



Meets California Prop. 65
61<5
Drinking Water Standards



BRONZE & BRASS VALVES



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INDUSTRY LEADING INNOVATION

OUR INDUSTRY LEADING TECHNOLOGY IS MAKING YOUR WATER SAFE.

Brass valves from American Valve are designed and monitored to minimize the impact of harmful chemicals on the health and safety of people and the environment. We offer a full array of brass and bronze valves certified to meet ANSI/NSF Standard 61 as well as California Proposition 65.

We start with the finest materials available. Our raw materials are carefully monitored to ensure proper chemical composition.

Every valve is tested for closing tightness and functionality to ensure safe, dependable operation.

Brass valves from American Valve meet the widest range of code approvals in the market. Our products are certified to USA and international standards by Underwriters Laboratories, CSA International, Factory Mutual, IAPMO, and the American Society of Sanitary Engineers.



M100VL VIPERLOK®

Push-Fit Ball Valve



- Fast, easy, versatile connection to multiple pipe materials



- Removal tool included with each valve

FEATURES:

- 100% Full Port Opening
- Solid Ball
- Push-Fit Ends
- For use with Copper, CPVC, and Pex* Pipe



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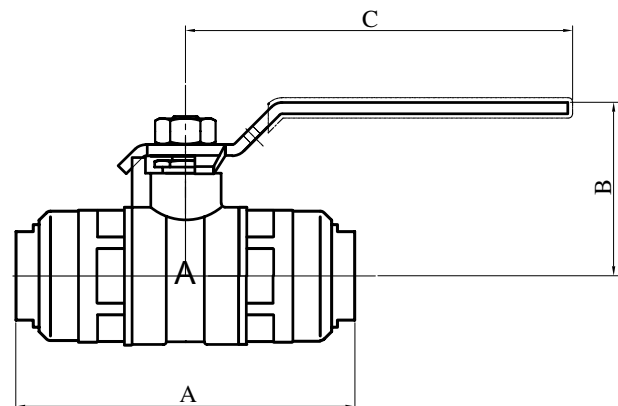
RATINGS:

200 psi non-shock water or air

Part	Material
Handle Nut	Stainless Steel
Handle	Steel
Packing	PTFE
Stem	Brass
Body	Brass
Ball	Brass (chrome plated)
Seat	PTFE
O-Ring	NBR
Liner	POM

DIMENSIONS:

		1/2	3/4	1
A	End to End	2 24/32	3 1/2	4 1/8
B	Center of Port to Top	1 15/32	1 25/32	2 1/4
C	Overall Height	3 1/4	3 31/32	4 24/32
	Weight	0.55	0.95	1.47



* Not for use with PEX-AL-PEX or PEX tubing with an oxygen barrier

M100

Brass Ball Valve

One valve does it all!



- CSA ½G, 5G, 125G gas ratings (½" -2")
- UL-listed for flammable liquids (¼" -2")
- FM for fire protection (½" -2")
- Conforms to MSS-SP-110

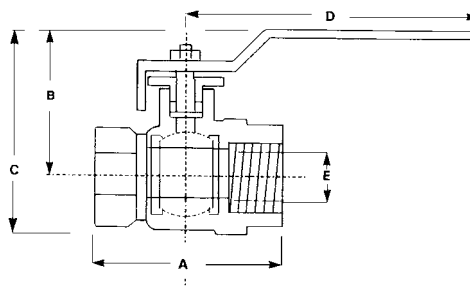
Part	Material
Handle Nut	Steel
Handle	Steel
Stem Gland Screw	Brass ASTM B-16
Packing	Teflon® (PTFE)
Stem	Brass ASTM B-16
Body	Forged/Cast Brass
Ball	Brass/Forged Brass (chrome Plated)

FEATURES:

- 100% Full Port Opening
- Solid Ball
- Threaded Ends
- Most versatile valve available
- Teflon® Seats
- Teflon® Packing

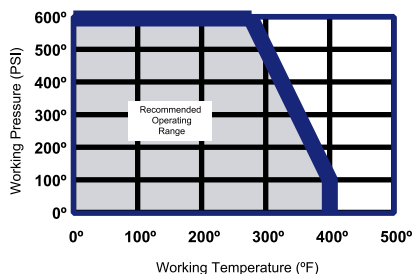
RATINGS:

150 psi WSP
600 psi WOG (400 WOG 2½-4")



Options - T Handle
- Locking Handle

Pressure/Temperature Rating



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DIMENSIONS:

		¼	⅜	½	¾	1	1 ¼	1 ½	2	2 ½	3	4
A	End to End	1 ⅞	1 ⅞	1 ⅞	2 ½	3	3 ⅞	3 ⅞	4 ¼	6	6 ½	7 ¾
B	Center of Port to Top	1 ¾	1 ¾	1 ⅞	2 ⅞	2 ¼	2 ⅞	2 ¾	3 ⅞	4 ¾	5 ⅞	6
C	Overall Height	2 ¼	2 ¼	2 ⅞	2 ⅞	3 ¼	3 ¾	4 ⅞	5	6 ⅞	7 ¼	9
D	Center of Valve to End of Handle	3 ½	3 ½	3 ⅞	4 ¾	4 ¾	5 ¼	5 ¼	5 ½	9 ⅞	9 ⅞	10 ½
E	Port Opening	⅜	⅜	⅞	¾	1	1 ¼	1 ½	2	2 ½	3	4
	Weight	0.3	0.3	0.45	0.8	1.2	2	2.7	3.25	7.85	8.65	16.3
	Approx. CV	12	12	20	42	78	132	207	346	470	590	670

M100S

Brass Ball Valve



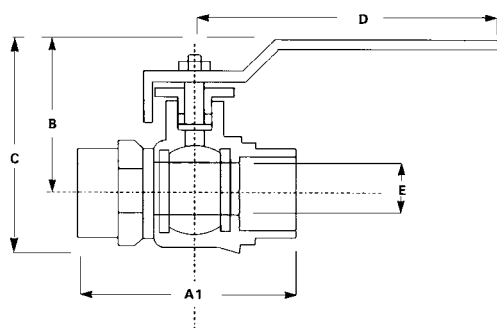
FEATURES:

- 100% Full Port Opening
- Solid Ball
- Sweat Ends
- Teflon® Seats
- Teflon® Packing



RATINGS:

150 psi WSP
 600 psi WOG (400 WOG 2½-4")
 * Rating may be limited by strength of pipe connection



Part	Material
Handle Nut	Steel
Handle	Steel
Stem Gland Screw	Brass ASTM B-16
Packing	Teflon® (PTFE)
Stem	Brass ASTM B-16
Body	Forged/Cast Brass
Ball	Brass/Forged Brass (chrome plated)

DIMENSIONS:

		¾	1½	¾	1	1 ¼	1 ½	2	2 ½	3	4
A	End to End	1 ⅝	1 ⅞	2 ¾	3 ¼	4 ⅛	4 ¾	5 ¼	6 ⅝	7	9 ¼
B	Center of Port to Top	1 ½	1 ⅝	2	2 ⅝	2 ⅞	3 ⅛	3 ⅝	4 ⅛	4 ⅞	5 ⅝
C	Overall Height	1 ⅞	2 ⅛	2 ¾	3 ⅛	3 ¾	4 ¾	5 ⅛	6 ¼	7 ⅝	8 ⅝
D	Center of Valve to End of Handle	3 ⅝	3 ⅝	4 ⅝	4 ⅝	5 ⅝	5 ⅝	5 ⅝	8	9 ⅝	9 ⅝
E	Port Opening	¾	1½	¾	1	1 ¼	1 ½	2	2 ½	3	4
	Weight	0.3	.035	0.75	1.1	1.6	2.25	3.2	6.4	8.9	15.8
	Approx. CV	12	20	42	78	132	207	346	470	590	670

T200 Series Brass Ball Valves

FIGURE: T200W

- Threaded Ends
- Full Port
- Teflon® Seats
- Teflon® Packing
- Waste & Cap

RATING:
600 psi WOG



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FIGURE: T200SW

- Sweat Ends
- Full Port
- Teflon® Seats
- Teflon® Packing
- Waste & Cap

RATING:
600 psi WOG



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FIGURE: T200C

- Compression Ends
- Full Port
- Teflon® Seats
- Teflon® Packing

RATING:
400 psi WOG



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FIGURE: T200BXB

- Pex Ends
- Teflon® Seats
- Teflon® Packing

RATING:
400 psi WOG



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2A Bronze Ball Valves



- Made in USA
- Threaded Ends
- Teflon® Seats
- Teflon® Packing
- Blow-Out Proof Stem

