



9A-100 Series

Bronze Uni-Body Heavy Pattern Ball Valve

Threaded, 600 psig WOG, Cold Non-Shock. 150 psig Saturated Steam.

Federal Specification: WW-V-35C, Type: II, Composition: BZ, Style: 3.

MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

FEATURES

- Static grounding devices
- RPTFE seats and seals
- One piece bronze body
- Compact
- Blow-out-proof stem design
- Adjustable packing gland
- Chromium plated ball

STANDARD MATERIAL LIST

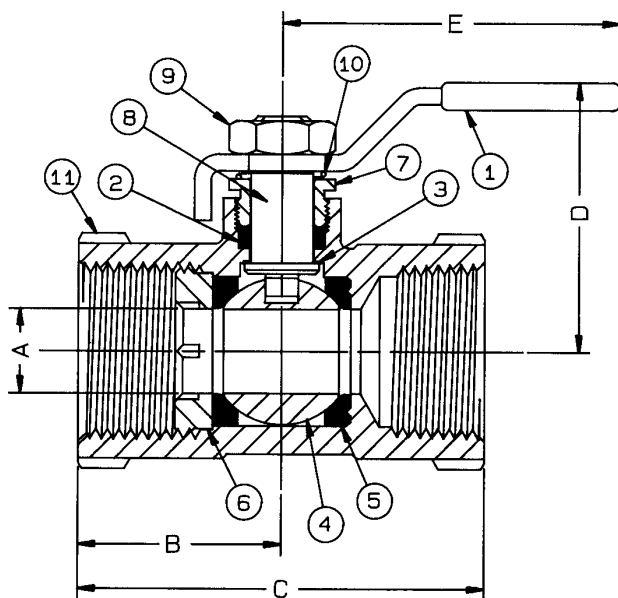
1. Lever and grip	Steel, zinc plated w/vinyl	7. Gland nut	B16
2. Stem packing	RPTFE	8. Stem	B16
3. Stem bearing	RPTFE	9. Lever nut (Screw 1/4" to 1/2")	Steel, zinc plated
4. Ball	B16, chrome plated	10. Ground spring	SS
5. Seat (2)	RPTFE	11. Body	B584-C84400
6. Retainer	B16		

VARIATIONS AVAILABLE:

9A-140 Series (316 SS Ball & Stem)

OPTIONS AVAILABLE:

(SUFFIX)	OPTION	SIZES
-03-	1-1/4" CS Stem Extension	1/4" to 2"
-04-	2-1/4" CS Stem Extension	1/4" to 2"
-05-	Plain Ball	1/4" to 2"
-07-	Steel Tee Handle	1/4" to 2"
-08-	90° Reversed Stem	3/4" to 2"
-10-	SS Lever & Nut	1/4" to 2"
-14-	Side Vented Ball (Uni-Directional)	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 2"
-16-	Chain Lever - Vertical	1" to 2"
-17-	Rough Chrome Plated - Bronze Valves	1/4" to 2"
-20-	Slot Vented Ball (Bi-Directional) - Bronze Valves	1/4" to 2"
-24-	Graphite Packing	1/4" to 2"
-27-	SS Latch-Lock Lever & Nut	1/4" to 2"
-30-	Cam-Lock Handle & Grounded	1/4" to 2"
-32-	SS Tee Handle & Nut	1/4" to 2"
-40-	Cyl-Loc & Grounded	3/4" to 2"
-45-	Less Lever & Nut	1/4" to 2"
-46-	Latch Lock Lever - Lock in Closed Position Only	1/2" to 2"
-47-	SS Oval Latch-Lock Handle & Nut	1/4" to 1-1/4"
-48-	SS Oval Handle	1/4" to 2"
-49-	Assembled Dry	1/4" to 2"
-50-	2-1/4" CS Locking Stem Extension	3/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"
-58-	Chain Lever - Horizontal	1" to 2"
-60-	Grounded Ball & Stem	3/4" to 2"
-P01-	BSP (Parallel) Thread Connection	1/4" to 2"
-T01-	BSPT (Tapered) Thread Connection	1/4" to 2"



BRONZE UNI-BODY HEAVY PATTERN
SATURN® BALL VALVE

NUMBER	SIZE	A	B	C	D	E	Wt.
9A-101-01	1/4"	.37	1.34	2.59	1.64	3.87	.73
9A-102-01	3/8"	.37	1.34	2.59	1.64	3.87	.73
9A-103-01	1/2"	.37	1.34	2.59	1.64	3.87	.73
9A-104-01	3/4"	.50	1.44	2.84	1.78	3.87	1.10
9A-105-01	1"	.63	1.72	3.28	2.02	4.78	1.73
9A-106-01	1-1/4"	.82	1.94	3.84	2.27	4.78	2.92
9A-107-01	1-1/2"	1.00	2.06	4.00	2.70	5.43	3.96
9A-108-01	2"	1.25	2.29	4.56	2.92	5.43	5.97

