$ ")	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

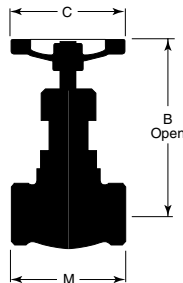
With the exception of the port opening, complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-13T, Globe, Threaded Ends

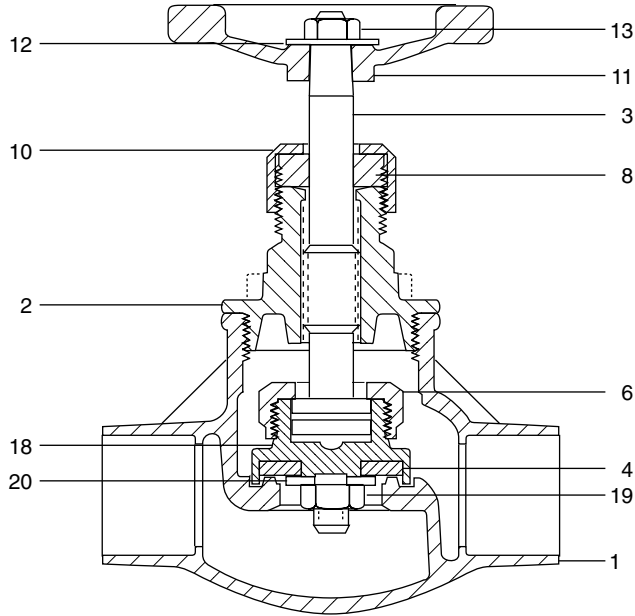


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
$\frac{3}{8}$	3.66	1.75	1.94	.71
	(93)	(44)	(49)	(.32)
$\frac{1}{2}$	3.50	2.75	2.56	1.02
	(89)	(70)	(65)	(.46)
$\frac{3}{4}$	4.31	2.75	2.96	1.58
	(110)	(70)	(75)	(.72)
1	4.76	3.25	3.50	2.34
	(121)	(83)	(89)	(1.06)
$1\frac{1}{4}$	5.26	4.00	3.86	3.56
	(134)	(102)	(98)	(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)

Class 125 Bronze Globe Valves

Fig.
B-14T

Threaded Bonnet • PTFE Disc



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	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Brass	B-16 H02
		(1" - 2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II		
10	Packing Nut	($\frac{1}{4}$ " - $1\frac{1}{2}$ ")	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	($\frac{1}{2}$ ")	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

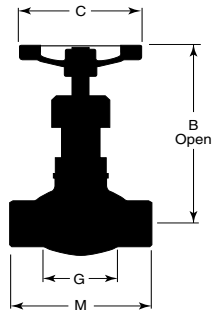
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-14T, Globe, Solder Ends

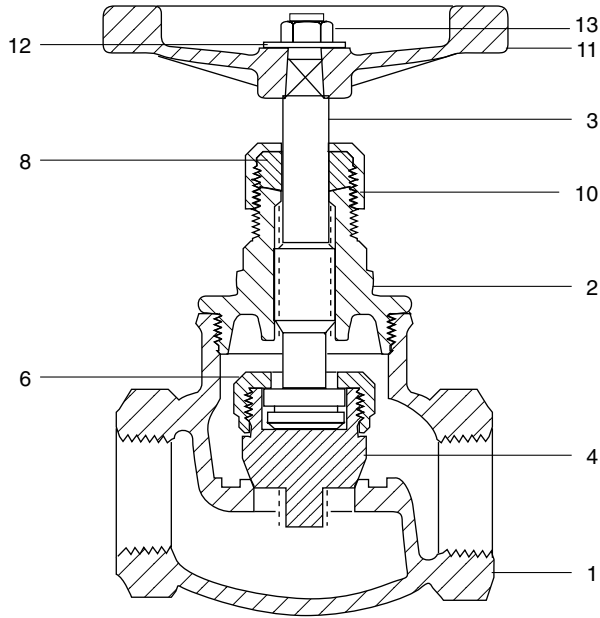


VALVE SIZE	DIMENSIONS				WT
	B	C	G	M	
$\frac{3}{8}$	4.25	2.75	2.00	2.72	.90
	(108)	(70)	(51)	(69)	(.41)
$\frac{1}{2}$	3.61	2.75	1.70	2.72	.90
	(92)	(70)	(43)	(69)	(.41)
$\frac{3}{4}$	4.51	2.75	2.00	3.52	1.50
	(115)	(70)	(50)	(89)	(.68)
1	4.84	3.25	2.40	4.24	2.10
	(123)	(83)	(61)	(108)	(.95)
$1\frac{1}{4}$	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)

Class 125 Bronze Globe Valves

Fig.
B-16

Threaded Bonnet • Bronze Disc



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Brass	B-16 H02
		($\frac{1}{2}$ " - 2")	Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400	
4	Disc	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Bronze	B-371 C69400
		($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Bronze	B-371 C69400
		(1"-2")	Brass	B-62 C83600
6	Disc Stem Ring	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Brass	B-16 H02
		(1"-2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform type II		
10	Packing Nut	($\frac{1}{4}$ " - 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)		

Industry Standards

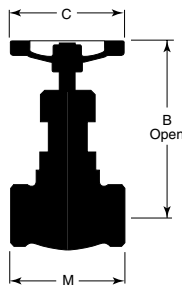
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-16, Globe, Threaded Ends

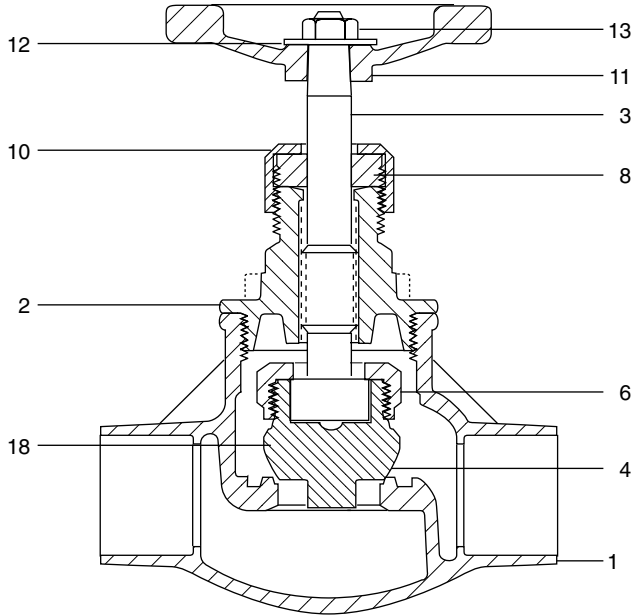


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
$\frac{1}{4}$	3.66	2.75	1.94	.68
	(93)	(70)	(49)	(.31)
$\frac{3}{8}$	3.66	2.75	1.94	.59
	(93)	(70)	(49)	(.28)
$\frac{1}{2}$	3.50	2.75	2.56	1.02
	(89)	(70)	(65)	(.46)
$\frac{3}{4}$	4.31	2.75	2.96	1.58
	(110)	(70)	(75)	(.72)
1	4.76	3.25	3.50	2.34
	(121)	(83)	(89)	(1.06)
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)

Class 125 Bronze Globe Valves

Fig.
B-17

Threaded Bonnet • Bronze Disc



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

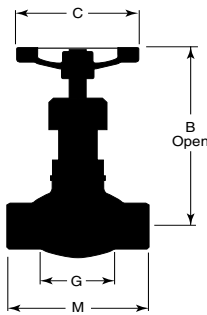
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-17, Globe, Solder Ends

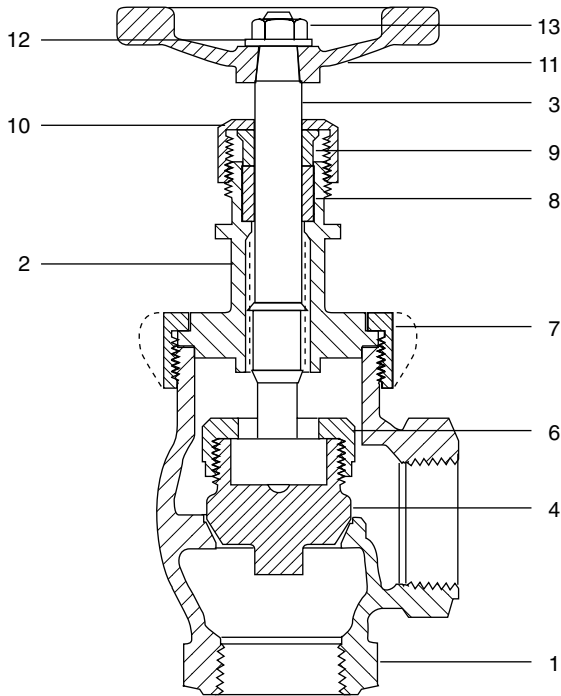


VALVE SIZE	DIMENSIONS				WT
	B	C	G	M	
1/2	3.61	2.75	1.70	2.72	.90
	(92)	(70)	(43)	(69)	(.41)
3/4	4.51	2.75	2.00	3.52	1.50
	(115)	(70)	(50)	(89)	(.68)
1	4.84	3.25	2.40	4.24	2.10
	(123)	(83)	(61)	(108)	(.95)
1 1/4	5.20	4.00	2.75	4.71	2.90
	(132)	(102)	(70)	(120)	(1.32)
1 1/2	5.82	4.00	3.32	5.52	4.50
	(148)	(102)	(84)	(140)	(2.05)
2	6.65	4.75	4.24	6.97	7.40
	(169)	(121)	(108)	(177)	(3.36)

Class 150 Bronze Angle Valves

Fig.
B-220

Union Bonnet • Bronze Disc



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	(1/2" - 2")	Bronze	B-371 C69400
4	Disc Stem	(1/4" - 3/8")	Bronze	B-371 C69400
4	Disc	(1/2" - 3/4")	Brass	B-16 H02
		(1" - 2")	Bronze	B-62 C83600
6	Disc Stem Ring	(1/2" - 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

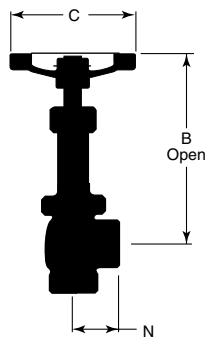
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-220, Angle, Threaded Ends

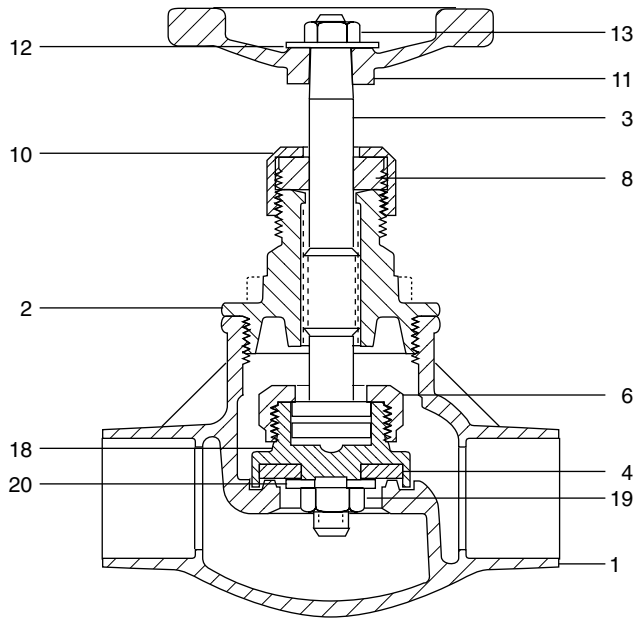


VALVE SIZE	DIMENSIONS			WT
	B	C	N	
1/4	4.34	2.75	.94	.70
	(110)	(70)	(24)	(.32)
3/8	4.34	2.75	.94	.80
	(110)	(70)	(24)	(.36)
1/2	4.02	2.75	1.15	1.60
	(102)	(70)	(29)	(.73)
3/4	4.98	2.75	1.39	2.30
	(126)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 1/4	6.17	4.00	2.00	5.00
	(157)	(102)	(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)

Class 150 Bronze Globe Valves

Fig.
B-20T

Threaded Bonnet • PTFE Disc



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	(1/2" - 3/4")	Brass	B-16 H02
		(1" - 2")	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II		
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	(1/2")	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

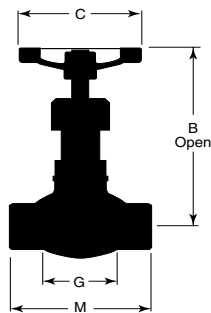
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-20T, Globe, Solder Ends

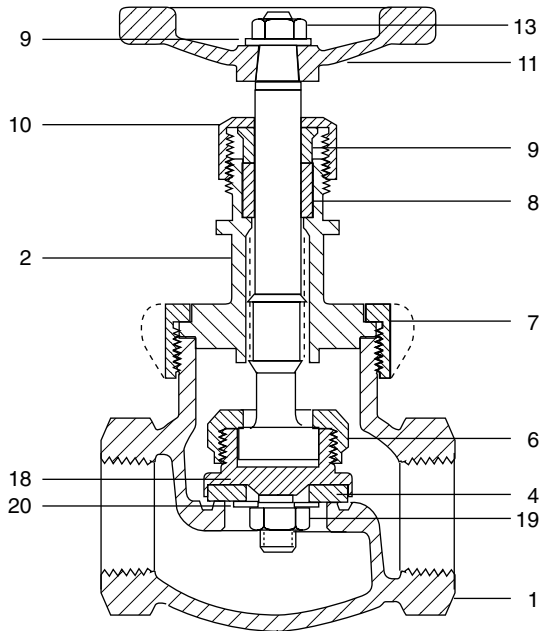


VALVE SIZE	DIMENSIONS				WT
	B	C	G	M	
1/2	3.61	2.75	1.70	2.72	.90
	(92)	(70)	(43)	(69)	(.41)
3/4	4.51	2.75	2.00	3.52	1.50
	(115)	(70)	(50)	(89)	(.68)
1	4.84	3.25	2.40	4.24	2.10
	(123)	(83)	(61)	(108)	(.95)
1 1/4	5.20	4.00	2.75	4.71	2.90
	(132)	(102)	(70)	(120)	(1.32)
1 1/2	5.82	4.72	3.32	5.52	4.50
	(148)	(120)	(84)	(140)	(2.03)
2	6.65	5.28	4.24	6.97	7.40
	(169)	(134)	(108)	(177)	(3.33)

Class 150 Bronze Globe Valves

Fig.
B-22T

Union Bonnet • PTFE Disc



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ") Brass	B-16 H02
		($\frac{1}{2}$ " - 2") Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400
4	Disc	PTFE	
6	Disc Stem Ring	($\frac{1}{2}$ " - $\frac{3}{4}$ ") 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	($\frac{1}{4}$ " - 1 $\frac{1}{2}$ ") 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 $\frac{1}{2}$ " - 3") Non-Asbestos	
*15	Driven-In Stud	(2 $\frac{1}{2}$ " - 3") Steel, Zinc Plated	
*16	Stud Nut	(2 $\frac{1}{2}$ " - 3") Steel	A-563
18	Disc Holder	($\frac{1}{4}$ " - $\frac{1}{2}$ ") Brass	B-16 H02
		($\frac{3}{4}$ " - 3") Bronze	B-62 C83600
19	Disc Retaining Nut	Brass	B-16 H02
20	Disc Retaining Washer	Brass	B-16 H02

Industry Standards

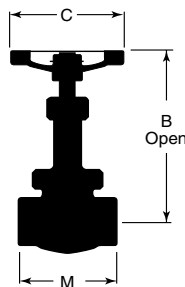
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-22T, Globe, Threaded Ends