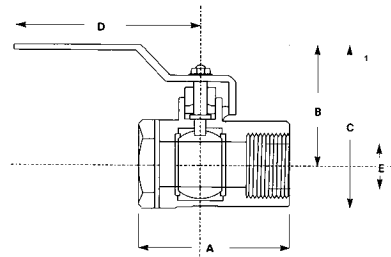
RATING:
200 psi WSP
600 psi WOG

*Rating may be limited by strength of pipe connection

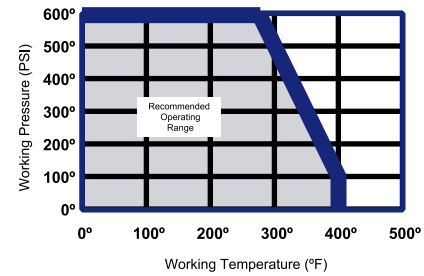
SPECIFICATIONS:
Fed. Spec. WW-V-35
Type 2 Class A



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Pressure/Temperature Rating



DIMENSIONS:

		1/2	3/4	1
A	End to End	1/2	11/16	7/8
B	Center of Port to Top	1 1/8	1 1/2	1 11/16
C	Overall Height	2 1/4	3	3 3/8
D	Center of Valve to End of Handle	1 3/4	2 1/8	2 1/4
E	Port Opening	3 7/8	4 7/8	4 7/8
	Weight	.63	1.39	1.72
	Approx. CV	15	25	40
	Operating Torque (in lbs.)	30	90	150

Part	Material
Handle Nut	Steel
Handle	Steel Zinc-Plated
Stem	ASTM B-16
Packing Nut	ASTM B-16
Packing	Teflon®
Retainer	ASTM B-16
Body	Bronze ASTM B-145
Bonnet	Bronze ASTM B-145
Seat	Teflon®
Ball	ASTM B-16 Chrome Plated

Bronze Gate Valves

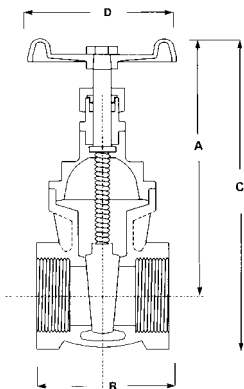


FIGURE: 3/3F

- Threaded Ends
- Non-rising Stem
- Solid Wedge Disc
- Teflon® Packing

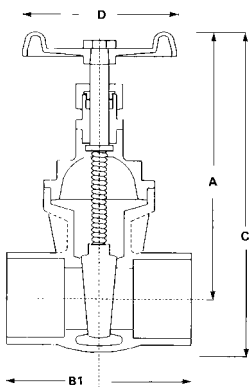


FIGURE: 3S/3FS

- Sweat Ends
- Non-rising Stem
- Solid Wedge Disc
- Teflon® Packing

Part	Material
Wheel Nut	Steel Zinc-Plated
Handlewheel	Cast Iron
Packing Nut	Bronze ASTM B-16
Gland	Bronze ASTM B-16
Packing	Teflon®
Stuffing Box	Bronze ASTM B-16
Bonnet	Bronze ASTM B-62
Stem	Silicon Bronze ASTM B-371
Disc	Bronze ASTM B-62
Body	Bronze ASTM B-62

SPECIFICATIONS:

MSS SP-80-1979
 Type 1 Class 125

Fed. Spec. WW-V-54D
 Type 1 Class A

RATINGS:

125 psi WSP
 200 psi WOG

DIMENSIONS:

	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
A	3 3/8	3 3/8	3 3/4	4 1/8	5	5 1/2	6	7 1/4	9 1/2	10	10 3/4
B	1 7/8	1 7/8	2	2 1/8	2 3/8	2 5/8	2 7/8	3 1/4	4 1/8	4 3/4	4 3/4
B1		1 3/4	1 7/8	2 1/16	2 3/4	2 7/8	3 1/16	3 3/4	4 3/4	5 1/2	7
C	3 3/4	3 3/4	4 3/8	4 7/8	6	6 3/4	7 3/8	8 7/8	11 1/2	13 7/8	13 1/2
D	2 1/8	2 1/8	2 1/8	2 3/8	2 3/4	3	3 1/4	3 3/4	4 1/2	5	6
Weight lbs. Thd.	.75	.75	.81	.94	1.5	2.06	2.81	4.25	9.19	15.8	20.0
Weight lbs. Swt.		.69	.71	.88	1.39	1.82	2.50	3.96	8.34	15.8	21.0

Bronze Gate Valves

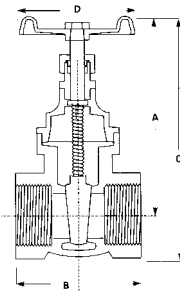


FIGURE: 3FG

- Threaded Ends
- Non-rising Stem
- Solid Wedge Disc
- Teflon® Packing

	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
A	3 7/8	4 1/2	5 1/8	5 3/4	6 1/4	7 3/8	8 1/2	10 1/4
B	1 7/8	2 1/8	2 5/8	2 7/8	3 1/8	3 3/8	4 1/8	4 3/4
C	4 3/8	5 1/8	6	6 7/8	7 3/8	8 3/4	10 1/2	12 1/2
D	2 1/8	2 1/2	2 5/8	3	3 1/2	4 1/8	4 1/2	5
Weight lbs. Thd.	.84	1.31	1.87	2.63	3.44	5.64	9.34	15.84

Part	Material
Wheel Nut	Steel Zinc-Plated
Handlewheel	Cast Iron
Packing Nut	Bronze ASTM B-16
Gland	Bronze ASTM B-16
Packing	Teflon®
Stuffing Box (3FG)	Bronze ASTM B-16
Bonnet	Bronze ASTM B-62
Stem	Silicon Bronze ASTM B-371
Disc	Bronze ASTM B-62
Body	Bronze ASTM B-62

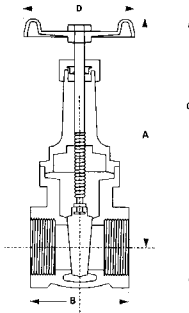


FIGURE: 4FG

- Threaded Ends
- Rising Stem
- Solid Slip-on Wedge Disc
- Teflon® Packing

	1/2	3/4	1	1 1/4	1 1/2	2
A	5 1/4	6 3/8	7 1/2	8 1/4	10 1/8	12 3/8
B	2	2 1/8	2 3/8	2 3/4	2 7/8	3 1/4
C	5 7/8	7 1/8	8 3/8	9 1/2	11 1/2	14
D	2 1/8	2 1/2	2 5/8	3	3 1/2	4 1/8
Weight lbs Thd.	1.14	1.50	2.71	3.38	4.75	7.19

SPECIFICATIONS:

MSS SP-80-1979
Type 1 Class 150

Fed. Spec. ww-V-54D
Type 1 Class B

RATINGS:

150 psi WSP
300 psi WOG

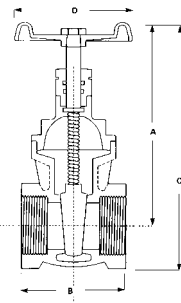


FIGURE: 3R
Pump and Underground

- Threaded Ends
- Non-rising Stem
- Solid Wedge Disc
- Double O-Ring Packing

RATING:
200 psi WOG

	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
A	3 3/4	4 1/8	5	5 1/2	6	7 1/4	9 1/2	10
B	2	2 1/8	2 3/8	2 5/8	2 7/8	3 1/4	4 1/8	4 3/4
C	4 3/8	4 7/8	6	6 3/4	7 3/8	8 7/8	11 1/2	13 7/8
D	2 1/8	2 3/8	2 3/4	3	3 1/4	3 3/4	4 1/2	5
Weight lbs.	.74	.94	2.00	2.00	2.81	4.25	9.19	15.84

Part	Material
Wheel Nut	Steel Zinc-Plated
Handlewheel	Cast Iron
Bonnet	Bronze ASTM B-145
Stem	Bronze ASTM B-16
Body	Bronze ASTM B-145
Disc	Bronze ASTM B-145
O-Ring	Buna N
O-Ring Gland	Bronze ASTM B-16

Recommended for cold water, oil, or gas. Specifically manufactured for pumping systems and installations where maintaining a line vacuum is essential. Operating nuts can be supplied upon request.