For Pressure/Temperature Ratings,
Refer to Page M-8, Graph No. 4

C_v FACTORS
87-100 & 88-100 SERIES
87A-100 & 88A-100 SERIES

SIZE	1/2" ⁽²⁾	3/4" ⁽²⁾	1" ⁽²⁾	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10" ⁽¹⁾
FULL OPEN	15	19	47	86	104	234	375	673	1099	1902	3890

C_v FACTORS
87A-200 & 88A-200 SERIES

SIZE	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8" ⁽¹⁾	10" ⁽¹⁾	12" ⁽¹⁾
FULL OPEN	75	195	410	545	1021	2016	4837	9250	15170	22390

(1) Calculated Data
(2) 87-100 & 88-100 Only

C_v FACTORS
9A-100, 90-100, 91-100,
92-100, 93-100 & 96-100 SERIES

SIZE		1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
OPEN	90°	8.3	6.7	5.7	10	16	25	40	62

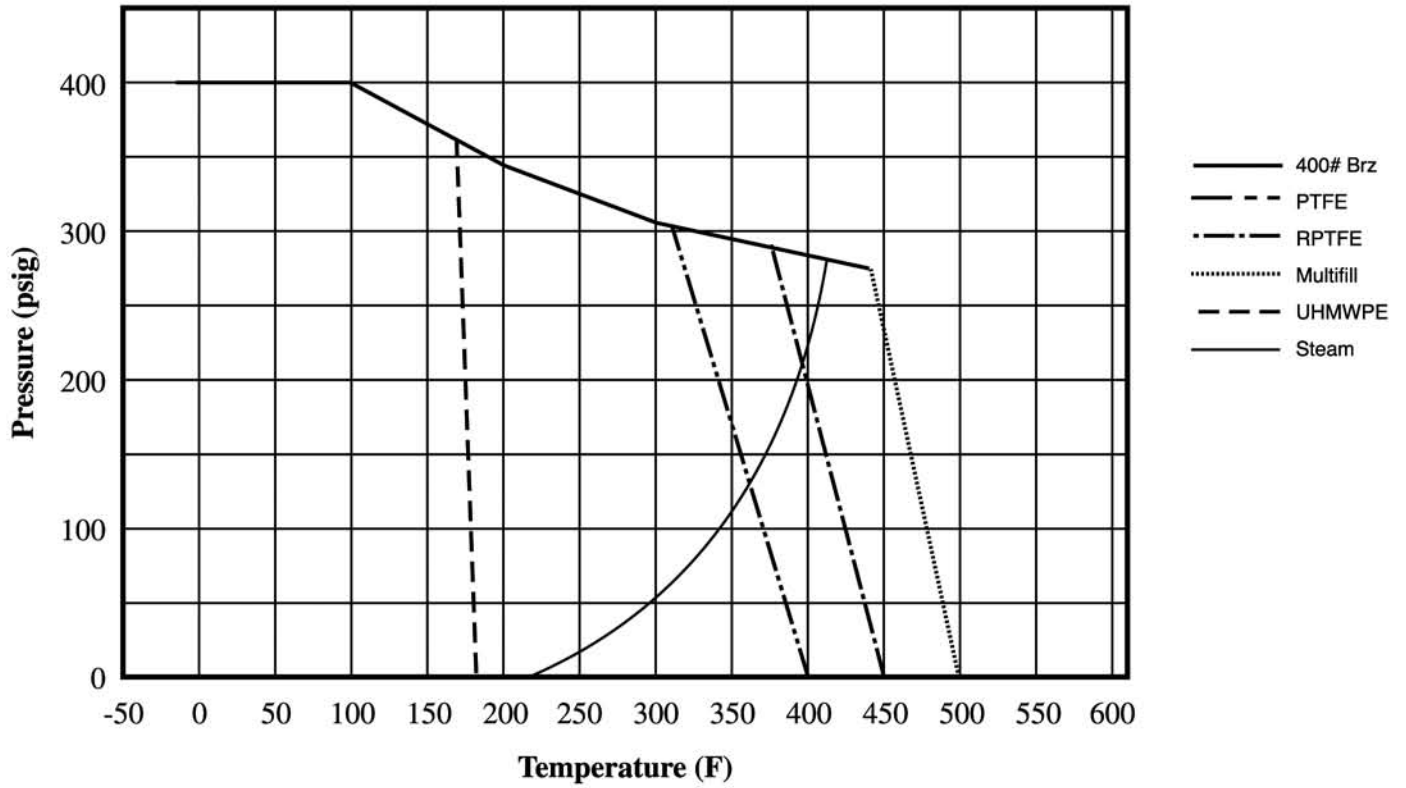
C_v FACTORS
70-600 & 76-600 SERIES

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
FULL OPEN	5.4	12	14	21	34	47

C_v FACTORS
"72" SERIES

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
FULL OPEN	26	48	65	125	170	216

400# Bronze P-T Rating (Graph 3)



600# Bronze P-T Rating (Graph 4)