VALVE SIZE	DIMENSIONS			WT
	B	C	M	
$\frac{1}{4}$	4.34	2.75	1.94	.90
	(110)	(70)	(49)	(.41)
$\frac{3}{8}$	4.34	2.75	1.94	.80
	(110)	(70)	(49)	(.36)
$\frac{1}{2}$	4.14	2.75	2.56	1.50
	(105)	(70)	(65)	(.68)
$\frac{3}{4}$	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 $\frac{1}{4}$	6.42	4.00	4.02	4.70
	(163)	(102)	(102)	(2.14)
1 $\frac{1}{2}$	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 $\frac{1}{2}$	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)

Class 150 Bronze Angle Valves

Fig.
B-222T

Union Bonnet • PTFE Disc

Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Brass	B-16 H02
		($\frac{1}{2}$ " - 2")	Bronze	B-62 C83600
3	Stem	Bronze	B-371 C69400	
4	Disc	PTFE		
6	Disc Stem Ring	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	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	($\frac{1}{4}$ " - 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	($\frac{1}{4}$ " - $\frac{1}{2}$ ")	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

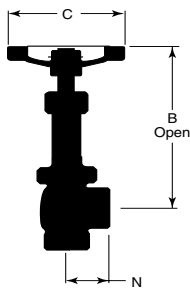
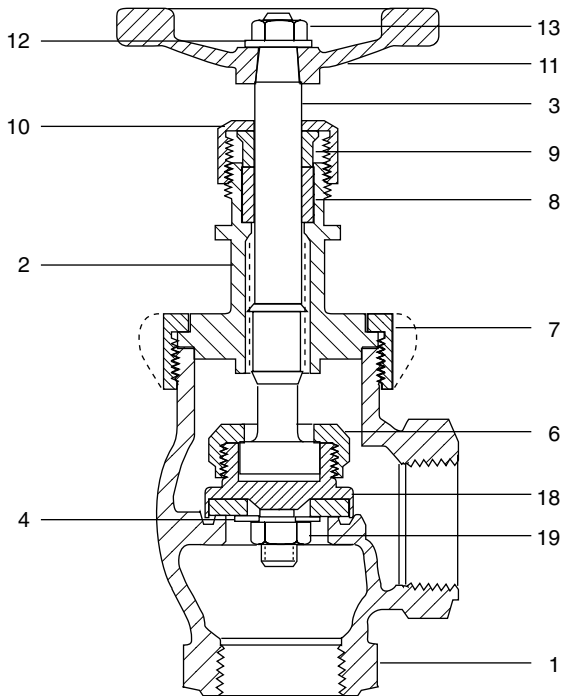
See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-222T, Angle, Threaded Ends

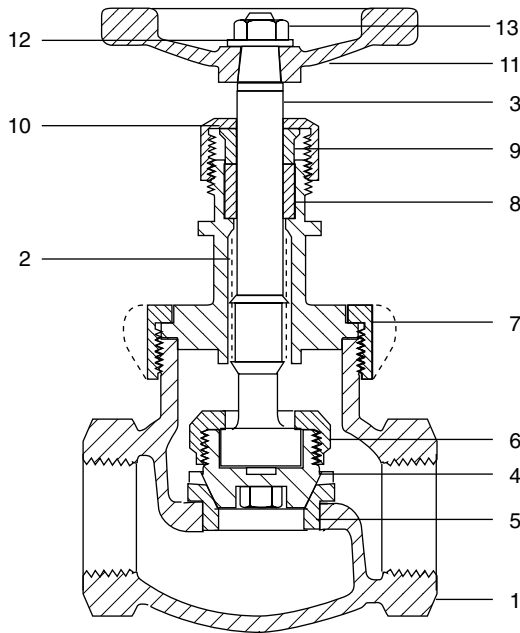
VALVE SIZE	DIMENSIONS			WT
	B	C	N	
$\frac{1}{4}$	4.34	2.75	.94	.70
	(110)	(70)	(24)	(.32)
$\frac{3}{8}$	4.34	2.75	.94	.80
	(110)	(70)	(24)	(.36)
$\frac{1}{2}$	4.02	2.75	1.15	1.60
	(102)	(70)	(29)	(.73)
$\frac{3}{4}$	4.98	2.75	1.39	2.30
	(126)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 $\frac{1}{4}$	6.17	4.00	2.00	5.00
	(157)	(102)	(50)	(2.25)
1 $\frac{1}{2}$	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)



Class 150 Bronze Globe Valves

Fig.
B-29

Union Bonnet • Stainless Steel Disc & Seat Ring



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Brass B-16 H02
		($\frac{1}{2}$ " - 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	($\frac{1}{4}$ " - $\frac{3}{4}$ ")	Brass B-16 H02
		(1" - 3")	Bronze B-61 C92200
7	Union Bonnet Ring ($\frac{1}{4}$ " - 2")	Bronze	B-62 C83600
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	($\frac{1}{4}$ " - $1\frac{1}{2}$ ")	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)	
*14	Gasket	($2\frac{1}{2}$ " - 3") Non-Asbestos	
*15	Driven-In Stud	($2\frac{1}{2}$ " - 3") Steel, Zinc Plated	
*16	Stud Nut	($2\frac{1}{2}$ " - 3") Steel	A-563

Industry Standards

Complies with MSS-SP-80 Type 3

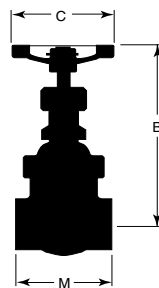
See page 6 for Pressure Temperature Ratings

* $2\frac{1}{2}$ " and 3" have Bolted Bonnet

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-29, Globe, Threaded Ends

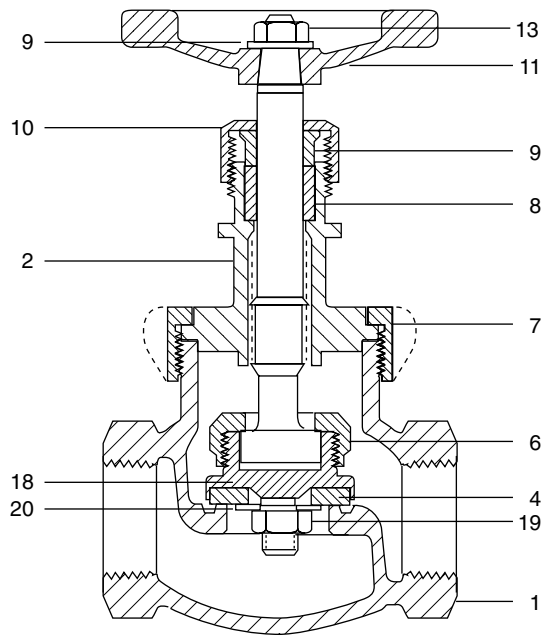


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
$\frac{1}{4}$	4.39	2.75	1.94	.80
	(112)	(70)	(49)	(.36)
$\frac{3}{8}$	4.39	2.75	1.94	1.10
	(112)	(70)	(49)	(.45)
$\frac{1}{2}$	4.09	2.75	2.56	1.70
	(104)	(70)	(65)	(.77)
$\frac{3}{4}$	4.18	2.75	2.96	2.40
	(106)	(70)	(75)	(1.09)
1	5.45	3.25	3.50	2.50
	(138)	(83)	(89)	(1.14)
$1\frac{1}{4}$	6.36	4.00	4.02	5.50
	(162)	(102)	(102)	(2.50)
$1\frac{1}{2}$	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)
$2\frac{1}{2}$	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)

Class 200 Bronze Globe Valves

Fig.
B-32T

Union Bonnet • RTFE Disc



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	(1/2" - 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		
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

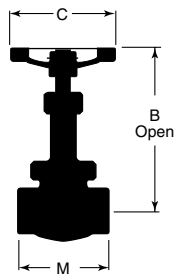
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-32T, Globe, Threaded Ends

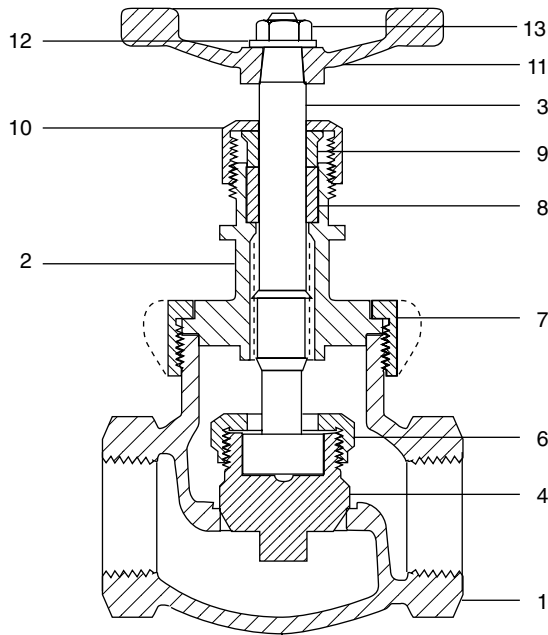


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.34	2.75	1.94	.90
	(110)	(70)	(49)	(.41)
3/8	4.34	2.75	1.94	.80
	(110)	(70)	(49)	(.36)
1/2	4.14	2.75	2.56	1.50
	(105)	(70)	(65)	(.68)
3/4	5.13	2.75	2.96	2.80
	(130)	(70)	(75)	(1.27)
1	5.45	3.25	3.50	3.40
	(138)	(83)	(89)	(1.55)
1 1/4	6.42	4.00	4.02	4.70
	(163)	(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)

Class 200 Bronze Globe Valves

Figs.
B-37

Union Bonnet • Regrinding Seat



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	(1/2" - 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

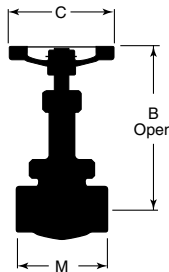
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-37, Globe, Threaded Ends

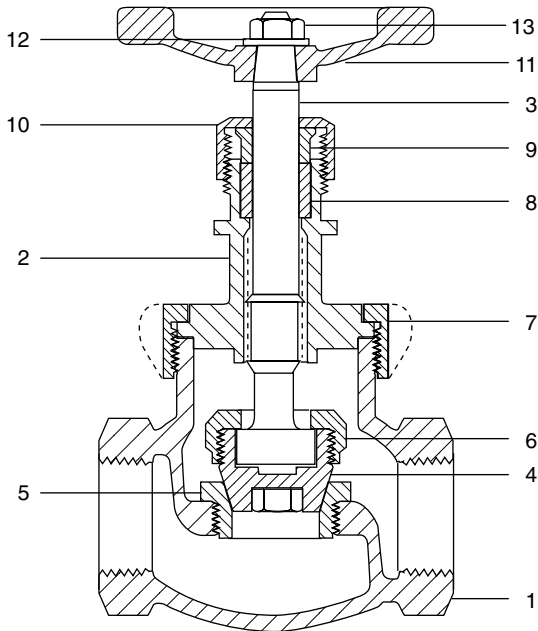


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.39	2.75	1.94	.8
	(112)	(70)	(49)	(0.4)
3/8	4.39	2.75	1.94	1.1
	(112)	(70)	(49)	(0.5)
1/2	4.09	2.75	2.56	1.8
	(104)	(70)	(65)	(0.8)
3/4	4.18	2.75	2.96	2.4
	(106)	(70)	(75)	(1.1)
1	5.45	3.25	3.50	3.8
	(138)	(83)	(89)	(1.7)
1 1/4	6.36	4.00	4.02	6.0
	(162)	(102)	(102)	(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)

Class 200 Bronze Globe Valves

Fig.
B-62

Union Bonnet • Plug-Type Disc



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

Industry Standards

Complies with MSS-SP-80 Type 3

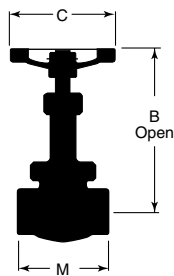
See page 6 for Pressure Temperature Ratings

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

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-62, Globe, Threaded Ends

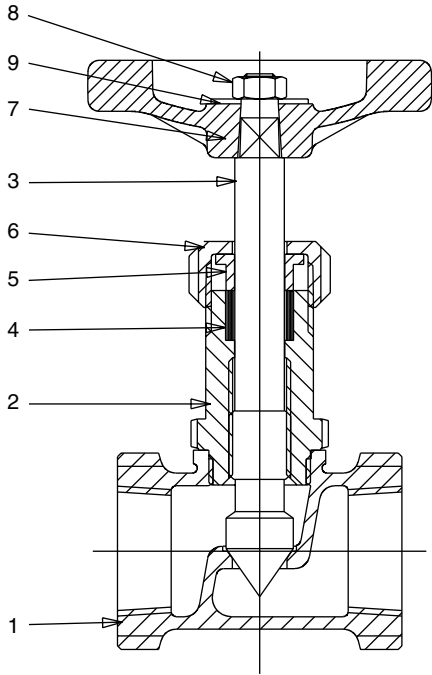


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.39	2.75	1.94	0.8
	(112)	(70)	(49)	(.36)
3/8	4.39	2.75	1.94	1.1
	(112)	(70)	(49)	(.45)
1/2	4.09	2.75	2.56	1.8
	(104)	(70)	(65)	(.82)
3/4	4.18	2.75	2.96	2.4
	(106)	(70)	(75)	(1.09)
1	5.45	3.25	3.50	3.8
	(138)	(83)	(89)	(1.73)
1 1/4	6.36	4.00	4.02	6.0
	(162)	(102)	(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)

Class 200 Bronze Globe Valves

Fig.
B-64

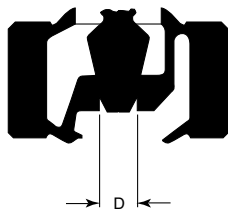
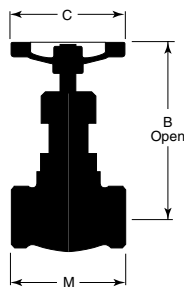
Threaded Bonnet • Needle Type Disc



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 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

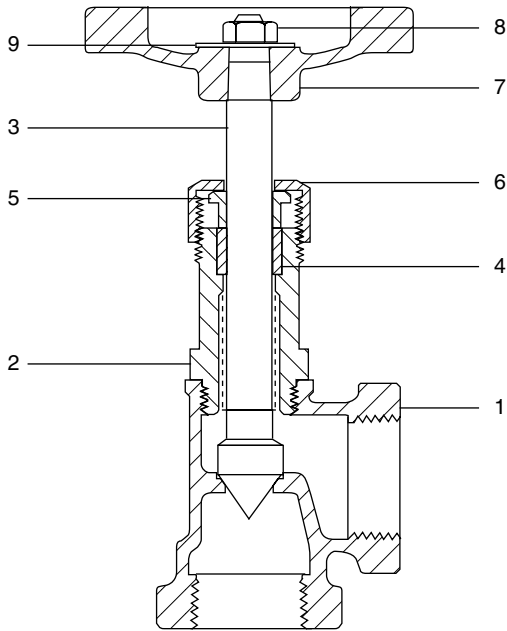
B-64, Globe, Threaded Ends

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)

Class 200 Bronze Angle Valves

Fig.
B-264

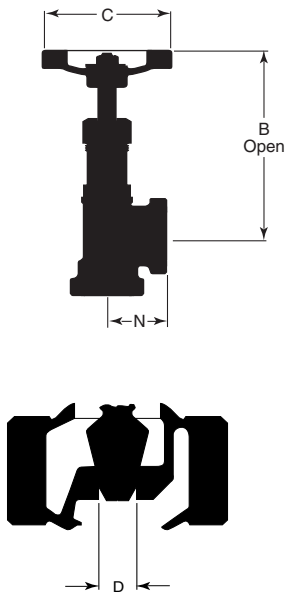
Threaded Bonnet • Needle Type Disc



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 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