M300 Series

Brass Gate Valves - Full Port

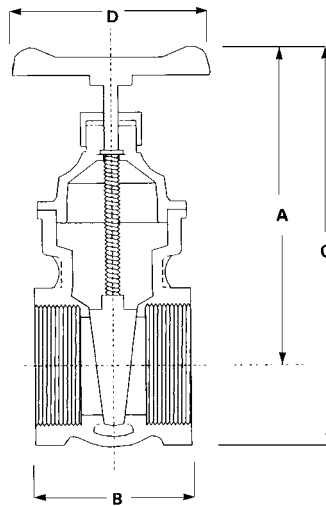


FIGURE: M300

- Full Port
- Threaded Ends
- Non-rising Stem
- Solid Wedge Disc

RATINGS:
200 psi WOG

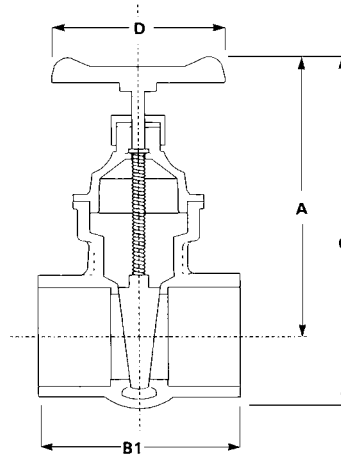


FIGURE: M300S

- Full Port
- Sweat Ends
- Non-rising Stem
- Solid Wedge Disc



DIMENSIONS:

		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
A	Center of Port to top	2 3/4	2 3/4	2 7/8	3 3/4	3 7/8	4 5/8	5	6	7 5/16	8 1/2	9 5/8
B	End to End	1 5/8	1 5/8	1 5/8	1 7/8	2 1/8	2 3/8	2 1/2	2 3/4	3 1/2	3 15/16	4 9/16
B1	End to End		1 1/2	1 3/4	2 5/16	2 3/4	2 7/8	3 1/4	3 7/8	4 5/8	5 1/4	
C	Overall Height	3 1/8	3 1/8	3 3/8	4	4 5/8	5 5/8	6	7 1/2	9 3/16	10 1/4	12 3/8
D	Wheel Diameter	2 1/8	2 1/8	2 1/8	2 1/8	2 3/8	3	3	3 1/4	4 1/8	5	6 3/4
	Weight lbs. Thd.	0.55	0.5	0.6	0.8	1.1	1.75	2.05	3.35	6.3	9.1	16.4
	Weight lbs. Swt.		0.5	0.55	0.75	1.1	1.65	1.9	3.15	5.75	8.85	

T300 Series

Brass Gate Valves - Compact

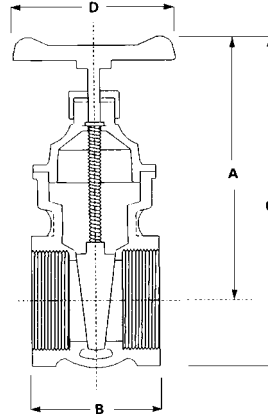
FIGURE: T300

- Threaded Ends
- Non-rising Stem
- Solid Wedge Disc
- Compact Design

RATINGS:

200 psi WOG

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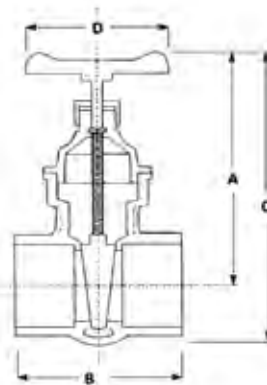
DIMENSIONS:

		1/2	3/4	1
A	Center of Port to top	2 5/8	2 13/16	3 5/16
B	End to End	1 5/8	1 11/16	1 7/8
C	Overall Height	3 1/4	3 1/2	4 1/8
D	Wheel Diameter	2 1/8	2 1/8	2 1/8
	Weight lbs.	0.5	0.6	0.85

FIGURE: T300S

- Sweat Ends
- Non-rising Stem
- Solid Wedge Disc
- Compact Design

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DIMENSIONS:

		1/2	3/4
A	Center of Port to top	2 11/16	2 13/16
B	End to End	1 5/8	2 1/8
C	Overall Height	3 1/8	3 3/8
D	Wheel Diameter	2 1/8	2 1/8
	Weight lbs.	.45	.55

13 Bronze Globe Valve

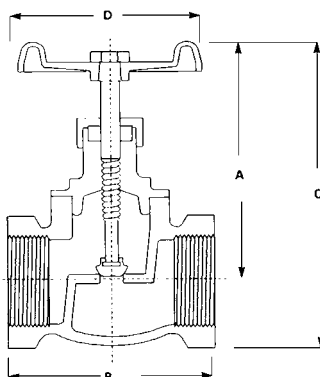


FIGURE: 13

- Threaded Ends
- Bronze Disc
- Teflon® Packing

RATINGS:

125 psi WSP
200 psi WOG

DIMENSIONS:

	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	2 3/4	2 3/4	3 1/4	3 5/8	4	4 1/2	5 1/4	6 3/8
B	1 3/4	1 3/4	2	2 1/2	2 7/8	3 3/8	3 3/4	4 1/2
C	3 1/4	3 1/4	3 7/8	4 3/8	4 7/8	5 5/8	6 1/2	8 1/8
D	2	2	2 1/8	2 3/8	2 3/4	3	3 1/4	3 3/4
Weight lbs.	.43	.40	.58	1.00	1.32	2.11	2.72	4.95

Part	Material
Wheel Nut	Steel
Handlewheel	Cast Iron
Packing Nut	Bronze ASTM B-16
Packing	Teflon®
Bonnet	Bronze ASTM B-145
Stem	Bronze ASTM B-16
Disc Lock Nut	Bronze ASTM B-16
Disc	Bronze ASTM B-16
Body	Bronze ASTM B-145

14N Bronze Angle Valve

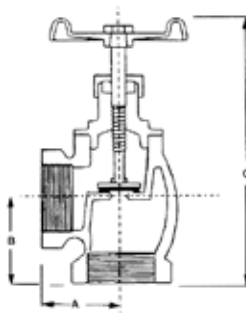


FIGURE: 14N

- Threaded Ends
- Neoprene Disc

RATING:

200 psi WOG

DIMENSIONS:

		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	Center of Inlet to Face of Outlet	27/32	15/16	1 3/32	1 7/32	1 15/32	1 3/4	2	2 11/32
B	Center of Outlet to Face of Inlet	27/32	15/16	1 3/32	1 7/32	1 15/32	1 3/4	2	2 11/32
C	Center of Port to Top (Closed)	2 3/4	3	3 1/4	3 5/8	4	4 1/2	5 1/4	6 1/2
D	Diameter of Wheel	1 3/4	1 3/4	2 1/32	2 3/8	2 3/4	3	3 23/32	3 23/32
	Weight lbs.	.44	.56	.69	.94	1.76	2.50	3.26	5.32

31F Series Bronze Check Valves

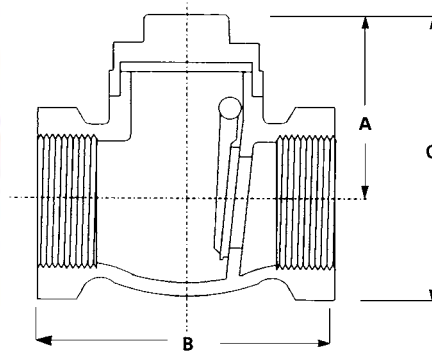


FIGURE: 31F

- Swing Check
- Threaded Ends
- Bronze Disc
- Side Plug

SPECIFICATIONS:
MSS-SP-80
Type 3 Class 125

Fed. Spec. WW-V-51
Type IV, Class A

RATINGS:
125 psi WSP
200 psi WOG

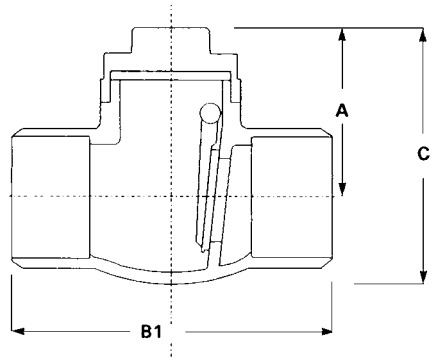


FIGURE: 31FS

- Swing Check
- Sweat Ends
- Bronze Disc
- Side Plug

DIMENSIONS:

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
A	$1\frac{5}{8}$	$1\frac{5}{8}$	$1\frac{11}{16}$	$2\frac{3}{16}$	$2\frac{11}{16}$	$3\frac{1}{16}$	$3\frac{3}{16}$	$3\frac{3}{8}$	$4\frac{1}{8}$
B	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{15}{16}$	$4\frac{1}{2}$	$4\frac{15}{16}$	6	$7\frac{1}{8}$
B1		$2\frac{7}{16}$	$3\frac{1}{8}$	$3\frac{5}{8}$	$4\frac{3}{16}$	$4\frac{3}{8}$	$4\frac{7}{8}$	7	$8\frac{3}{4}$
C	$2\frac{5}{16}$	$2\frac{5}{16}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4	$4\frac{3}{8}$	$4\frac{15}{16}$	$5\frac{3}{8}$	$6\frac{1}{8}$
C1		$2\frac{1}{4}$	$2\frac{9}{16}$	$3\frac{1}{4}$	$3\frac{15}{16}$	$4\frac{5}{16}$	$4\frac{13}{16}$	$5\frac{3}{8}$	$6\frac{1}{8}$
Weight lbs. Thd.	.61	.61	.84	1.54	2.01	3.11	4.02	7.98	12.00
Weight lbs. Swt.		.53	.80	1.29	1.84	2.55	3.49	7.30	12.15

Part	Material
Nut	Bronze ASTM B-16
Cap	Bronze ASTM B-62
Hinge Pin	Bronze ASTM B-16
Plug	Bronze ASTM B-16
Hinge	Bronze ASTM B-16
Disc	Bronze ASTM B-16
Disc Ring	PTFE
Body	Bronze ASTM B-62

M31 Series Brass Check Valves

FIGURE: M31

- Swing Check
- Threaded Ends

RATINGS:

125 psi WSP
200 psi WOG

Meets California Prop. 65
61<5
Drinking Water Standards

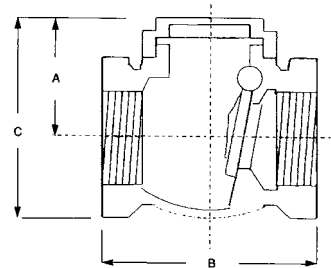
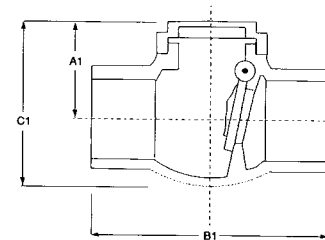


FIGURE: M31S

- Swing Check
- Sweat Ends

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
A	Center of Port to Top of Cap	1 1/2	1 5/8	1 3/4	2	2 1/4	2 5/8	2 7/8	3 1/4	3 7/8
A1	Center of Port to Top of Cap	1 3/8	1 1/2	1 7/8	2	2 1/4	2 3/4			
B	End to End	2	2 1/4	2 11/16	3 1/16	3 1/2	4 1/4	5 1/8	5 1/2	6 5/8
B1	End to End	2 3/8	3 1/8	3 1/2	4 3/16	4 1/2	5 3/8			
C	Overall Height	2 1/8	2 1/4	2 3/8	3	3 1/4	4	4 1/2	5 1/4	6 1/2
C1	Overall Height	2	2 1/4	2 5/8	3	3 3/8	4			
	Weight lbs. Thd.	1/3	.55	.8	1.1	1.45	2.35	4.35	5.5	9.4
	Weight lbs. Swt.	.4	.55	.85	1.25	1.6	2.4			

FIGURE: M31SL

- Inline Check
- Spring-loaded
- Threaded Ends
- May be used vertically or horizontally
- Stainless Steel spring

RATINGS:

200 psi WOG

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

	3/4	1	1 1/4
End to End	2 11/16	3 3/16	3 5/8
Center of Port to Top	3/4	7/8	1 1/16
Over all Height	1 1/2	1 3/4	2 1/8
Weight lbs.	0.6	0.9	1.3

BRONZE GAS COCKS

FIGURE: 85CBK

- Square Head
- Double Nut
- With Check
- Massachusetts State Gas Board Approved

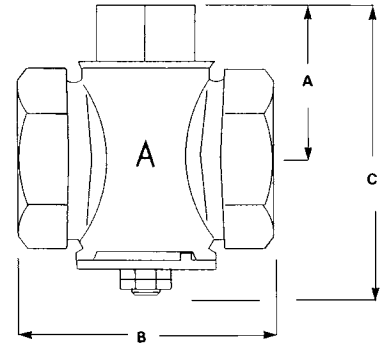


FIGURE: 86C

- Flat Head
- Double Nut
- With Check

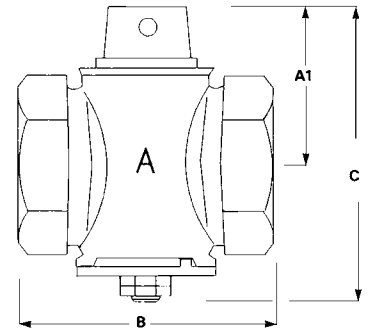


FIGURE: 87CBK

- Tee Handle
- Double Nut
- With Check
- Massachusetts State Gas Board Approved

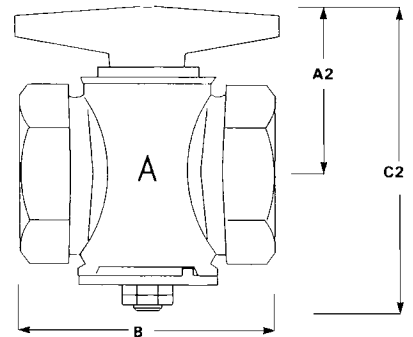
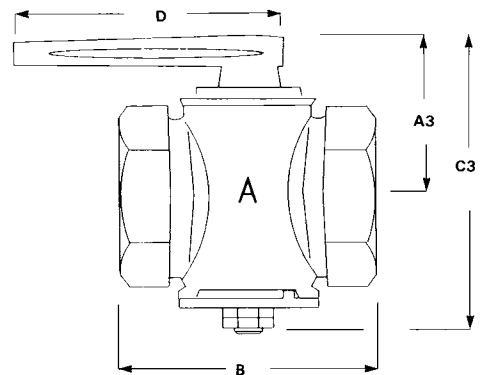


FIGURE: 88C

- Lever Handle
- Double Nut
- With Check



*Please see dimensions and specifications on next page

BRONZE GAS COCKS

DIMENSIONS:

		1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	Center of Port to Top	1 7/16	1 7/16	1 7/16	1 1/2	1 1/2	2 1/4	2 11/16	3
A1	Center of Port to Top	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8	2 1/4	2 5/8	2 7/8
A2	Center of Port to Top	1 3/16	1 7/16	1 7/16	1 11/16	1 11/16	2 5/8	3 1/4	3 7/16
A3	Center of Port to Top	1 5/8	1 5/8	1 5/8	2 1/4	2 1/4			
B	End to End	2 1/8	2 1/8	2 1/8	2 3/8	2 5/8	3 1/16	3 1/2	4 1/4
C	Overall Height	2 11/16	2 11/16	2 11/16	2 15/16	2 15/16	4 1/16	4 13/16	5 5/8
C1	Overall Height	2 11/16	2 11/16	2 11/16	3	3	4 1/8	4 13/16	5 9/16
C2	Overall Height	2 11/16	2 11/16	2 11/16	3 1/8	3 1/8	4 7/16	5 7/16	6 1/8
C3	Overall Height	2 13/16	2 13/16	2 13/16	3 1/2	3 1/2			
D	Handle Length	1 7/8	1 7/8	1 7/8	2 1/8	2 1/8			
	Weight lbs. 86C	.48	.43	.45	.79	.79	1.8	2.8	3.86
	Weight lbs. 85CBK	.51	.46	.47	.83	.83	1.81	2.80	4.00
	Weight lbs. 87CBK	.48	.44	.47	.81	.81	1.84	2.80	4.70
	Weight lbs. 88C	.52	.49	.51	.92	.92			

Specifications for manually operated low-pressure gas cocks:
Figures: 85CBK, 87CBK, 88C, 86C

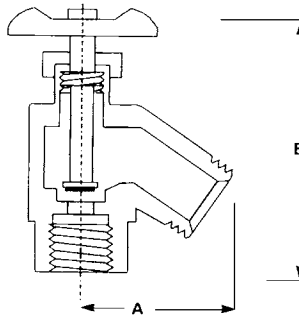
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Test Pressure	100 psi	100 psi	100 psi	100 psi	100 psi	100 psi	100 psi	100 psi
Max. Line Pressure	12 psi	12 psi	12 psi	12 psi	12 psi	12 psi	12 psi	12 psi
Min. Capacity-BTU/Hr. (1000 BTU per Cu. FT. Gas)	216,000	216,000	260,000	698,000	1,192,000	1,768,000	3,097,000	5,346,000
Lineal & Circumferential Seal	7/64	7/34	7/64	7/64	1/8	5/32	7/32	5/16
Bearing Surface	15/64	15/64	15/64	15/64	1/4	9/32	11/32	13/32
Plug Take-Up	3/64	3/64	3/64	3/64	5/64	5/64	5/64	5/64
Shoulder Distance	7/16	1/2	9/16	5/8	3/4	13/16	13/16	7/8
Minimum Breakage Weight from Extreme Outlet End	65 lbs.	80	100	125	150	175	200	225
Minimum Turning Effort on Thread	157 in. lbs.	225	300	450	600	700	750	950
Minimum Impact Breaking Point	10ft lbs.	15	20	20	20	30	30	30
Minimum Static Load	40 lbs.	40	40	42.5	45	47.5	62.5	85
Maximum Torque	15 in. lbs.	20	25	35	45	60	80	100
# Threads Per Inch	18	18	14	14	11 1/2	11 1/2	11 1/2	11 1/2
Length of Thread	.4051	.4070	.5337	.5457	.6828	.7068	.7235	.7565
Height of Thread	.04444	.04444	.05714	.05714	.06957	.06957	.06957	.06957
Pitch of Thread	.05556	.05556	.07143	.07143	.08696	.08696	.08696	.08696

BENT NOSE GARDEN VALVES

FIGURE: M78

- Bent Nose
- Garden Valve

Meets California Prop. 65
61<5
Drinking Water Standards



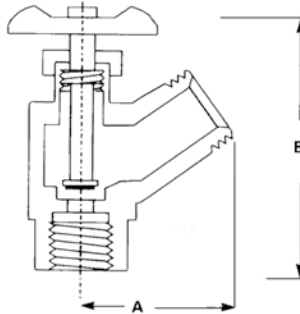
DIMENSIONS:

		1/2	3/4	1
A	Center of Inlet to Face of Hose Connection	1 7/8	1 7/8	1 7/8
B	Center of Port to Top of Stem	4 1/4	4 1/4	4 3/8
	Weight lbs.	.43	.48	.51

FIGURE: M78INV

- Bent Nose
- Garden Valve

Meets California Prop. 65
61<5
Drinking Water Standards



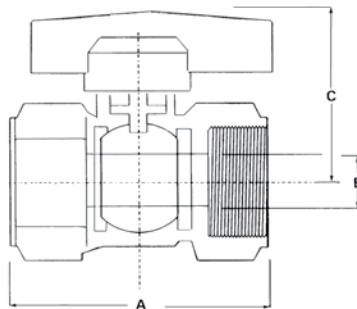
DIMENSIONS:

		1/2	3/4	1
A	Center of Inlet to Face of Hose Connection	1 7/8	1 7/8	1 7/8
B	Center of Port to Top of Stem	4 1/4	4 1/4	4 3/8
	Weight lbs.	.43	.48	.51

GAS BALL VALVES

FIGURE: M88C

- Lever Handle with check



Certified by CSA International to AGA & CGA Standards for Manual gas valves.

Approved in the commonwealth of Massachusetts by the State Board of Examiners of Plumbers and Gas Fitters.



Meets California Prop. 65
61<5
Drinking Water Standards



SPECIFICATIONS:

Tested under ANSI Standards Z21.15 1979 and Z21.15a 1981

		3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	End to End	1 3/4	2 3/16	2 3/8	2 7/8	3 3/8	3 3/4	4 1/8
B	Port Opening	5/16	15/32	19/32	25/32	1 1/4	1 1/2	2
C	Center of Port to Top of Handle	1 1/4	1 11/16	1 3/4	1 3/4	2 2/3	2 13/16	3 3/8
	Capacity (BTU/Hr)	120,000	295,000	795,000	1,240,000			
	Weight lbs.	.38	.43	.55	.93	1.4	2.9	

M88CF Series

Gas Ball Appliance Connector Valves

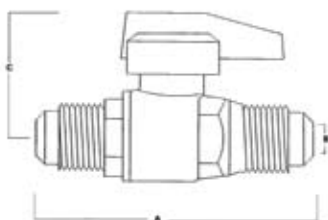


Figure: M88CF		3/8	1/2
		3/8 Flare 5/8-18 Thread	1/2 Flare 3/4-16 Thread
A	End to End	2 5/8	2 13/16
B	Port Opening	5/16	5/16
C	Center of Port to Top	1 1/4	1 1/4
	Capacity (BTU/Hr)	103,000	339,000
	Weight lbs.	.29	.36

- IPS Threaded Ends
- Flare Fitting
- Chrome Plated Ball
- 1/4 Turn to open
- Teflon Seat

SPECIFICATIONS:
 Tested under ANSI
 Standards Z21.15 1979
 and Z21.15a 1981

Approved in the Commonwealth of Massachusetts by the State Board of Examiners of Plumbers and Gas Fitters

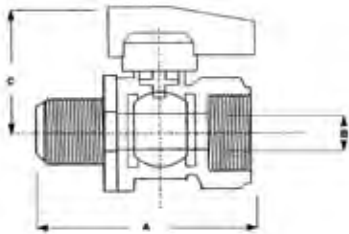
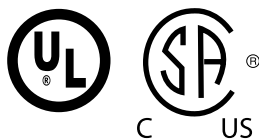


Figure: M88CF12		1/2 IPS x 1/2 Flare 3/4-16 Thread
A	End to End	2 1/2
B	Port Opening	3/8
C	Center of Port to Top	1 5/16
	Capacity (BTU/Hr)	301,000
	Weight lbs.	.36

Figure: M88CF38A		1/2 IPS x 3/8 Flare 5/8-18 Thread
A	End to End	2 1/2
B	Port Opening	3/8
C	Center of Port to Top	1 5/16
	Capacity (BTU/Hr)	301,000
	Weight lbs.	.36

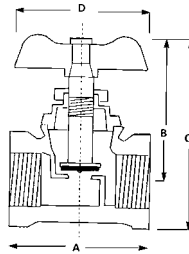
Figure: M88CF58		3/4 IPS x 5/8 Flare 1 5/16 - 16 Thread
A	End to End	2 1/2
B	Port Opening	3/8
C	Center of Port to Top	1 5/16
	Capacity (BTU/Hr)	301,000
	Weight lbs.	.36

COMPRESSION STOPS

FIGURE: M50

- Stop
- Threaded Ends

Meets California Prop. 65
61<5
Drinking Water Standards

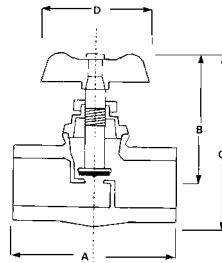


		1/2	3/4
A	End to End	2 1/8	2 3/16
B	Center of Port to Top of Stem	Open	2 11/16
		Closed	2 7/16
C	Overall Height	Open	3 1/4
		Closed	3
D	Diameter of Wheel	2	2
	Weight lbs.	.53	.60