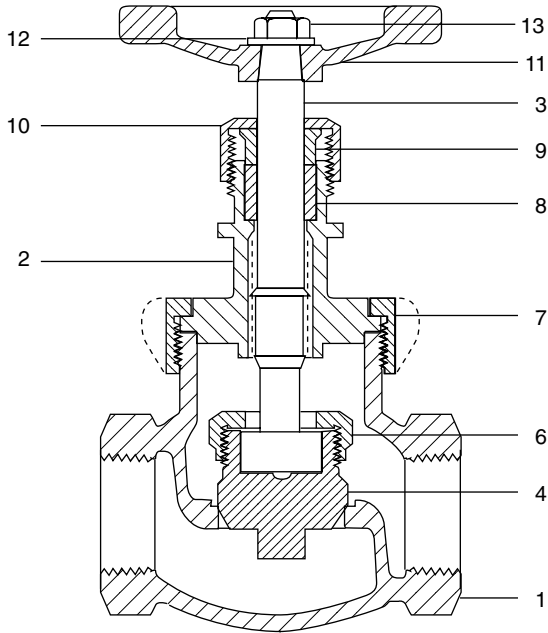
B-264, Angle, Threaded Ends

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

Class 300 Bronze Globe Valves

Fig.
B-66

Union Bonnet • Regrinding Seat



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 Stem	(1/4" - 3/8")	Bronze	B-371 C69400
4	Disc	(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

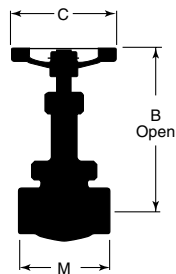
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-66, Globe, Threaded Ends

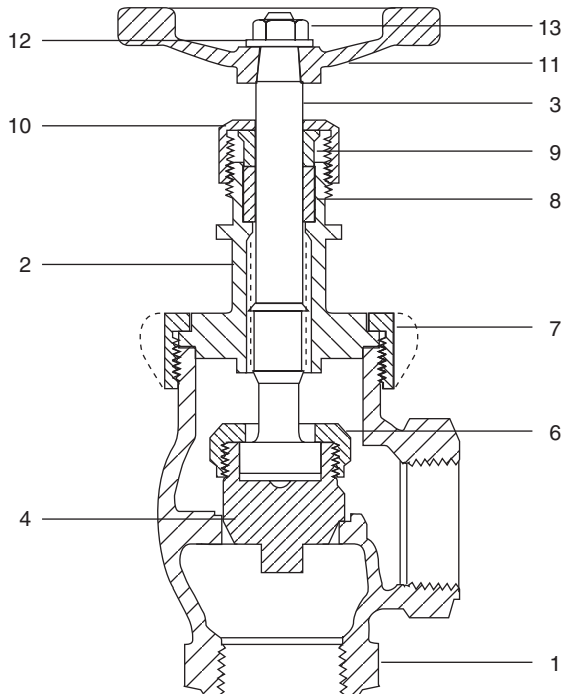


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.39	2.75	1.94	1.4
	(112)	(70)	(49)	(.64)
3/8	4.39	2.75	1.94	1.5
	(112)	(70)	(49)	(.68)
1/2	4.09	2.75	2.56	2.3
	(104)	(70)	(65)	(1.05)
3/4	4.18	2.75	2.96	2.8
	(106)	(70)	(75)	(1.27)
1	5.45	3.03	3.50	4.3
	(138)	(77)	(89)	(1.95)
1 1/4	6.36	4.00	4.02	8.1
	(162)	(102)	(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)

Class 300 Bronze Angle Valves

Fig.
B-266

Union Bonnet • Regrinding Seat



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Brass
		($\frac{1}{2}$ " - 2")	Bronze
3	Stem	($\frac{1}{2}$ " - 2")	Bronze
4	Disc Stem	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	Bronze
4	Disc	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Bronze
		(1" - 2")	Bronze
6	Disc Stem Ring	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	Brass
		(1" - 2")	Bronze
7	Union Bonnet Ring	Bronze	B-61 C92200
8	Packing	Anchor/Carboform Type II	
9	Gland	Brass	B-16 H02
10	Packing Nut	($\frac{1}{4}$ " - 1 $\frac{1}{2}$ ")	Brass
		(2")	Bronze
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

Industry Standards

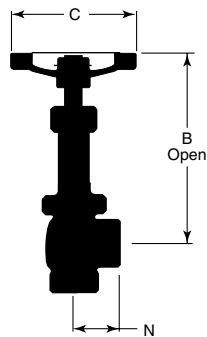
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-266, Angle, Threaded Ends

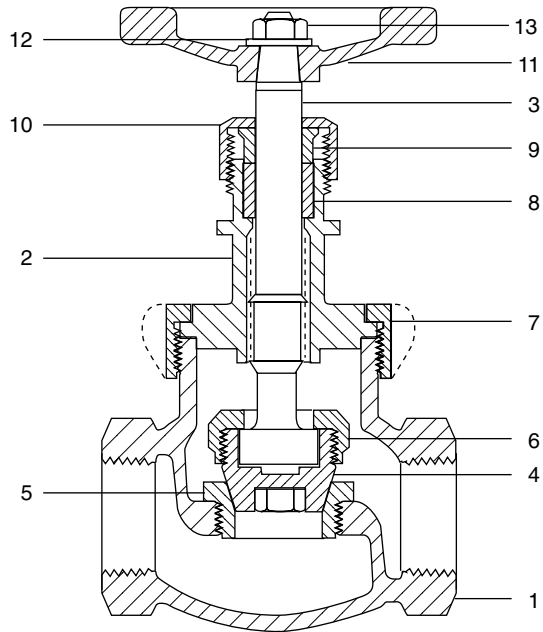


VALVE SIZE	DIMENSIONS			WT
	B	C	N	
$\frac{1}{4}$	4.27	2.75	1.13	.70
	(108)	(70)	(29)	(.32)
$\frac{3}{8}$	4.27	2.75	1.13	.80
	(108)	(70)	(29)	(.36)
$\frac{1}{2}$	3.97	2.75	1.15	1.60
	(101)	(70)	(29)	(.73)
$\frac{3}{4}$	4.03	2.75	1.39	2.30
	(103)	(70)	(35)	(1.05)
1	5.30	3.25	1.64	3.30
	(135)	(83)	(42)	(1.50)
1 $\frac{1}{4}$	6.11	4.00	2.00	5.00
	(155)	(102)	(50)	(2.25)
1 $\frac{1}{2}$	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)

Class 300 Bronze Globe Valves

Fig.
B-74

Union Bonnet • Plug-Type Disc Renewable Stainless Steel Seats



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	B-16 H02
		($\frac{1}{2}$ " - 3")	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	($\frac{1}{4}$ " - $\frac{3}{4}$ ")	B-16 H02
		(1" - 3")	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	($\frac{1}{4}$ " - 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)	
*14	Gasket	(2 $\frac{1}{2}$ " - 3")	Non-Asbestos
*15	Driven-In Stud	(2 $\frac{1}{2}$ " - 3")	Steel, Zinc Plated
*16	Stud Nut	(2 $\frac{1}{2}$ " - 3")	Steel
			A-563

* 2 $\frac{1}{2}$ " and 3" have Bolted Bonnet

Industry Standards

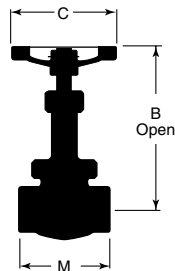
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-74, Globe, Threaded Ends

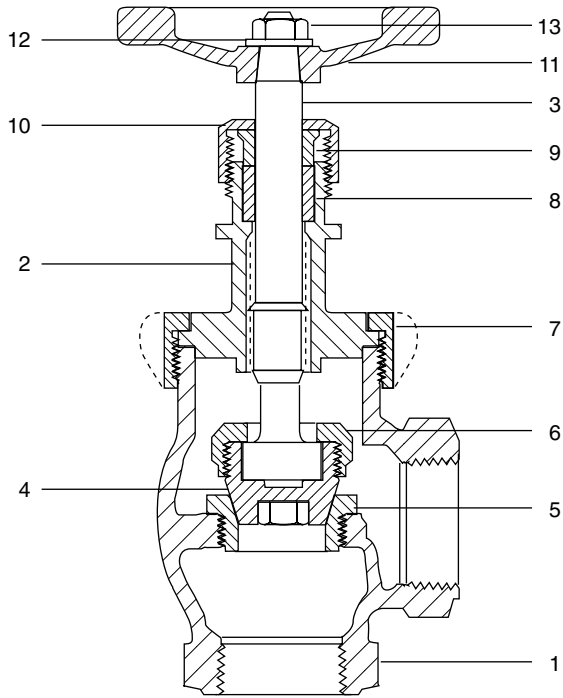


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
$\frac{1}{4}$	4.39	2.75	1.94	.80
	(112)	(70)	(49)	(.36)
$\frac{3}{8}$	4.39	2.75	1.94	1.1
	(112)	(70)	(49)	(.45)
$\frac{1}{2}$	4.09	2.75	2.56	1.8
	(104)	(70)	(65)	(.82)
$\frac{3}{4}$	4.18	2.75	2.96	2.4
	(106)	(70)	(75)	(1.09)
1	5.45	3.03	3.50	3.8
	(138)	(77)	(89)	(1.73)
1 $\frac{1}{4}$	6.36	4.00	4.02	6.0
	(162)	(102)	(102)	(2.73)
1 $\frac{1}{2}$	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 $\frac{1}{2}$	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)

Class 300 Bronze Angle Valves

Fig.
B-274

Union Bonnet • Plug-Type Disc Renewable Stainless Steel Seats



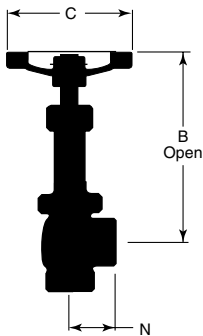
Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
2	Bonnet	($\frac{1}{4}$ " - $\frac{3}{8}$ ")	B-16 H02
		($\frac{1}{2}$ " - 2")	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	($\frac{1}{2}$ " - $\frac{3}{4}$ ")	B-16 H02
		(1" - 2")	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	($\frac{1}{4}$ " - $1\frac{1}{2}$ ")	B-16 H02
		(2")	B-584 C84400
11	Handwheel	Malleable Iron	A-197
12	ID Plate	Aluminum	
13	Handwheel Nut	Steel (Cad Dicro Finish)	

Industry Standards

Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

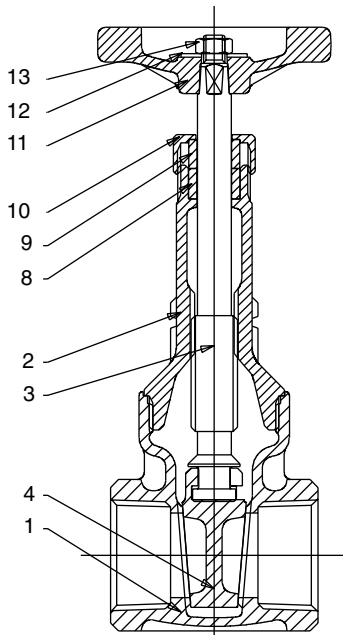
B-274, Angle, Threaded Ends

VALVE SIZE	DIMENSIONS			WT
	B	C	N	
$\frac{1}{4}$	4.27	2.75	1.13	.70
	(108)	(70)	(29)	(.32)
$\frac{3}{8}$	4.27	2.75	1.13	.80
	(108)	(70)	(29)	(.36)
$\frac{1}{2}$	3.97	2.75	1.15	1.60
	(101)	(70)	(29)	(.73)
$\frac{3}{4}$	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)
$1\frac{1}{4}$	6.11	4.00	2.00	5.00
	(155)	(102)	(50)	(2.25)
$1\frac{1}{2}$	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)

Class 125 Bronze Gate Valves

Fig.
B-100

Threaded Bonnet • Rising Stem Solid Wedge Disc



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
		(2 1/2" & 3")	Cu-Si Bronze
4	Disc	Bronze	B-62 C83600
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2")	Brass
		(2 1/2" & 3")	Bronze
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

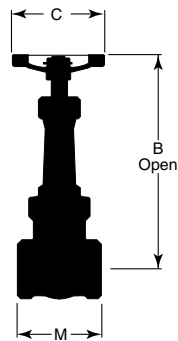
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-100, Threaded Ends

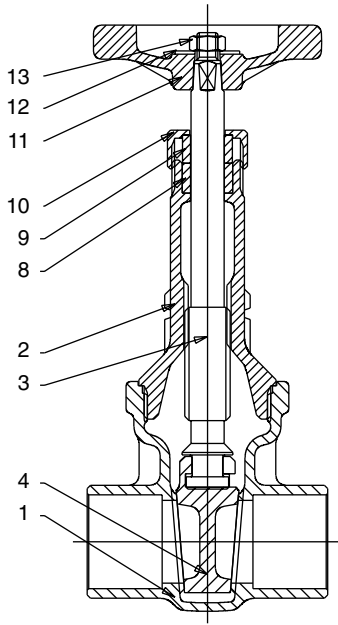


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.92	2.13	1.65	.5
	(125)	(54)	(42)	(.22)
3/8	4.92	2.13	1.65	.5
	(125)	(54)	(42)	(.22)
1/2	5.07	2.75	1.98	1.0
	(129)	(70)	(51)	(.48)
3/4	6.25	2.75	2.14	1.6
	(159)	(70)	(55)	(.72)
1	7.44	2.75	2.46	2.4
	(189)	(70)	(63)	(1.10)
1 1/4	8.62	3.25	2.77	3.3
	(219)	(83)	(71)	(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)

Class 125 Bronze Gate Valves

Fig.
B-108

Threaded Bonnet • Rising Stem Solid Wedge Disc



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	Disc	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

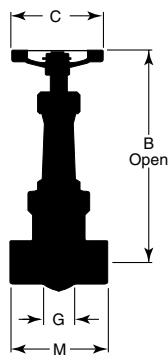
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-108, Solder Ends



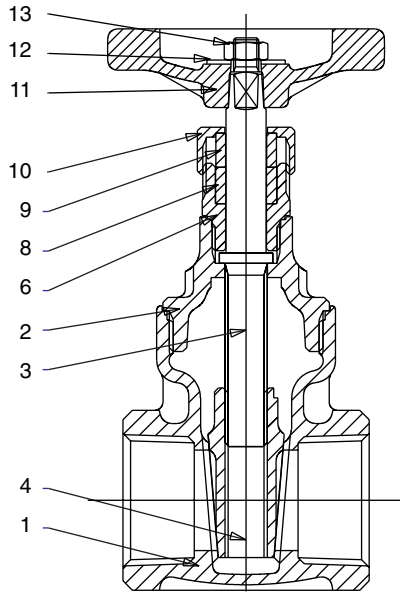
VALVE SIZE	DIMENSIONS				WT
	B	C	G*	M	
1/2	5.07	2.75	.92	1.90	.9
	(129)	(70)	(24)	(49)	(.41)
3/4	6.25	2.75	.95	2.44	1.4
	(159)	(70)	(24)	(62)	(.63)
1	7.44	2.75	1.11	2.91	2.2
	(189)	(70)	(28)	(74)	(1.00)
1 1/4	8.62	3.25	1.18	3.15	3.0
	(219)	(83)	(30)	(80)	(1.36)
1 1/2	9.68	4.00	1.30	3.51	4.6
	(246)	(102)	(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

Class 125 Bronze Gate Valves

Fig.
B-103

Threaded Bonnet • Non-Rising Stem Solid Wedge Disc



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	Disc	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

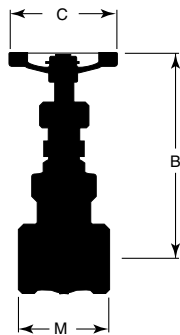
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-103, Threaded Ends

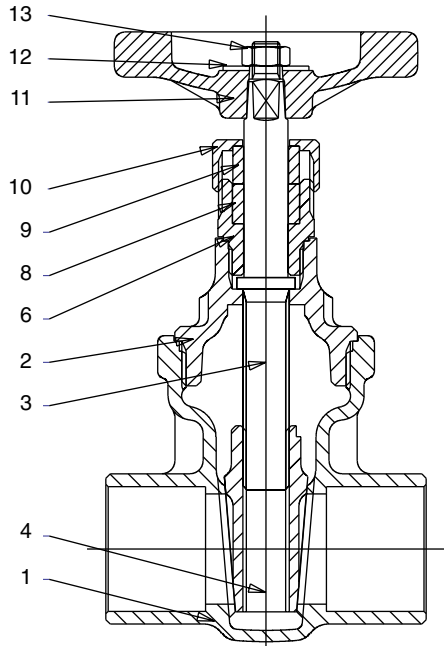


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	2.95	2.56	1.65	.5
	(75)	(65)	(42)	(.22)
3/8	2.95	2.56	1.65	.5
	(75)	(65)	(42)	(.22)
1/2	3.23	2.06	1.98	.8
	(82)	(52)	(51)	(.35)
3/4	3.74	2.56	2.14	1.2
	(95)	(65)	(55)	(.55)
1	4.64	2.75	2.46	1.8
	(118)	(70)	(63)	(.84)
1 1/4	5.67	3.06	2.77	2.6
	(144)	(79)	(71)	(1.18)
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)

Class 125 Bronze Gate Valves

Fig.
B-104

Threaded Bonnet • Non-Rising Stem Solid Wedge Disc



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
		(2 1/2" & 3")	Cu-Si Bronze
4	Disc	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
		(2 1/2" & 3")	Bronze
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 6 for Pressure Temperature Ratings

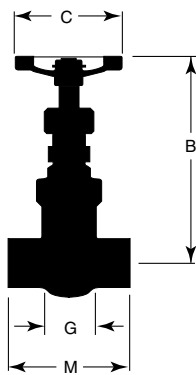
Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-104, Solder Ends

VALVE SIZE	DIMENSIONS				WT
	B	C	G*	M	
1/2	3.23	2.75	.92	1.90	.9
	(82)	(70)	(24)	(49)	(.31)
3/4	3.74	2.75	.95	2.44	1.4
	(95)	(70)	(24)	(62)	(.49)
1	4.64	2.75	1.11	2.91	2.1
	(118)	(70)	(28)	(74)	(.77)
1 1/4	5.67	3.25	1.18	3.15	2.8
	(144)	(83)	(30)	(80)	(1.08)
1 1/2	6.53	4.00	1.30	3.51	4.4
	(166)	(102)	(33)	(89)	(1.54)
2	7.36	4.00	1.49	4.17	6.5
	(187)	(102)	(38)	(106)	(2.45)
2 1/2	9.26	4.75	1.96	4.91	12.3
	(235)	(121)	(50)	(125)	(5.22)
3	9.89	5.50	2.19	5.50	18.3
	(251)	(140)	(56)	(140)	(7.39)

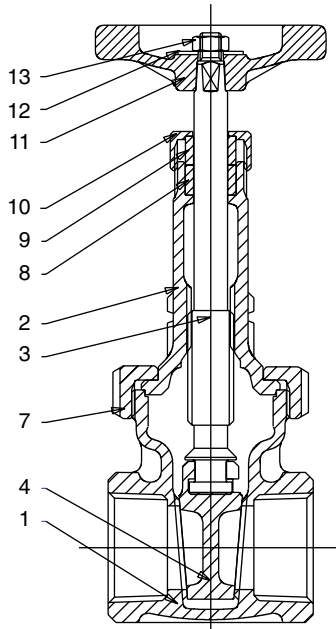
*Piping Make-Up Dimensions



Class 125 Bronze Gate Valves

Fig.
B-105

Union Bonnet • Rising Stem Solid Wedge Disc



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
		(2 1/2" & 3")	Cu-Si Bronze
4	Disc	Bronze	B-62 C83600
7	Union Ring	Brass	B-124 C37700
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2")	Brass
		(2 1/2" & 3")	Bronze
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

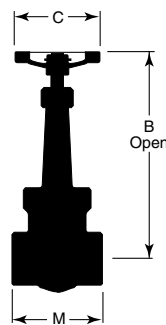
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-105, Threaded Ends

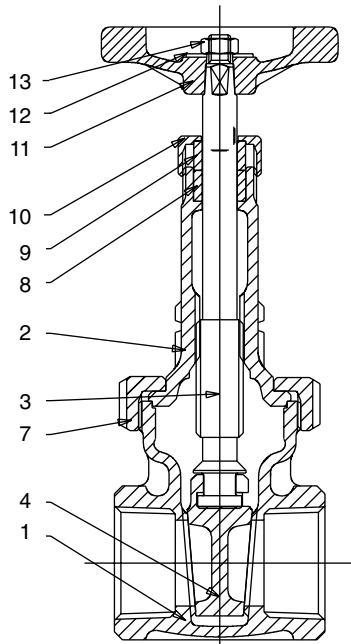


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(70)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(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)

Class 150 Bronze Gate Valves

Fig.
B-120

Rising Stem • Solid Wedge Disc



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	Disc	Bronze	B-62 C83600	
7	Union 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

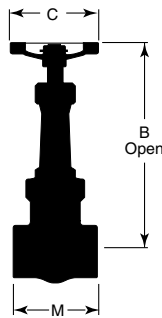
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-120, Union Bonnet, Threaded Ends

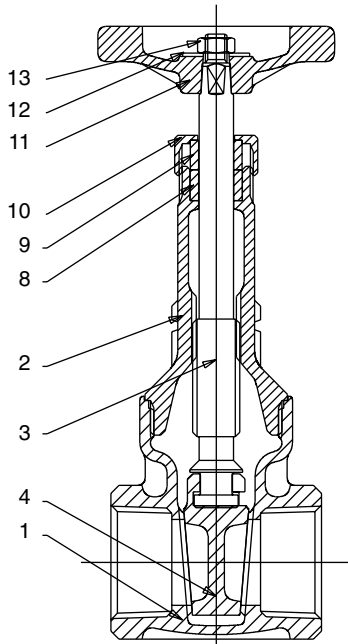


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(70)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(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)

Class 150 Bronze Gate Valves

Fig.
B-122

Rising Stem • Solid Wedge Disc



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	Disc		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

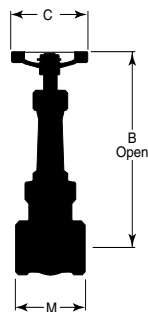
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-122, Threaded Bonnet, Threaded Ends

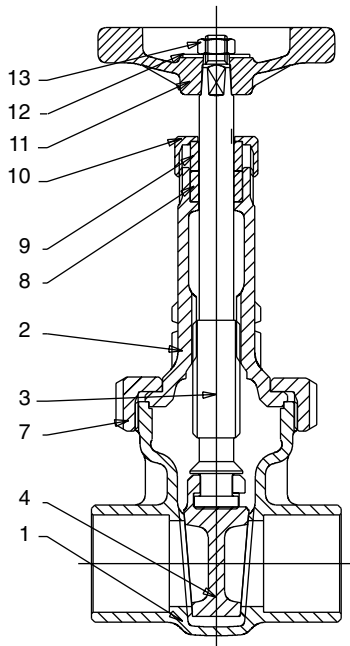


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.96	2.25	1.81	.7
	(126)	(57)	(46)	(.32)
3/8	4.96	2.25	1.81	.7
	(126)	(57)	(46)	(.32)
1/2	5.07	2.75	1.98	1.0
	(129)	(70)	(51)	(.48)
3/4	6.25	2.75	2.14	1.6
	(159)	(70)	(55)	(.72)
1	7.44	2.75	2.46	2.4
	(189)	(70)	(63)	(1.10)
1 1/4	8.62	3.25	2.77	3.3
	(219)	(83)	(71)	(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)

Class 150 Bronze Gate Valves

Fig.
B-124

Rising Stem • Solid Wedge Disc



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	Disc	Bronze	B-62 C83600	
7	Union Ring	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

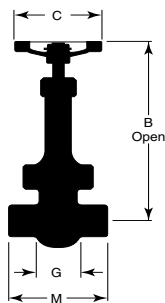
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-124, Union Bonnet, Solder Ends



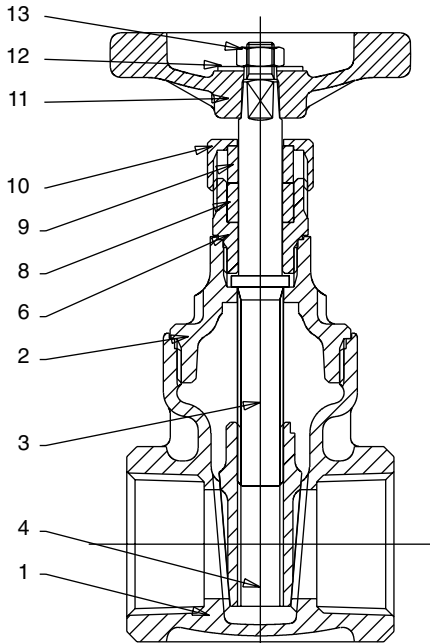
VALVE SIZE	DIMENSIONS				WT
	B	C	G*	M	
1/2	5.07	2.75	.92	1.90	.9
	(129)	(70)	(24)	(48)	(.41)
3/4	6.25	2.75	.95	2.40	1.4
	(159)	(70)	(24)	(61)	(.63)
1	7.44	2.75	1.11	2.91	2.2
	(189)	(70)	(28)	(74)	(1.00)
1 1/4	8.62	3.25	1.18	3.10	3.0
	(219)	(83)	(30)	(79)	(1.36)
1 1/2	9.68	4.00	1.30	3.49	4.6
	(246)	(102)	(33)	(89)	(2.08)
2	11.85	4.00	1.49	4.11	6.7
	(301)	(102)	(38)	(104)	(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

Class 150 Bronze Gate Valves

Fig.
B-128

Threaded Bonnet • Non Rising-Stem Solid Wedge Disc



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	Disc	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

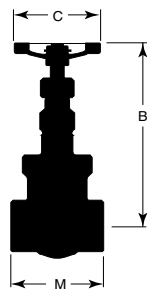
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-128, Threaded Ends

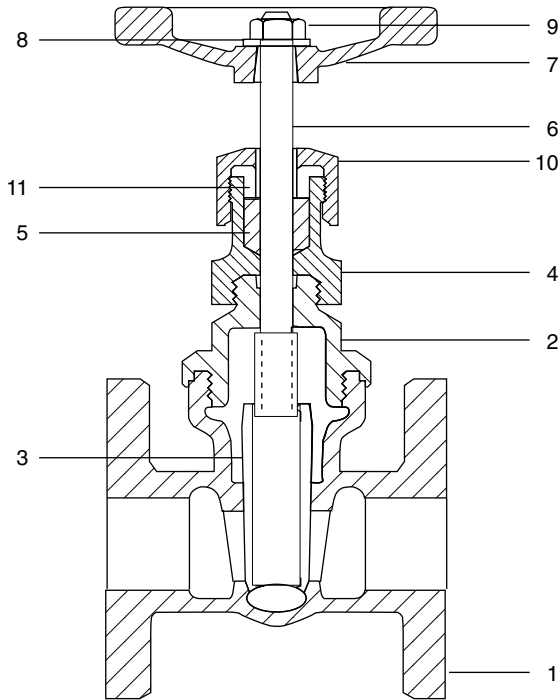


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	2.95	1.75	1.81	.6
	(75)	(45)	(46)	(.27)
3/8	2.95	1.75	1.81	.6
	(75)	(45)	(46)	(.26)
1/2	3.23	2.06	1.98	.8
	(82)	(52)	(51)	(.35)
3/4	3.74	2.56	2.14	1.2
	(95)	(65)	(55)	(.55)
1	4.64	2.75	2.46	1.8
	(118)	(70)	(63)	(.84)
1 1/4	5.67	3.06	2.77	2.6
	(144)	(79)	(71)	(1.18)
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)

Class 150 Bronze Gate Valves

Fig.
B-131

Threaded Bonnet • Non-Rising Stem Solid Wedge Disc



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Bonnet	Bronze	B-62 C83600
3	Disc	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

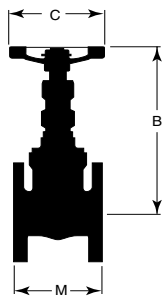
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-131, Flanged Ends

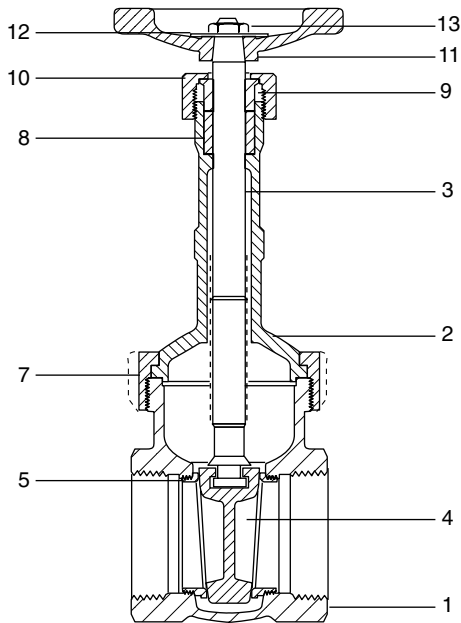


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1	4.88	2.56	3.94	5.70
	(116)	(65)	(100)	(2.6)
1¼	5.16	2.75	4.33	6.30
	(145)	(70)	(110)	(2.85)
1½	6.50	3.06	4.72	9.00
	(165)	(78)	(120)	(4.06)
2	7.44	3.63	5.32	12.20
	(189)	(92)	(135)	(5.51)
2½	9.13	4.06	6.50	18.50
	(232)	(103)	(165)	(8.36)
3	10.38	4.75	7.28	25.50
	(264)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

Class 200 Bronze Gate Valves

Fig.
B-132

Union Bonnet • Rising Stem Solid Wedge Disc • Stainless Steel Seats



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	Disc	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 (2 1/2" - 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 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

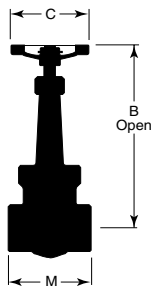
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-132, Threaded Ends

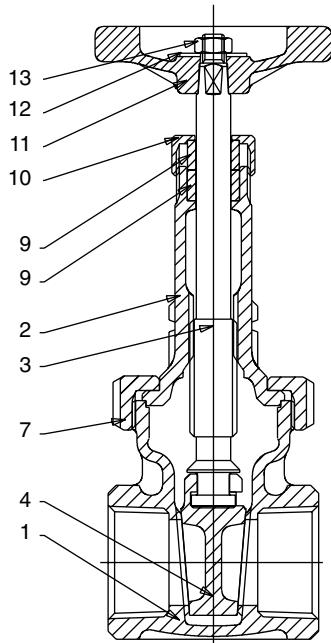


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.86	2.25	2.03	0.94
	(123)	(57)	(52)	(.43)
3/8	4.86	2.25	2.13	0.88
	(123)	(57)	(54)	(.40)
1/2	5.40	2.25	2.42	1.46
	(137)	(57)	(61)	(.66)
3/4	6.60	2.75	2.61	2.06
	(168)	(70)	(66)	(.94)
1	7.91	2.75	3.06	3.31
	(201)	(70)	(78)	(1.50)
1 1/4	9.32	3.25	3.35	5.06
	(237)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

Class 200 Bronze Gate Valves

Fig.
B-135

Union Bonnet • Rising Stem Solid Wedge Disc



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
		(2 1/2" & 3")	Cu-Si Bronze
4	Disc	Bronze	B-62 C83600
7	Union Ring	Bronze	B-61 C92200
8	Packing	Asbestos Free	
9	Packing Gland	Brass	B-16 C36000
10	Packing Nut	(1/4" - 2")	Brass
		(2 1/2" & 3")	Bronze
11	Handwheel	Malleable Iron	A-197 F22000
12	ID Plate	Aluminum	
13	Handwheel Nut	Brass	B-16 C36000

Industry Standards

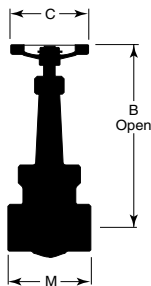
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-135, Threaded Ends