FIGURE: M50S

- Stop
- Sweat Ends

Meets California Prop. 65
61<5
Drinking Water Standards

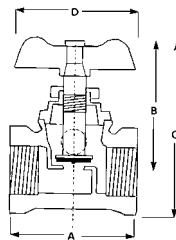


		1/2	3/4
A	End to End	2 3/16	2 3/4
B	Center of Port to Top of Stem	Open	2 3/4
		Closed	2 1/2
C	Overall Height	Open	3 1/4
		Closed	3
D	Diameter of Wheel	2	2
	Weight lbs.	.45	.51

FIGURE: M60

- Stop & Waste
- Threaded Ends

Meets California Prop. 65
61<5
Drinking Water Standards

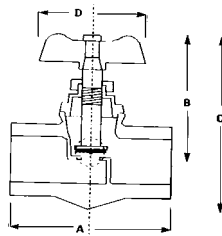


		1/2	3/4
A	End to End	2 1/8	2 3/16
B	Center of Port to Top of Stem	Open	2 11/16
		Closed	2 7/16
C	Overall Height	Open	3 1/4
		Closed	3
D	Diameter of Wheel	2	2
	Weight lbs.	.53	.60

FIGURE: M60S-CSA

- Stop & Waste
- Sweat Ends

Meets California Prop. 65
61<5
Drinking Water Standards

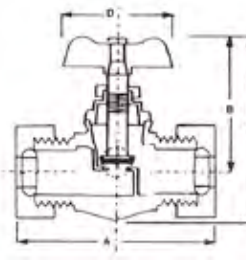


		1/2	3/4
A	End to End	2 3/16	2 3/4
B	Center of Port to Top of Stem	Open	2 3/4
		Closed	2 1/2
C	Overall Height	Open	3 1/4
		Closed	3
D	Diameter of Wheel	2	2
	Weight lbs.	.46	.52

FIGURE: M60C

- Stop & Waste
- Compression Ends

Meets California Prop. 65
61<5
Drinking Water Standards



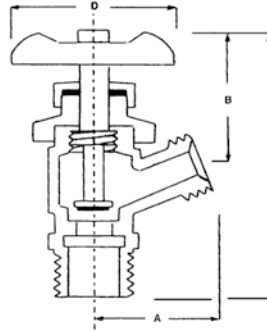
		1/2	3/4
A	End to End	2 7/8	3 1/4
B	Center of Port to Top of Stem	Open	2 11/16
		Closed	2 7/16
C	Overall Height	Open	3 1/4
		Closed	3
D	Diameter of Wheel	2	2
	Weight lbs.	.625	.75

BOILER DRAINS

FIGURE: M75-CSA

- Deluxe Pattern
- With Stuffing Box
- 1/2": Duo Pattern-Sweat and IPS
- 3/4": IPS Only

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

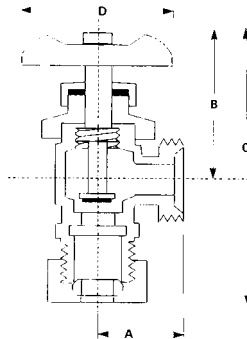
		1/2	3/4
A	Center of Inlet to Face of Hose Connection	1 5/8	1 5/8
B	Center of Port to Top of Stem	2	2 1/8
C	Overall Height	3 1/2	3 5/8
D	Diameter of Wheel	2	2
	Weight lbs.	.44	.48

*Also available as M75S CSA 3/4" Sweat

FIGURE: M75C

- Full Pattern
- With Stuffing Box
- Compression End

Meets California Prop. 65
61<5
Drinking Water Standards



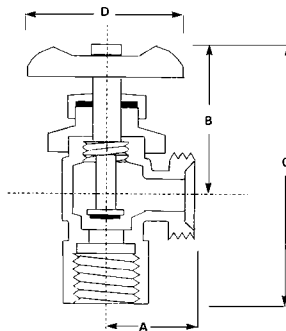
DIMENSIONS:

		1/2
A	Center of Inlet to Face of Hose Connection	2 1/16
B	Center of Port to Top of Handwheel	3 1/4
C	Overall Height	1 15/16
D	Diameter of Wheel	2
	Weight lbs.	.37

FIGURE: M76

- Full Pattern
- With Stuffing Box
- Female Thread

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

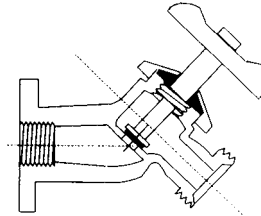
		1/2	3/4
A	Center of Inlet to Face of Hose Connection	1 1/4	1 1/4
B	Center of Port to Top of Handwheel	2 3/8	2 3/8
C	Overall Height	3 7/16	3 11/16
D	Diameter of Wheel	2	2
	Weight lbs.	.44	.48

SILLCOCKS

FIGURE: M74

- FIP Threaded Inlet

Meets California Prop. 65
61<5
Drinking Water Standards



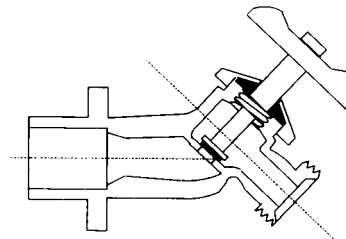
DIMENSIONS:

		1/2	3/4
A	End to End	2 3/4	2 3/4
B	Overall Height	3 1/4	3 1/4
C	Diameter of Wheel	2	2
	Weight lbs.	.48	.49

FIGURE: M74S

- Sweat End

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

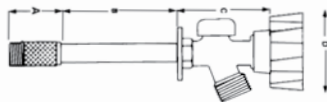
		1/2	3/4
A	End to End	3 1/4	3 3/8
B	Overall Height	3 1/4	3 1/4
C	Diameter of Wheel	2	2
	Weight lbs.	.51	.52

FROST PROOF SILLCOCKS

FIGURE: M72AS

- 1/2" Sweat x 1/2" IPS Male
- Anti-Siphon
- ASSE certified 1019
- Built-in Vacuum Breaker

Meets California Prop. 65
61<5
Drinking Water Standards



DIMENSIONS:

	4	6	8	10	12	14
A	2	2	2	2	2	2
B	4	6	8	10	12	14
C	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
D	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4	2 1/4
Weight lbs.	.88	1.00	1.10	1.13	1.25	1.28

FIGURE: MVB

- Hose Connection Vacuum Breaker

Meets California Prop. 65
61<5
Drinking Water Standards



FIGURE: TMVB2

- Hose Connection Vacuum Breaker
- Automatically Drains When Hose is Removed

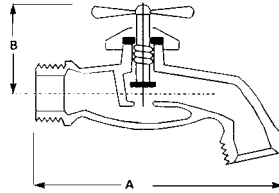
Meets California Prop. 65
61<5
Drinking Water Standards



HOSE BIBBS

FIGURE: M71

- Deluxe Pattern
- With Stuffing Box
- 1/2": Duo Pattern-Sweat and IPS
- 3/4": IPS Only

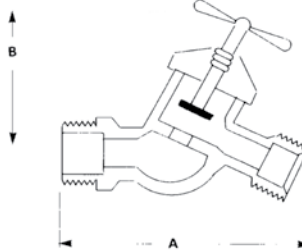


DIMENSIONS:

		1/2	3/4
A	Inlet to Center of Hose Connection	3 3/8	3 3/8
B	Center of Inlet to Top	2	2
	Weight lbs.	.43	.48

FIGURE: M75NK

- Male Thread
- No Kink

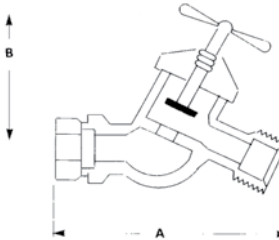


DIMENSIONS:

		1/2	3/4
A	Inlet to Center of Hose Connection	2 1/2	2 5/8
B	Center of Inlet to Top	2 3/8	2 3/8
	Weight lbs.	.43	.48

FIGURE: M75CNK

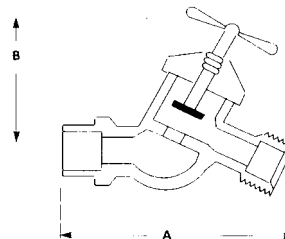
- Compression
- No Kink



		1/2
A	Inlet to Center of Hose Connection	3
B	Center of Inlet to Top	2 3/8
	Weight lbs.	.43