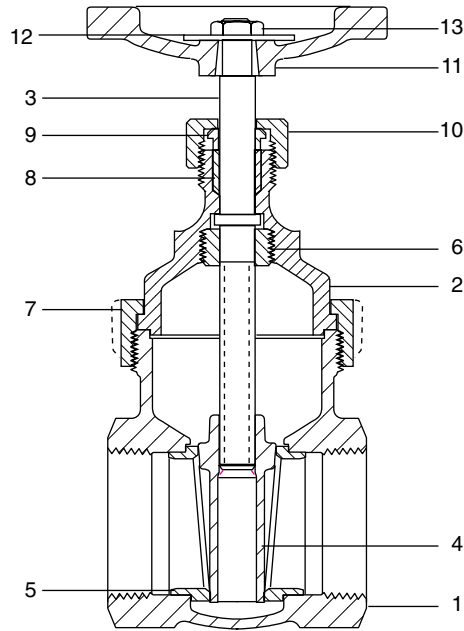


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
3/8	4.96	2.25	1.81	.9
	(126)	(57)	(46)	(.41)
1/2	5.07	2.75	1.98	1.5
	(129)	(57)	(51)	(.67)
3/4	6.25	2.75	2.14	2.3
	(159)	(70)	(55)	(1.03)
1	7.44	2.75	2.46	3.4
	(189)	(70)	(63)	(1.54)
1 1/4	8.62	3.25	2.77	5.1
	(219)	(83)	(71)	(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)

Class 200 Bronze Gate Valves

Fig.
B-140

**Union Bonnet • Non-Rising Stem
Solid Wedge Disc • Stainless Steel Seats**



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	Disc	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 (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 (2 1/2" - 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 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

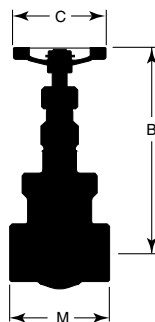
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-140, Threaded Ends

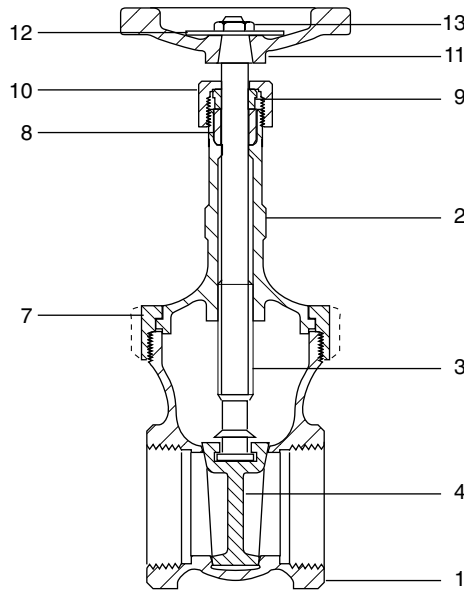


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	3.70	2.25	2.03	.83
	(94)	(57)	(52)	(.38)
3/8	3.70	2.25	2.13	.89
	(94)	(57)	(54)	(.40)
1/2	4.07	2.25	2.42	1.35
	(103)	(57)	(61)	(.61)
3/4	4.81	2.75	2.61	1.83
	(122)	(70)	(66)	(.83)
1	5.26	2.75	3.06	3.09
	(134)	(70)	(78)	(1.40)
1 1/4	6.18	3.25	3.35	4.91
	(157)	(83)	(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)
2 1/2	8.57	4.75	4.60	22.19
	(218)	(121)	(117)	(10.07)
3	10.37	7.00	5.62	34.00
	(263)	(178)	(143)	(15.44)

Class 300 Bronze Gate Valves

Fig.
B-144

Union Bonnet • Rising Stem Solid Wedge Disc



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	Disc	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

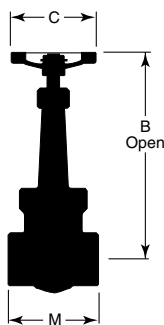
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-144, Threaded Ends

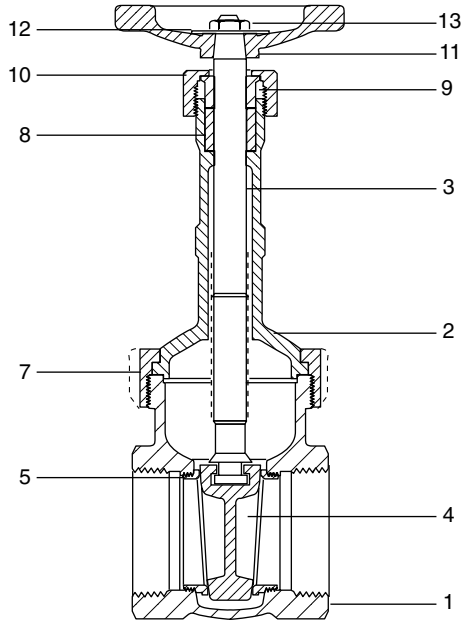


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.77	1.75	1.64	.7
	(121)	(44)	(42)	(.32)
3/8	4.77	1.75	1.64	.7
	(121)	(44)	(42)	(.32)
1/2	5.48	2.13	2.04	1.2
	(139)	(54)	(52)	(.50)
3/4	6.68	2.71	2.14	1.8
	(170)	(69)	(54)	(.80)
1	7.81	3.03	2.47	3.0
	(199)	(77)	(63)	(1.4)
1 1/4	9.26	3.03	3.08	4.0
	(235)	(77)	(78)	(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)

Class 300 Bronze Gate Valves

Fig.
B-145

Union Bonnet • Rising Stem Solid Wedge Disc • Stainless Steel Seats



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	Disc	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 (2 1/2" - 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 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

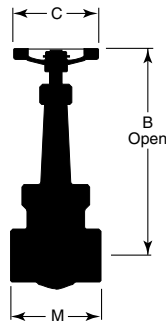
Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-145, Threaded Ends

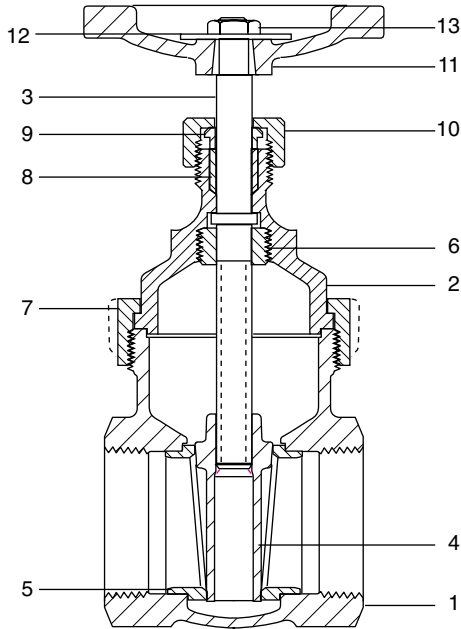


VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	4.86	2.25	2.03	0.85
	(123)	(57)	(52)	(.39)
3/8	4.86	2.25	2.13	0.94
	(123)	(57)	(54)	(.43)
1/2	5.40	2.25	2.42	1.44
	(137)	(57)	(61)	(.65)
3/4	6.60	2.75	2.61	2.06
	(168)	(70)	(66)	(.94)
1	7.91	2.75	3.06	3.34
	(201)	(70)	(78)	(1.52)
1 1/4	9.32	3.25	3.35	4.81
	(237)	(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)

Class 300 Bronze Gate Valves

Fig.
B-147

Union Bonnet • Non-Rising Stem Solid Wedge Disc • Stainless Steel Seats



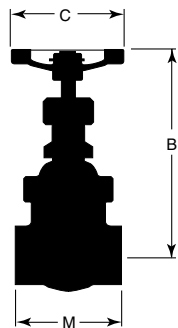
Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
2	Bonnet	Bronze	B-61 C92200
3	Stem	Bronze	B-371 C69400
4	Disc	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 (1/4" - 2")	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 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

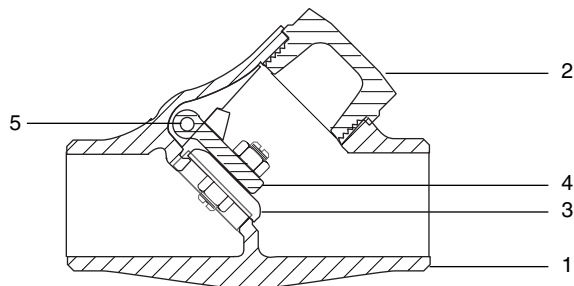
B-147, Threaded Ends

VALVE SIZE	DIMENSIONS			WT
	B	C	M	
1/4	3.70	2.25	2.03	0.79
	(94)	(57)	(52)	(.036)
3/8	3.70	2.25	2.13	0.88
	(94)	(57)	(54)	(0.40)
1/2	4.07	2.25	2.42	1.31
	(103)	(57)	(61)	(0.60)
3/4	4.81	2.75	2.61	1.84
	(122)	(70)	(66)	(0.84)
1	5.26	2.75	3.06	3.09
	(134)	(70)	(78)	(1.40)
1 1/4	6.18	3.25	3.35	4.72
	(157)	(83)	(85)	(2.14)
1 1/2	7.05	4.00	3.69	5.88
	(179)	(102)	(94)	(2.67)
2	7.93	4.00	3.96	10.25
	(201)	(102)	(101)	(4.65)

Class 125 Bronze Swing Check Valves

Fig.
B-310BY

Threaded Cap • “Y”- Pattern • Viton Disc



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

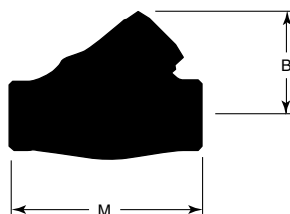
Complies with MSS-SP-80 Type 4

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-310BY, Solder Ends

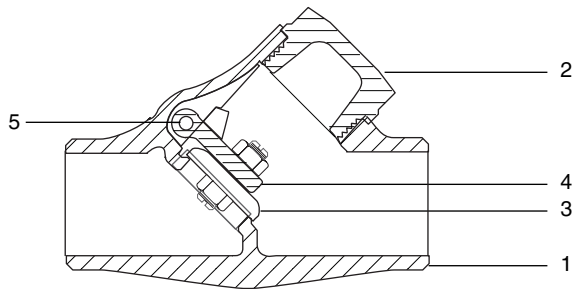


VALVE SIZE	DIMENSIONS		WT
	B	M	
½	1.63	2.69	0.60
	(41)	(68)	(0.27)
¾	2.00	3.63	1.00
	(52)	(92)	(0.45)
1	2.50	4.25	1.50
	(62)	(108)	(0.68)
1 ¼	3.00	4.81	2.20
	(73)	(122)	(1.00)
1 ½	3.50	5.56	3.30
	(86)	(141)	(1.50)
2	4.00	6.87	5.40
	(106)	(174)	(2.45)

Class 125 Bronze Swing Check Valves

Fig.
B-310TY

Threaded Cap • “Y”- Pattern • PTFE Disc



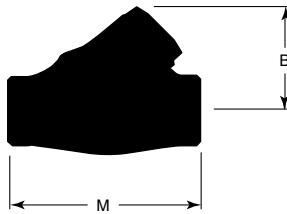
Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
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 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

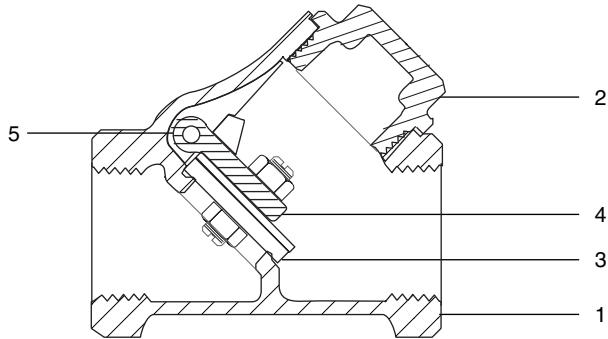
B-310TY, Solder Ends

VALVE SIZE	DIMENSIONS		WT
	B	M	
½	1.63	2.69	0.60
	(41)	(68)	(0.27)
¾	2.00	3.63	1.00
	(52)	(92)	(0.45)
1	2.50	4.25	1.50
	(62)	(108)	(0.68)
1 ¼	3.00	4.81	2.20
	(73)	(122)	(1.00)
1 ½	3.50	5.56	3.30
	(86)	(141)	(1.50)
2	4.00	6.87	5.40
	(106)	(174)	(2.45)

Class 125 Bronze Swing Check Valves

Fig.
B-320BY

Threaded Cap • “Y”- Pattern • Viton Disc



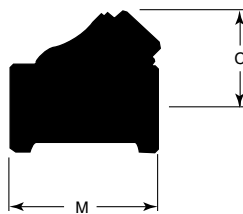
Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
4	Disc	Viton	
5	Hinge	Bronze	B-584 C87600
6	Hinge Pin	Stainless Steel	A-276 Type 304

Industry Standards

Complies with MSS-SP-80 Type 4

See page 6 for Pressure Temperature Ratings



Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

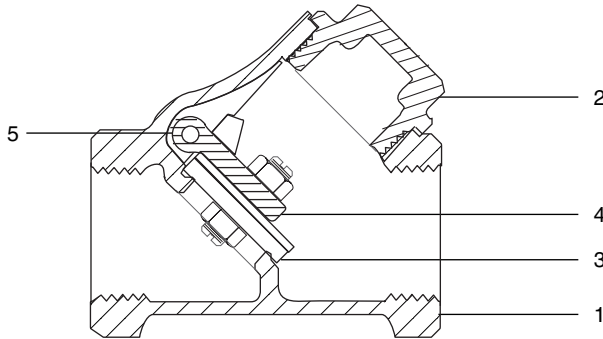
B-320BY, Threaded Ends

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)

Class 125 Bronze Swing Check Valves

Fig.
B-320TY

Threaded Cap • “Y”- Pattern • PTFE Disc



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Cap	Bronze	B-62 C83600
4	Disc	PTFE	
5	Hinge	Bronze	B-584 C87600
6	Hinge Pin	Stainless Steel	A-276 Type 304

Industry Standards

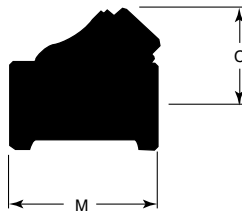
Complies with MSS-SP-80 Type 4

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-320TY, Threaded Ends

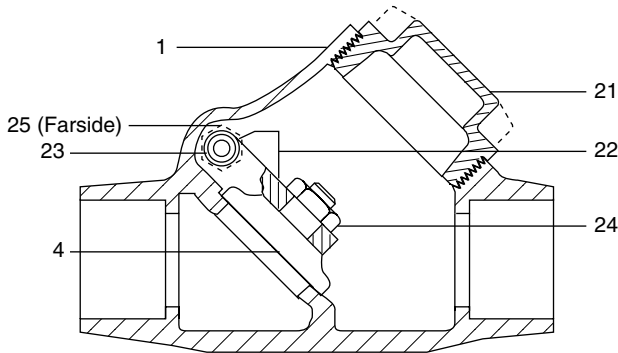


VALVE SIZE	DIMENSIONS		WT
	M	C	
½	2.15	1.59	0.60
	(55)	(40)	(0.27)
¾	2.71	1.97	1.00
	(69)	(50)	(0.45)
1	3.18	2.43	1.60
	(81)	(62)	(0.72)
1 ¼	3.81	3.00	2.60
	(97)	(76)	(1.17)
1 ½	4.34	3.50	3.50
	(195)	(89)	(1.58)
2	5.13	4.00	5.30
	(130)	(102)	(2.39)

Class 125 Bronze Swing Check Valves

Fig.
B-309Y

Threaded Cap • “Y”- Pattern



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
4	Disc	(1/2" - 3/4")	Brass	B-16 H02
		(1" - 3")	Bronze	B-62 C83600
21	Cap	Bronze	B-61 C92200	
22	Hinge	Bronze	B-584 C87600	
23	Hinge Pin	Stainless Steel	A-276 Type 304	
24	Hinge Nut	Brass	B-16 H02	
25	Hinge Pin Plug	Brass	B-16 H02	

Industry Standards

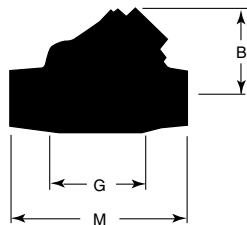
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-309Y, Solder Ends

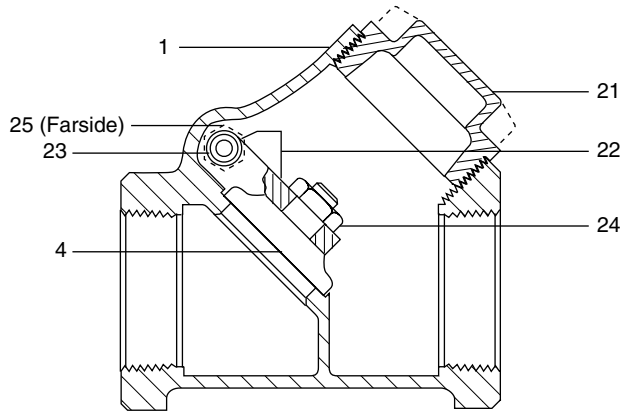


VALVE SIZE	DIMENSIONS			WT
	B	G	M	
1/2	1.63	1.63	2.69	0.60
	(41)	(41)	(68)	(.27)
3/4	2.00	2.06	3.63	1.00
	(51)	(52)	(92)	(.45)
1	2.50	2.44	4.25	1.50
	(62)	(62)	(108)	(.68)
1 1/4	3.00	2.88	4.81	2.20
	(76)	(73)	(122)	(1.0)
1 1/2	3.50	3.38	5.56	3.30
	(89)	(86)	(141)	(1.5)
2	4.00	4.19	6.87	5.40
	(102)	(106)	(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)

Class 125 Bronze Swing Check Valves

Fig.
B-319Y

Threaded End Cap • “Y”- Pattern



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
4	Disc	(1/4" - 3/4")	B-16 H02
		(1" - 3")	B-62 C83600
21	Cap	Bronze	B-62 C83600
22	Hinge	Bronze	B-584 C87600
23	Hinge Pin	Stainless Steel	A-276 Type 304
24	Hinge Nut	Brass	B-16 H02
25	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

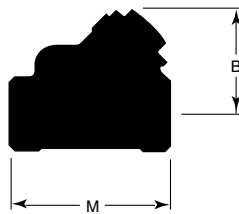
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-319Y, Threaded Ends

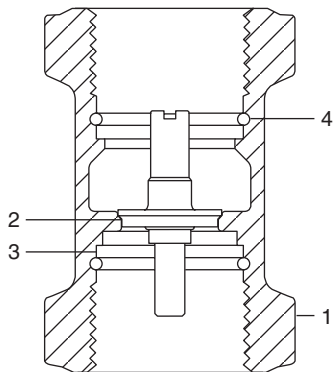


VALVE SIZE	DIMENSIONS		WT
	B	M	
1/4	1.50	1.94	.50
	(38)	(49)	(.23)
3/8	1.50	1.94	.50
	(38)	(49)	(.23)
1/2	1.59	2.15	.60
	(40)	(55)	(.27)
3/4	1.97	2.71	1.00
	(50)	(69)	(.45)
1	2.43	3.18	1.50
	(62)	(81)	(.68)
1 1/4	3.00	3.81	2.20
	(76)	(97)	(1.00)
1 1/2	3.50	4.34	3.40
	(89)	(110)	(1.55)
2	4.00	5.13	5.40
	(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)

Class 125 Bronze Lift Check Valves

Fig.
B-314

Threaded Cap • Vertical Pattern



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Disc	(1/4" - 1/2")	B-16 C36000 H02
		(3/4")	B-505 C83600
		(1" - 3")	B-62 C83600
3	Disc Guide	Brass	B-36 C26000 H04
4	Retaining Ring	Brass	B-134 C26000

Industry Standards

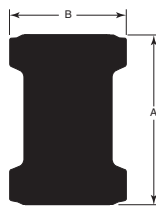
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-314, Threaded Ends

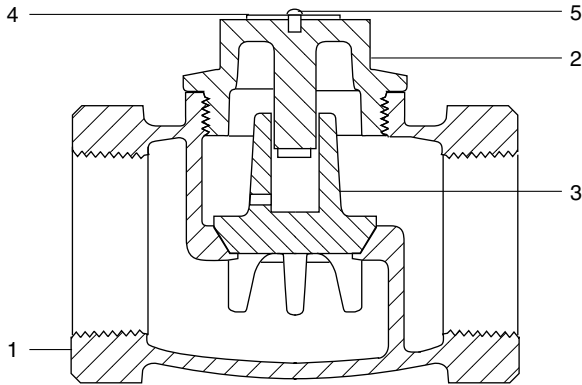


VALVE SIZE	DIMENSIONS		WT
	A	B	
1/4	1.95	1.09	.30
	(50)	(28)	(.14)
3/8	1.95	1.09	.40
	(50)	(28)	(.18)
1/2	2.15	1.29	.60
	(55)	(33)	(.27)
3/4	2.32	1.57	.80
	(59)	(40)	(.36)
1	2.92	1.92	1.40
	(74)	(49)	(.64)
1 1/4	3.28	2.40	2.10
	(83)	(61)	(.95)
1 1/2	3.58	2.63	2.80
	(91)	(67)	(1.27)
2	4.00	3.30	4.80
	(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)

Class 125 Bronze Lift Check Valves

Fig.
B-316

Threaded Cap • Horizontal Pattern



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
2	Cap	($\frac{1}{2}$ "	Brass	B-124 C67500
		($\frac{3}{4}$ "- 2")	Bronze	B-62 C83600
3	Disc	($\frac{1}{2}$ "	Brass	B-124 C67500
		($\frac{3}{4}$ "- 2")	Bronze	B-62 C83600
4	ID Plate	Aluminum		
5	Drive Screw	Steel	Electro Brassed	

Industry Standards

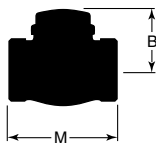
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-316, Threaded Ends

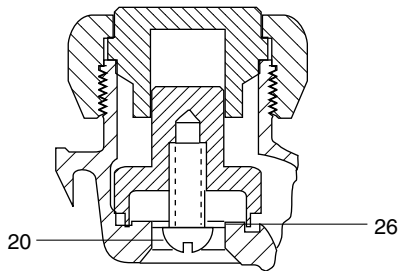
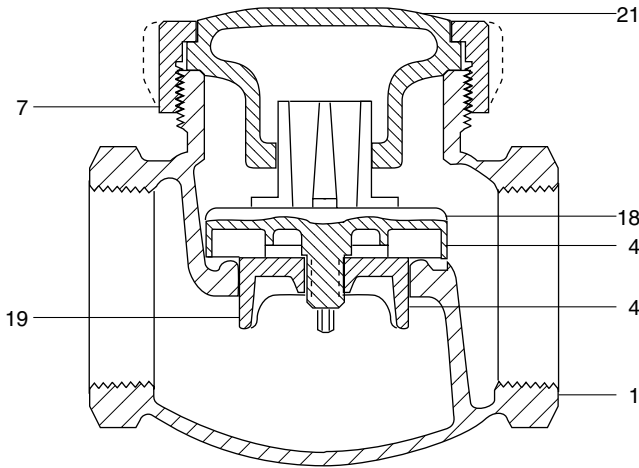


VALVE SIZE	DIMENSIONS		WT
	M	B	
$\frac{1}{2}$	2.16	1.29	.53
	(55)	(33)	(.24)
$\frac{3}{4}$	2.48	1.29	.77
	(63)	(33)	(.35)
1	3.03	1.54	1.32
	(77)	(39)	(.60)
1 $\frac{1}{4}$	3.58	1.85	2.14
	(91)	(47)	(.97)
1 $\frac{1}{2}$	3.86	2.13	2.78
	(98)	(54)	(1.26)
2	4.65	2.56	4.61
	(118)	(65)	(2.09)

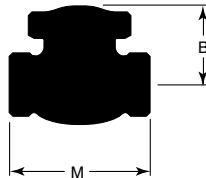
Class 150 Bronze Lift Check Valves

Fig.
B-322B

Union Cap • Buna-N Disc Horizontal Pattern



1/4" - 3/8"
6-10 mm



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 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-322B, Threaded Ends

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)

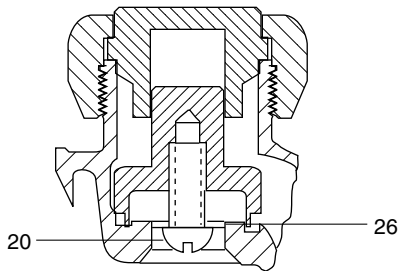
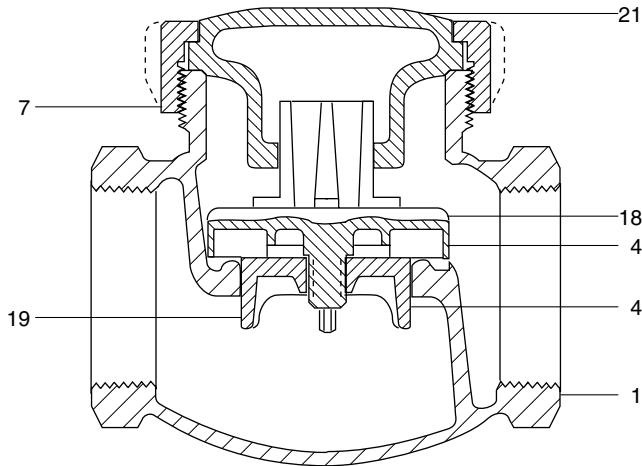
Class 150 Bronze Lift Check Valves

Fig.
B-322T

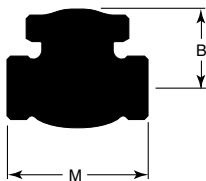
Union Cap • PTFE Disc Horizontal Pattern

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	



1/4" - 3/8"
6-10 mm



Industry Standards

Complies with MSS-SP-80 Type 2

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

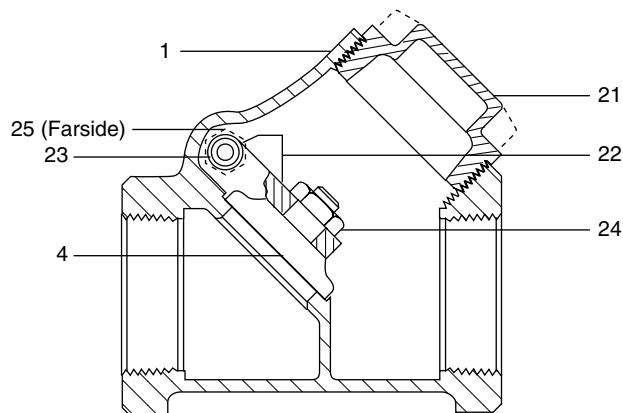
B-322T, Threaded Ends

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)

Class 150 Bronze Swing Check Valves

Fig.
B-321

Threaded Cap • Y-Pattern Regrinding Seat



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
4	Disc	(1/4" - 3/4")	B-16 H02
		(1" - 3")	B-62 C83600
21	Cap	Bronze	B-62 C83600
22	Hinge	Bronze	B-584 C87600
23	Hinge Pin	Stainless Steel	A-276 Type 304
24	Hinge Nut	Brass	B-16 H02
25	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

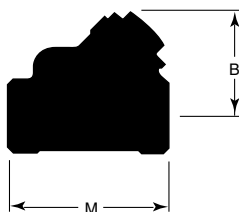
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-321, Threaded Ends

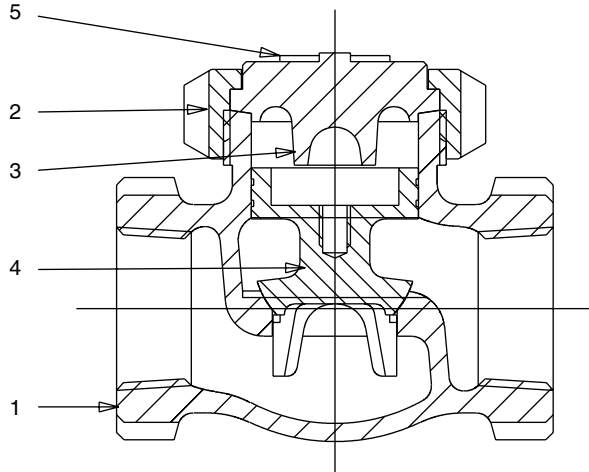


VALVE SIZE	DIMENSIONS		WT
	B	M	
1/4	1.50	1.94	.50
	(38)	(49)	(.23)
3/8	1.50	1.94	.50
	(38)	(49)	(.23)
1/2	1.59	2.15	.60
	(40)	(55)	(.27)
3/4	1.97	2.71	1.00
	(50)	(69)	(.45)
1	2.43	3.18	1.50
	(62)	(81)	(.68)
1 1/4	3.00	3.81	2.20
	(76)	(97)	(1.00)
1 1/2	3.50	4.34	3.40
	(89)	(110)	(1.55)
2	4.00	5.13	5.40
	(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)

Class 200 Bronze Lift Check Valves

Fig.
B-337

Union Cap • Horizontal Pattern



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

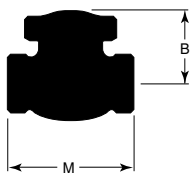
See page 6 for Pressure Temperature Ratings
Maximum Temperature 450°F

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-337, Threaded Ends

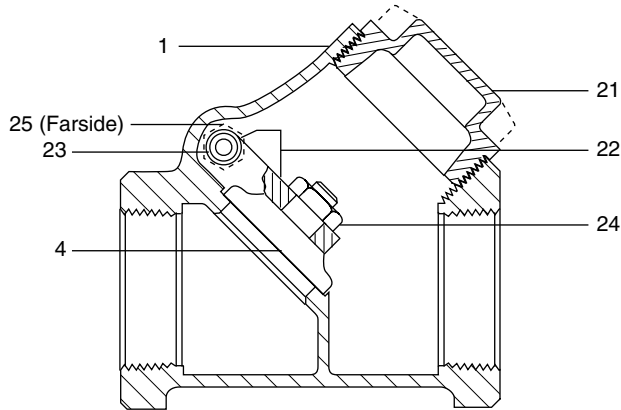
VALVE SIZE	DIMENSIONS		WT
	B	M	
1/2	1.46	2.56	1.0
	(37)	(65)	(.47)
3/4	1.85	2.95	1.7
	(47)	(75)	(.77)
1	2.05	3.50	2.7
	(52)	(89)	(1.21)
1 1/4	2.36	4.06	4.1
	(60)	(103)	(1.85)
1 1/2	2.64	4.61	5.9
	(67)	(117)	(2.65)
2	3.23	5.75	10.0
	(82)	(146)	(4.56)



Class 200 Bronze Swing Check Valves

Fig.
B-345

Threaded Cap • Y-Pattern Regrinding Seat



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
4	Disc	(1/4" - 3/4")	B-16 H02
		(1" - 3")	B-61 C92200
21	Cap	Bronze	B-61 C92200
22	Hinge	Bronze	B-584 C87600
23	Hinge Pin	(1/4" - 3")	Stainless Steel
24	Hinge Nut		Brass
25	Hinge Pin Plug		Brass

Industry Standards

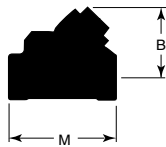
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-345, Threaded Ends