FIGURE: M75SNK

- 1/2 x 3/4 Sweat
- No Kink

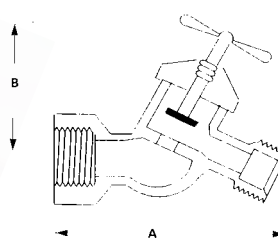


DIMENSIONS:

A	Inlet to Center of Hose Connection	2 5/8
B	Center of Inlet to Top	2 3/8
	Weight lbs.	.42

FIGURE: M76NK

- Female Threaded
- Male Thread



DIMENSIONS:

		1/2	3/4
A	Inlet to Center of Hose Connection	2 1/2	2 5/8
B	Center of Inlet to Top	2 3/8	2 3/8
	Weight lbs.	.42	.46

QUARTER-TURN HOSE END VALVES

FIGURE: M71QT

- Duo Inlet: 1/2" Solder/ MIP Thread
- Ball valve design for reliability
- Full port for maximum flow

Meets California Prop. 65
61<5
Drinking Water Standards



FIGURE: M74QT

- FIP Threaded Inlet
- Sill Flange

Meets California Prop. 65
61<5
Drinking Water Standards



FIGURE: M76QT

- Female Threaded
- FIP Threaded Inlet

Meets California Prop. 65
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Drinking Water Standards



FIGURE: M74SQT

- Sweat Inlet
- Sill Flange

Meets California Prop. 65
61<5
Drinking Water Standards



WASHING MACHINE & UTILITY VALVES

FIGURE: WMV

- Single Lever Control
- Easy to Operate
- Fits any Standard Valve Box



FIGURE: OPWMV

- Top Operated
- 1/2" MIP Inlet
- Female Hose Outlet
- Nickel Plated



FIGURE: WMVCOMP

- Compression Inlet
- Hose Outlet
- Nickel Plated
- Tee Handle



FIGURE: WMVFRONT

- Front Operated
- 1/2" FIP Inlet
- Hose Outlet
- Nickel Plated



FIGURE: SV

- Self Closing
- With Handy Pull-chain
- Durable Chrome Finish



FIGURE: ASTV

- 2 Hot/Cold Inlets
- 1 Mixed Outlet (1/2" IPS)
- Adjustable
- Not for Drinking Water Systems



CHROME PLATED QUARTER-TURN WASHING MACHINE VALVES

FIGURE: WM75CQT

- Quarter Turn
- Compact
- Compression Inlet

Meets California Prop. 65
61<5
 Drinking Water Standards



FIGURE: WM75CPVCQT

- Quarter Turn
- Compact
- CPVC Inlet

Meets California Prop. 65
61<5
 Drinking Water Standards



FIGURE: WM75PQT

- Quarter Turn
- Compact
- Pex Inlet

Meets California Prop. 65
61<5
 Drinking Water Standards



FIGURE: WM75QT

- Quarter Turn
- Compact
- Male IPS Inlet

Meets California Prop. 65
61<5
 Drinking Water Standards



FIGURE: WM76QT

- Quarter Turn
- Compact
- Female IPS Inlet

Meets California Prop. 65
61<5
 Drinking Water Standards



SUPPLY STOPS

Straight Pattern:



Fig.	Size
M63	3/8" IPS x 3/8" Compression
M63	1/2" IPS x 3/8" Compression
M63S	1/2" CxC x 3/8" Compression
M63C	5/8" Comp. x 3/8" Comp.
M63P	1/2" PEX x 3/8" Compression
M63PP	1/2" PEX x 1/2" PEX
M63CPVC	1/2" CPVC x 3/8" Comp.

Specifications:

CSA B125-93
IAPMO/UPC ASME
4A112.18M

- Chrome Plated
- Quarter Turn
- Angle
- Straight
- Dual Outlet

Angle Pattern:



Fig.	Size
M64	3/8" IPS x 3/8" Compression
M64	1/2" IPS x 3/8" Compression
M64S	1/2" CxC x 3/8" Compression
M64C	5/8" Comp. x 3/8" Comp.
M64P	1/2" PEX x 3/8" Compression
M64CPVC	1/2" CPVC x 3/8" Comp.
M65	1/2" IPS x 1/4" Compression
M65S	1/2" CxC x 1/4" Compression
M65C	5/8" Comp. x 1/4" Comp.
M65P	1/2" PEX x 1/4" Compression
M65CPVC	1/2" CPVC x 1/4" Comp.



Meets California Prop. 65
61<5
Drinking Water Standards



Dual Pattern:



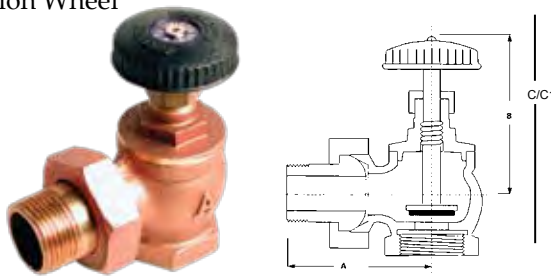
Fig.	Size
M66	1/2" IPS x 3/8" Comp. x 3/8" Comp.
M66-14	1/2" IPS x 3/8" Comp. x 1/4" Comp.
M66C	5/8" x 3/8" x 3/8" Compression
M66C-14	5/8" x 3/8" x 1/4" Compression

BRONZE RADIATOR VALVES

For steam and hot water systems

FIGURE: 9

- Steam Angle Valve
- Rising Stem
- Renewable Packing
- Composition Disc
- Composition Wheel

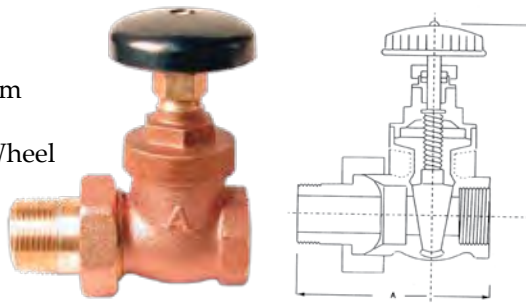


DIMENSIONS:

		1/2	3/4	1	1 1/4	1 1/2	2
A	Center of Inlet to Face	2 5/16	2 9/16	3	3 5/8	3 3/4	4 1/2
B	Center of Port to Top (open)	3 9/16	3 3/16	3 3/8	3 1/2	3 3/4	4 7/8
C	Total Height Closed	3 7/8	3 7/8	4 1/8	4 9/16	4 3/4	5 7/8
C1	Total Height Open	4 1/2	4 1/4	4 3/4	5 1/4	5 3/8	7 1/16
	Weight lbs.	.86	1.24	1.78	2.48	3.08	4.86

FIGURE: 7

- Radiator Gate
- Non-Rising Stem
- Solid Wedge
- Composition Wheel

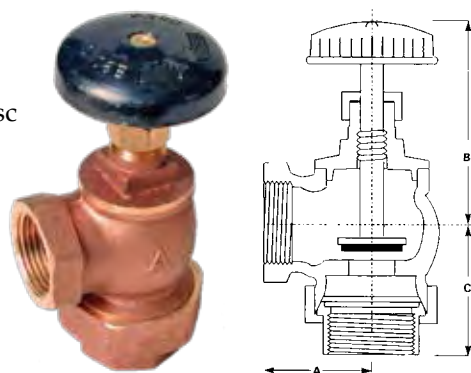


DIMENSIONS:

		1/2	3/4	1	1 1/4	1 1/2
A	End to End	3 1/8	3 1/4	3 7/8	4 1/16	4 11/16
B	Center of Port to Top	3 1/2	3 13/16	4 5/8	5	5 7/8
	Weight lbs.	1.05	1.25	1.90	2.50	4.10

FIGURE: 80

- Convector Female Angle
- Rising Stem
- Renewable Composition Disc
- Composition Wheel
- Female Union Inlet



DIMENSIONS:

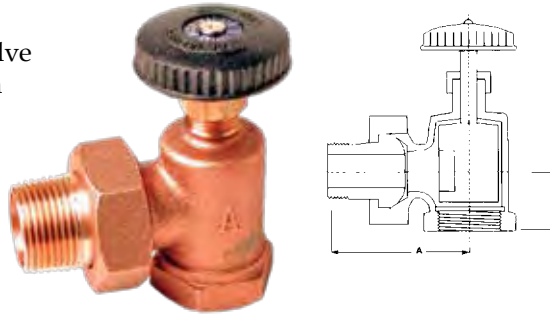
		1	1 1/4
A	Center of Inlet to Face	1 3/4	1 3/4
B	Center of Port to Top	3 1/2	3 3/4
C	Center of Port to Inlet	2 11/16	2 15/16
	Weight lbs.	1.96	2.35

BRONZE RADIATOR VALVES

For gravity and hot water heating systems

FIGURE: 45

- Hot Water Angle Valve
- Screwed Connection
- Composition Wheel

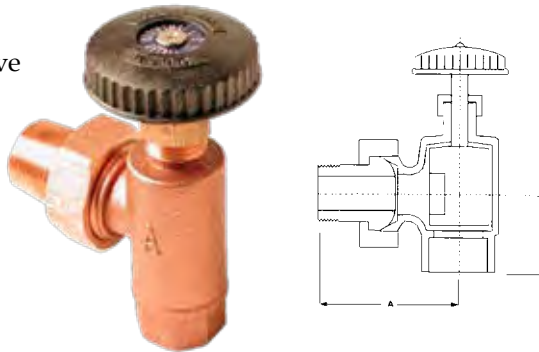


DIMENSIONS:

	1/2	3/4	1	1 1/4
A	2 3/16	2 1/2	2 7/8	3 1/8
B	1 1/8	1 5/16	1 7/16	1 5/8
Weight lbs.	.75	1.10	1.45	2.25

FIGURE: 45S

- Hot Water Angle Valve
- Sweat Connection
- Composition Wheel

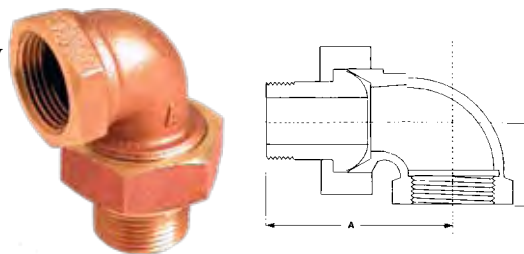


DIMENSIONS:

	1/2	3/4
A	2 1/8	2 7/16
B	1 1/8	1 3/8
Weight lbs.	.72	1.20

FIGURE: 46

- Hot Water Union Elbow
- Screwed Connection

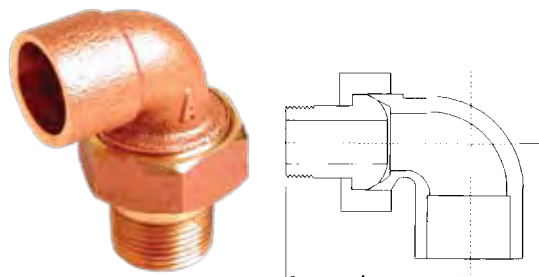


DIMENSIONS:

	1/2	3/4	1	1 1/4
A	2 5/16	2 1/2	2 13/16	3 13/16
B	1 1/8	1 1/4	1 1/2	1 3/4
Weight lbs.	.42	.65	.92	1.52

FIGURE: 46S

- Hot Water Union Elbow
- Sweat Connection



DIMENSIONS:

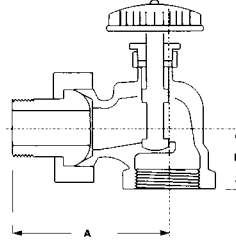
	1/2	3/4
A	2	2 1/4
B	1 3/16	1 3/8
Weight lbs.	.32	.55

BRONZE CIRCULATOR VALVES

For forced hot water heating systems

FIGURE: 40

- Angle
- Male Union
- Threaded End

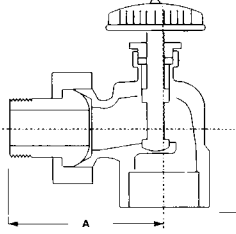


DIMENSIONS:

	1/2	3/4
A	2 3/8	2 13/16
B	1 1/4	1 1/2
Weight lbs.	.75	1.1

FIGURE: 40S

- Angle
- Male Union
- Sweat End

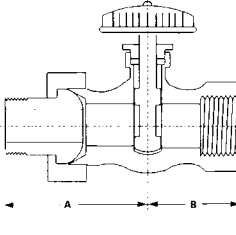


DIMENSIONS:

	1/2	3/4
A	2 3/8	2 3/4
B	1 1/4	1 1/2
Weight lbs.	.75	1.1

FIGURE: 41

- Straight
- Male Union
- Threaded End

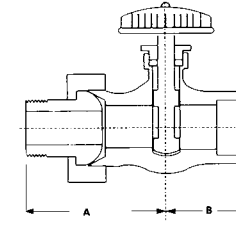


DIMENSIONS:

	1/2	3/4
A	2	2 3/16
B	1	1 1/8
Weight lbs.	.70	1.05

FIGURE: 41S

- Straight
- Male Union
- Sweat End

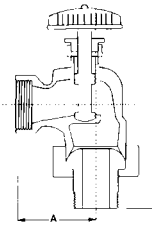


DIMENSIONS:

	1/2	3/4
A	2	2 1/4
B	1	1 1/4
Weight lbs.	.70	1.05

FIGURE: 47

- Reverse Angle
- Male Union
- Threaded End

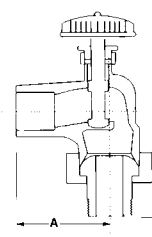


DIMENSIONS:

	1/2	3/4
A	1 3/8	1 5/8
B	2 1/4	2 11/16
Weight lbs.	.75	1.10

FIGURE: 47S

- Reverse Angle
- Male Union
- Sweat End



DIMENSIONS:

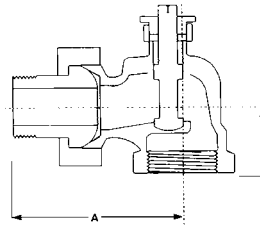
	1/2	3/4
A	1 7/16	1 7/8
B	2 1/4	2 1/2
Weight lbs.	.75	1.10

BRONZE BALANCING FITTINGS

For forced hot water heating systems

FIGURE: 42

- Elbow Fitting
- Male Union
- Threaded End

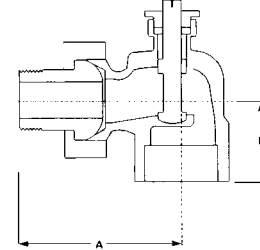


DIMENSIONS:

	1/2	3/4
A	2 3/8	2 13/16
B	1 1/4	1 1/2
Weight lbs.	.75	1.10

FIGURE: 42S

- Elbow Fitting
- Male Union
- Sweat End

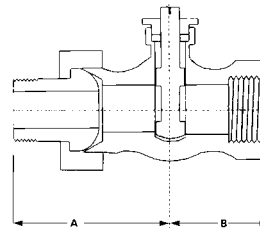


DIMENSIONS:

	1/2	3/4
A	2 3/8	2 3/4
B	1 1/4	1 11/16
Weight lbs.	.75	1.10

FIGURE: 43

- Straight Fitting
- Male Union
- Threaded End

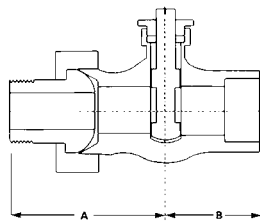


DIMENSIONS:

	1/2	3/4
A	2	2 3/16
B	1	1 1/8
Weight lbs.	.60	.95

FIGURE: 43S

- Straight Fitting
- Male Union
- Sweat End

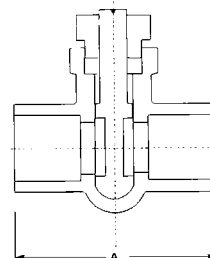


DIMENSIONS:

	1/2	3/4
A	2	2 1/4
B	1	1 1/4
Weight lbs.	.60	.95

FIGURE: 44S

- Straight Fitting
- No Union
- Sweat Ends



DIMENSIONS:

	1/2	3/4
A	1 15/16	2 7/16
Weight lbs.	.35	.55

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