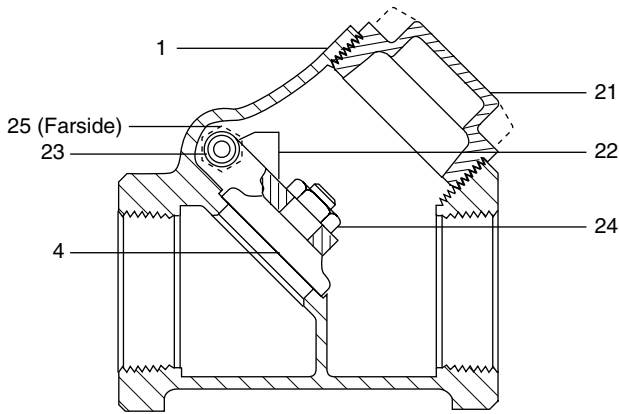


VALVE SIZE	DIMENSIONS		WT
	B	M	
1/4	1.50	2.14	.54
	(38)	(54)	(.25)
3/8	1.50	2.14	.52
	(38)	(54)	(.24)
1/2	1.76	2.15	.75
	(45)	(55)	(.34)
3/4	2.00	2.71	1.40
	(51)	(69)	(.64)
1	2.50	3.18	2.10
	(63)	(81)	(.95)
1 1/4	3.00	3.81	3.90
	(76)	(97)	(1.77)
1 1/2	3.50	4.34	4.40
	(89)	(110)	(2.00)
2	4.00	5.11	7.00
	(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)

Class 300 Bronze Swing Check Valves

Fig.
B-375

Threaded Cap • Y Pattern Regrinding Seat



Materials of Construction

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-61 C92200
4	Disc	(1/4" - 3/4")	B-16 H02
		(1" - 3")	B-61 C92200
21	Cap	Bronze	B-61 C92200
22	Hinge	Bronze	B-584 C87600
23	Hinge Pin	(1/4" - 2")	B-150 C64200
		(2 1/2" - 3")	A-276 C304
24	Hinge Nut	Brass	B-16 H02
25	Hinge Pin Plug	Brass	B-16 H02

Industry Standards

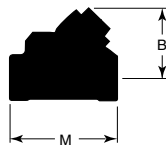
Complies with MSS-SP-80 Type 3

See page 6 for Pressure Temperature Ratings

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-375, Threaded Ends

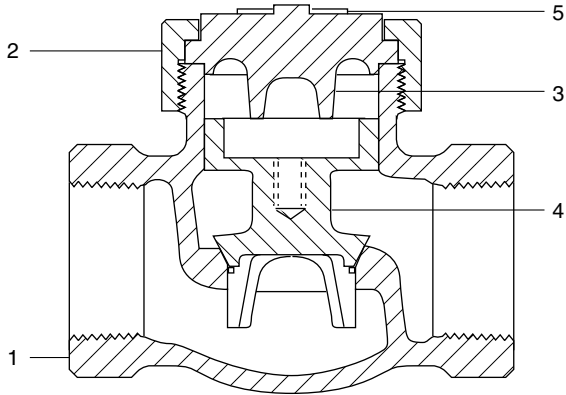


VALVE SIZE	DIMENSIONS		WT
	B	M	
1/4	1.50	2.14	.63
	(38)	(54)	(.27)
3/8	1.50	2.14	.58
	(38)	(54)	(.26)
1/2	1.76	2.15	.96
	(45)	(55)	(.44)
3/4	2.00	2.71	1.53
	(51)	(69)	(.70)
1	2.50	3.44	2.56
	(63)	(87)	(1.16)
1 1/4	3.20	4.06	3.81
	(81)	(103)	(1.73)
1 1/2	3.73	4.59	6.06
	(95)	(117)	(2.75)
2	4.20	5.36	11.13
	(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)

Class 300 Bronze Lift Check Valves

Fig.
B-367

Union Cap • Horizontal Pattern



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

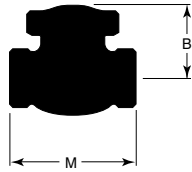
Complies with MSS-SP-80 Type 1

See page 6 for Pressure Temperature Ratings
Maximum Temperature 450°F

Dimensions and Weights

Inches (millimeters) - Pounds (kilograms)

B-367, Threaded Ends



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

Commerical Line Bronze Valves

General Information	59-60
Globe Valves	
Class 125	61-64
Gate Valves	
Class 125	65-68
Swing Valves	
Class 125	69-72

Bronze Valves

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 the building trades 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:

Press. Class	PRESSURE-PSI					
	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 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-ANSI 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.

Bronze Valves

Class 125 Gate, Globe and Swing Check Valves

Body—Threaded pipe ends conform to ANSI/ASME B1.20.1. Solder ends comply with the ANSI 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)

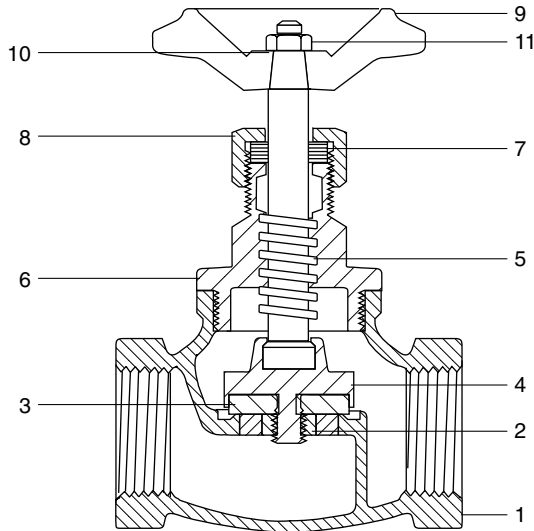
SIZE	GATE	GLOBE	SWING CHECK
		Std.	Std.
1/8	4.66	0.71	3.41
1/4	8.52	1.31	1.70
3/8	15.64	2.40	6.25
1/2	24.89	3.82	9.96
3/4	45.40	6.96	18.16
1	76.70	11.77	30.68
1-1/4	135.73	20.82	54.29
1-1/2	189.09	29.01	75.64
2	327.67	50.26	131.07
2-1/2	480.32	73.68	192.13
3	741.65	113.76	296.66

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

Class 125 Bronze Globe Valves

Fig.
B-13TC

Inside Screw • Rising Stem • PTFE Disc



Materials of Construction

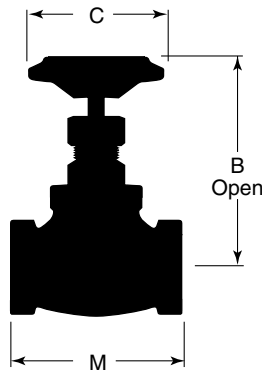
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
3	Disc	PTFE	
4	Disc Holder	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel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

Complies with MSS-SP-80, Type 2

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

B-13TC, Threaded End

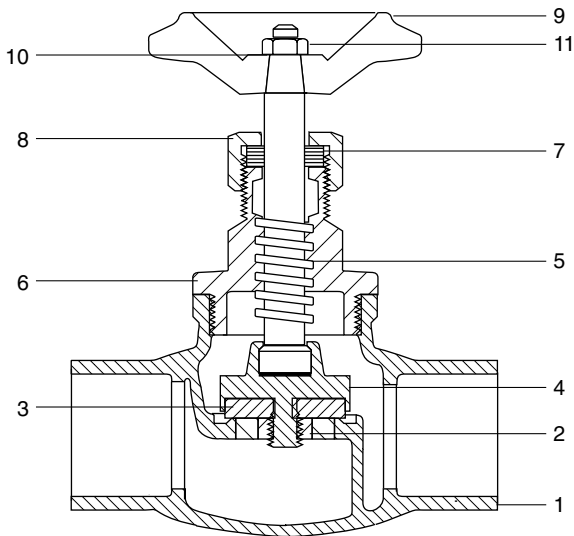


VALVE SIZE	DIMENSIONS			WT
	M	B	C	
3/8	1.87	3.62	2.56	0.70
	(48)	(92)	(65)	(.32)
1/2	2.28	3.62	2.56	0.96
	(58)	(92)	(65)	(.43)
3/4	2.83	4.25	2.56	1.43
	(72)	(108)	(65)	(.65)
1	3.46	4.65	2.76	2.15
	(88)	(118)	(70)	(.98)
1 1/4	4.01	5.39	3.27	3.20
	(102)	(137)	(83)	(1.45)
1 1/2	4.53	6.38	3.66	4.18
	(115)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

Class 125 Bronze Globe Valves

Fig.
B-14TC

Inside Screw • Rising Stem • PTFE Disc



Materials of Construction

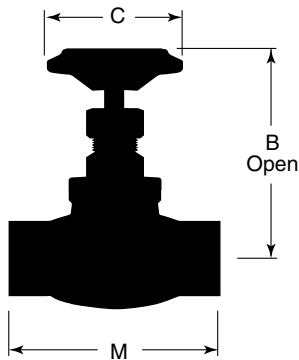
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Lock Nut	Brass	B-16 C36000
3	Disc	PTFE	
4	Disc Holder	Brass	B-124 C37700
5	Stem	Brass	B-21 C48200
6	Bonnet	Brass	B-124 C37700
7	Stem Packing	PTFE	
8	Packing Nut	Brass	B-16 C36000
9	Handwheel	Cast Iron	A-126
10	Name Plate	Aluminum	
11	Handwheel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

Complies with MSS-SP-80, Type 2

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

B-14TC, Solder End

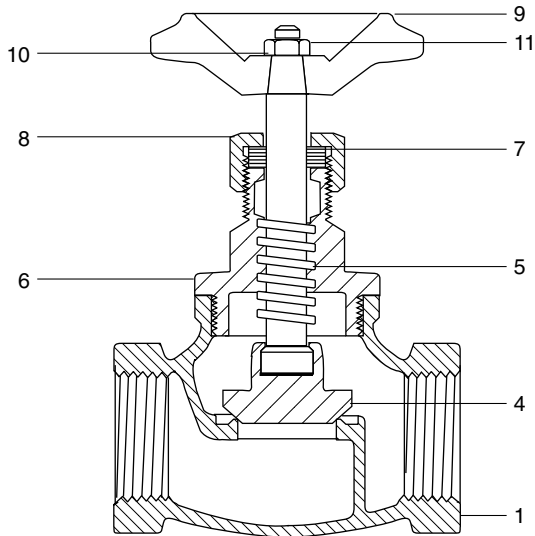


VALVE SIZE	DIMENSIONS			WT
	M	B	C	
½	2.87	3.62	2.56	0.88
	(73)	(92)	(65)	(.28)
¾	3.62	4.25	2.56	1.36
	(92)	(108)	(65)	(.62)
1	4.37	4.65	2.76	2.15
	(111)	(118)	(70)	(.98)
1¼	5.12	5.39	3.27	3.25
	(130)	(137)	(83)	(1.48)
1½	5.79	6.38	3.66	4.30
	(147)	(162)	(93)	(1.95)
2	7.08	6.53	4.41	4.30
	(180)	(166)	(112)	(1.95)

Class 125 Bronze Globe Valves

Fig.
B-16C

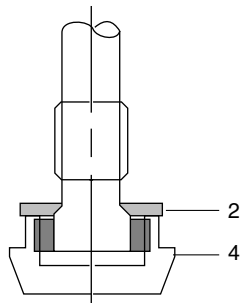
Inside Screw • Rising Stem • Brass Disc



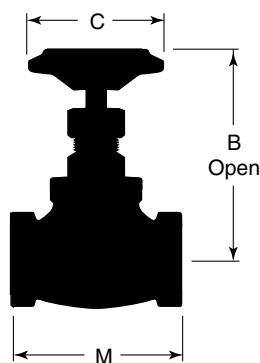
Materials of Construction

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



1-1/4" - 2"



Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

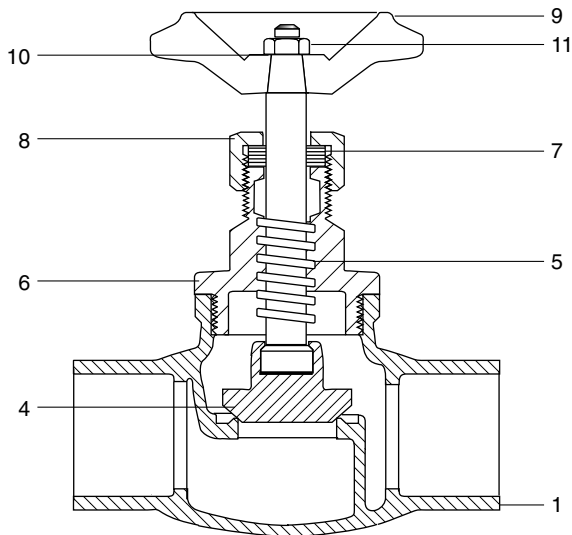
B-16C, Threaded End

VALVE SIZE	DIMENSIONS			WT
	M	B	C	
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)

Class 125 Bronze Globe Valves

Fig.
B-17C

Inside Screw • Rising Stem • Brass Disc



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

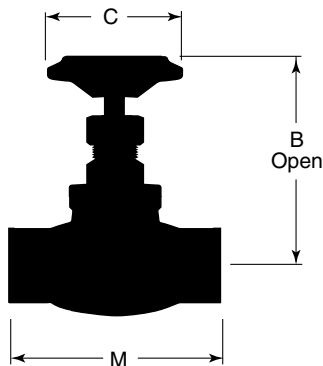
Complies with MSS-SP-80, Type 1

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

B-17C, Solder End

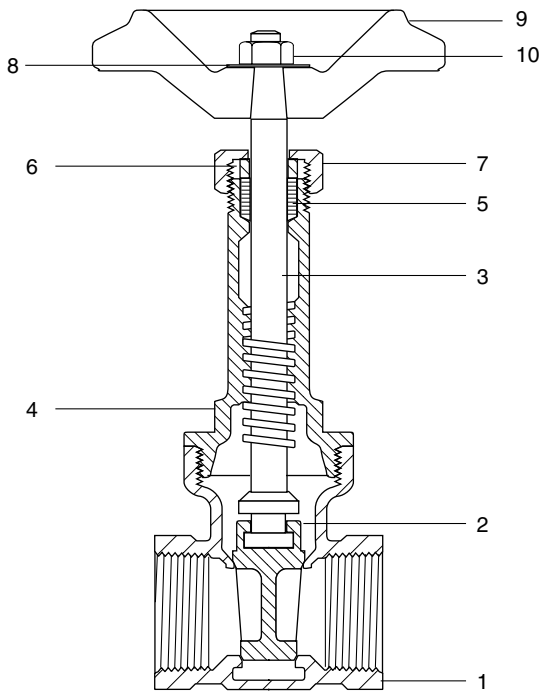
VALVE SIZE	DIMENSIONS			WT
	M	B	C	
½	2.87	3.62	2.56	0.88
	(73)	(92)	(65)	(.28)
¾	3.62	4.25	2.56	1.36
	(92)	(108)	(65)	(.62)
1	4.37	4.65	2.76	2.15
	(111)	(118)	(70)	(.98)
1¼	5.12	5.39	3.27	3.25
	(130)	(137)	(83)	(1.48)
1½	5.79	6.38	3.66	4.30
	(147)	(162)	(93)	(1.95)
2	7.08	6.53	4.41	4.30
	(180)	(166)	(112)	(1.95)



Class 125 Bronze Gate Valves

Fig.
B-100C

Inside Screw • Rising Stem • Solid Disc



Materials of Construction

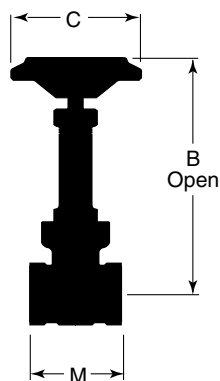
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Packing	PTFE OR PTFE and Neoprene LK 35NAF	
6	Packing Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000 or B-124 C37700 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)

B-100C, Threaded End

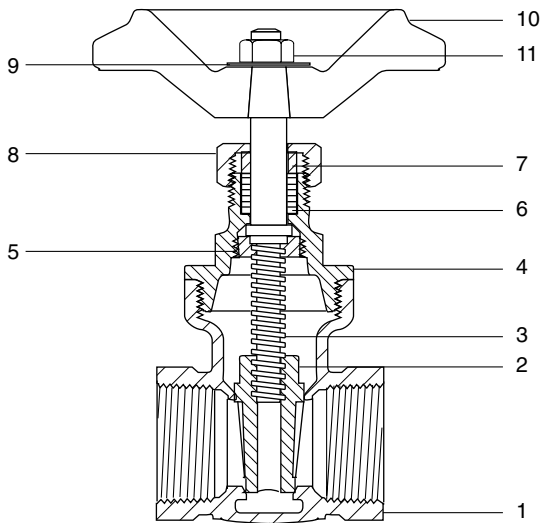


VALVE SIZE	DIMENSIONS			WT
	C	B	M	
1/4	2.13	4.92	1.65	0.50
	(54)	(125)	(42)	(.22)
3/8	2.13	4.92	1.65	0.50
	(54)	(125)	(42)	(.22)
1/2	2.13	4.98	1.97	0.80
	(54)	(126)	(50)	(.36)
3/4	2.40	5.69	2.00	1.10
	(61)	(145)	(51)	(.50)
1	3.03	7.21	2.36	1.80
	(77)	(183)	(60)	(.81)
1 1/4	3.03	8.11	2.68	2.40
	(77)	(206)	(68)	(1.08)
1 1/2	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)
2 1/2	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)

Class 125 Bronze Gate Valves

Fig.
B-103C

Inside Screw • Non-Rising Stem



Materials of Construction

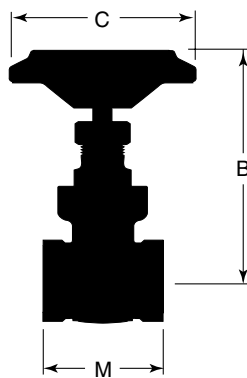
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Lock Nut	Brass	B-16 C36000
6	Packing	PTFE OR PTFE and Neoprene LK 35NAF	
7	Packing Gland	Brass	B-16 C36000
8	Packing Nut	Brass	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)

B-103C, Threaded End

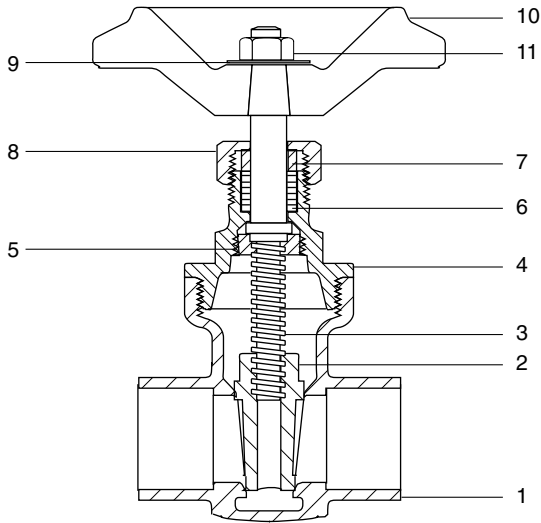


VALVE SIZE	DIMENSIONS			WT
	C	B	M	
1/4	2.56	2.95	1.65	0.50
	(65)	(75)	(42)	(.22)
3/8	2.56	2.95	1.65	0.50
	(65)	(75)	(42)	(.22)
1/2	2.56	3.03	1.97	0.70
	(65)	(77)	(50)	(.32)
3/4	2.56	3.50	2.00	1.00
	(65)	(91)	(51)	(.45)
1	2.75	4.21	2.36	1.50
	(70)	(107)	(60)	(.68)
1 1/4	3.27	4.68	2.68	2.10
	(83)	(119)	(68)	(.94)
1 1/2	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)
2 1/2	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)

Class 125 Bronze Gate Valves

Fig.
B-104C

Inside Screw • Non-Rising Stem



Materials of Construction

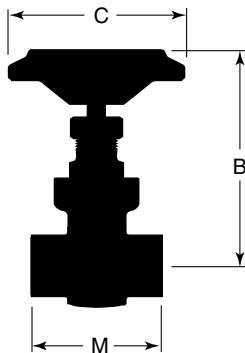
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Lock Nut	Brass	B-16 C36000
6	Packing	PTFE OR PTFE and Neoprene LK 35NAF	
7	Packing Gland	Brass	B-16 C36000
8	Packing Nut	Brass	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)

B-104C, Solder End

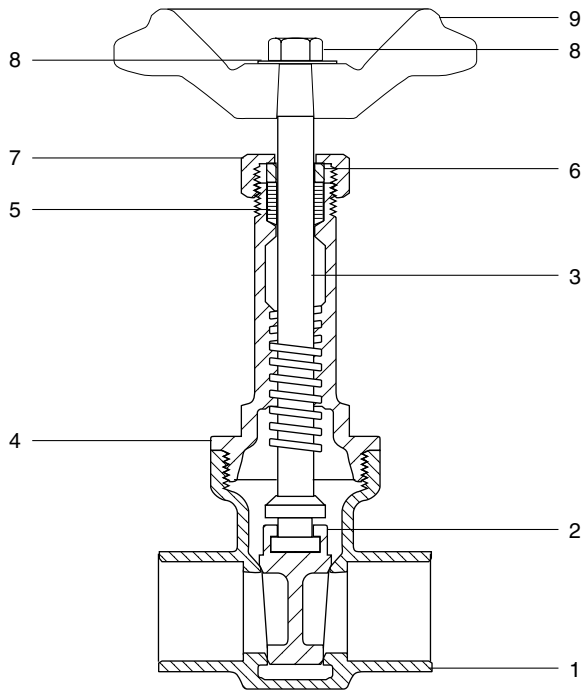


VALVE SIZE	DIMENSIONS			WT
	C	B	M	
3/8	2.56	2.95	1.57	0.50
	(65)	(75)	(40)	(.22)
1/2	2.56	3.03	1.89	0.70
	(65)	(77)	(48)	(.32)
3/4	2.56	3.50	2.36	1.00
	(65)	(91)	(60)	(.45)
1	2.75	4.21	2.79	1.50
	(70)	(107)	(71)	(.68)
1 1/4	3.27	4.68	3.15	2.10
	(83)	(119)	(80)	(.94)
1 1/2	3.27	5.47	3.46	2.70
	(83)	(139)	(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)

Class 125 Bronze Gate Valves

Fig.
B-108C

Inside Screw • Rising Stem • Solid Disc



Materials of Construction

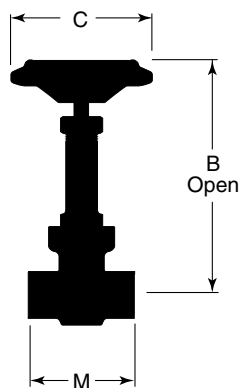
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Bronze	B-62 C83600
2	Disc	Bronze	B-62 C83600
3	Stem	Bronze	B-62 C83600 or B-21 C48200
4	Bonnet	Bronze	B-62 C83600 or B-124 C37700
5	Packing	PTFE or PTFE and Neoprene LK 35NAF	
6	Packing Gland	Brass	B-16 C36000
7	Packing Nut	Brass	B-16 C36000 or B-124 C37700 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)

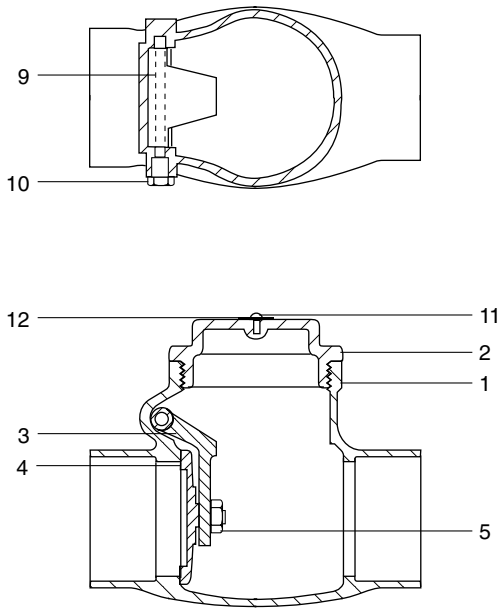
B-108C, Solder End



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

Class 125 Bronze Swing Check Valves

Fig.
B-309C



Materials of Construction

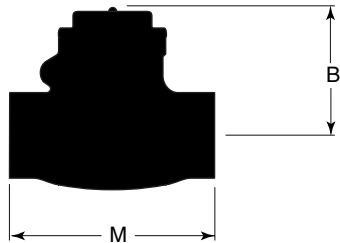
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
2	Cap	Bronze	B-62 C83600	
3	Hinge	Bronze	B-62 C83600	
4	Disc	3/8 - 1	Brass	B-16 C36000
		1 1/4 - 3	Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000	
9	Pin	Brass	B-16 C36000	
10	Screw	Brass	B-16 C36000	
11	Drive Pin	Mild Steel		
12	Name Plate	Aluminum		

Complies with MSS-SP-80, Type 3

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

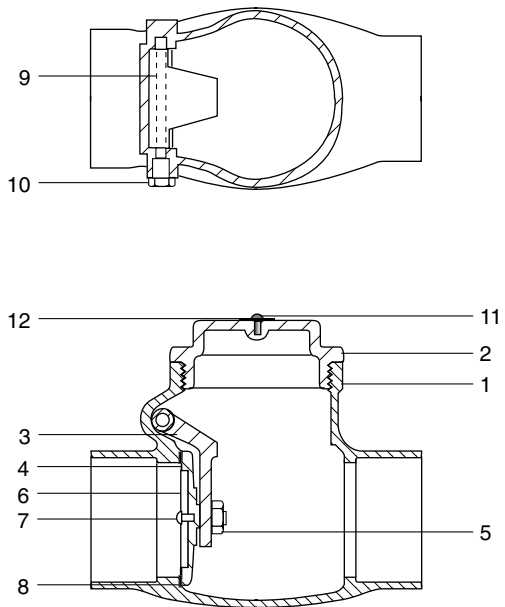
B-309C, Solder End, Brass/Bronze Disc



VALVE SIZE	DIMENSIONS		WT
	B	M	
3/8	1.50	2.28	0.60
	(38)	(58)	(.27)
1/2	1.77	2.60	0.80
	(45)	(66)	(.36)
3/4	1.93	3.23	0.90
	(49)	(82)	(.41)
1	2.28	3.86	1.40
	(58)	(98)	(.63)
1 1/4	2.56	4.49	2.50
	(65)	(114)	(1.13)
1 1/2	2.87	5.12	2.80
	(73)	(130)	(1.26)
2	3.50	6.14	4.20
	(89)	(156)	(1.90)
2 1/2	4.25	7.24	7.20
	(108)	(184)	(3.25)
3	4.84	8.27	8.80
	(123)	(210)	(3.97)

Class 125 Bronze Swing Check Valves

Figs.
B-310TC
B-310BC



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	

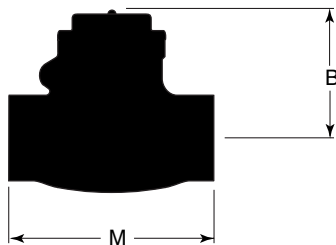
Complies with MSS-SP-80, Type 4

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

B-310TC, Solder End, PTFE Disc

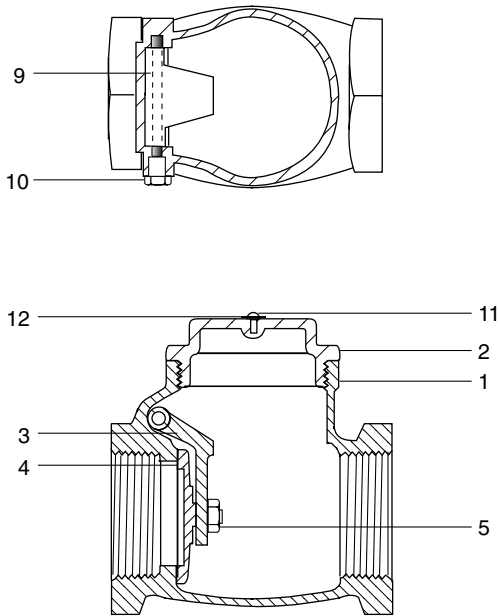
B-310BC, Solder End, Buna Disc



VALVE SIZE	DIMENSIONS		WT
	B	M	
3/8	1.50	2.28	0.60
	(38)	(54)	(.27)
1/2	1.77	2.60	0.80
	(45)	(66)	(.36)
3/4	1.93	3.23	0.90
	(49)	(82)	(.41)
1	2.28	3.86	1.40
	(58)	(98)	(.63)
1 1/4	2.56	4.49	2.50
	(65)	(114)	(1.13)
1 1/2	2.87	5.12	2.80
	(73)	(130)	(1.26)
2	3.50	6.14	4.20
	(89)	(156)	(1.90)
2 1/2	4.25	7.24	7.20
	(108)	(184)	(3.25)
3	4.84	8.27	8.80
	(123)	(210)	(3.97)

Class 125 Bronze Swing Check Valves

Fig.
B-319C



Materials of Construction

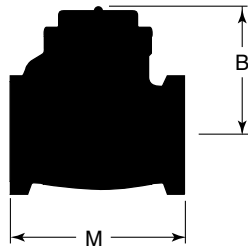
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.	
1	Body	Bronze	B-62 C83600	
2	Cap	Bronze	B-62 C83600	
3	Hinge	Bronze	B-62 C83600	
4	Disc	1/4-1	Brass	B-16 C36000
		1 1/4-3	Bronze	B-62 C83600
5	Nut	Brass	B-16 C36000	
9	Pin	Brass	B-16 C36000	
10	Screw	Brass	B-16 C36000	
11	Drive Pin	Mild Steel		
12	Name Plate	Aluminum		

Complies with MSS-SP-80, Type 3

Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

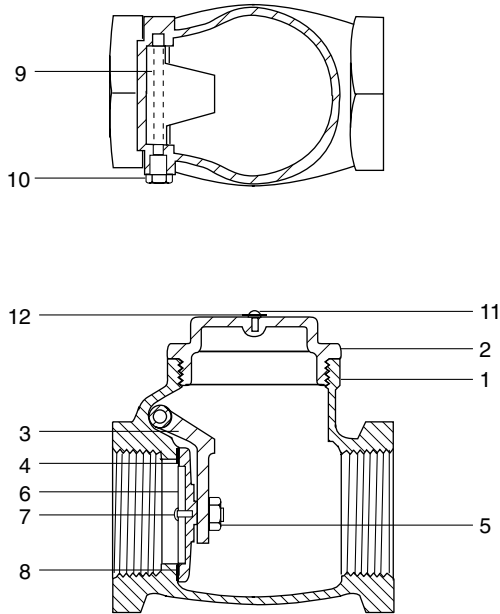
B-319C, Threaded End, Brass/Bronze Disc



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)

Class 125 Bronze Swing Check Valves

Figs.
B-320BC
B-320TC
B-320VC



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-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

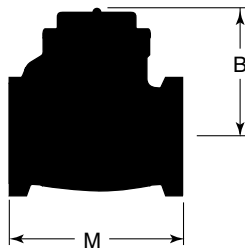
Dimensions and Weights

Inches (Millimeters) - Pounds (Kilograms)

B-320BC, Threaded End, Buna Disc

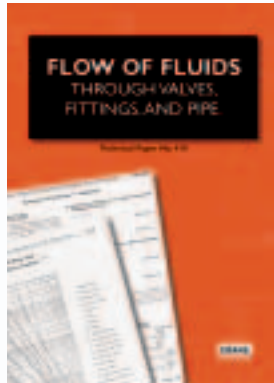
B-320TC, Threaded End, PTFE Disc

B-320VC, Threaded End, Viton Disc



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)

"WE WROTE THE BOOK"



STOCKHAM

2129 3rd Avenue, S.E.
Cullman, Alabama 35055
Tel: 1-800-STOCKHAM
Fax: 1-256-775-3860

www.stockham.com

Stockham is a trademark of Crane Co.

CRANE

THE VALVE EXPERTS