



96-100 Series



Stainless Steel Uni-Body Ball Valve

Threaded, 1/4" to 1" 2000 psig WOG, 1-1/4" to 2" 1500 psig WOG, Cold Non-Shock. 150 psig Saturated Steam. Vacuum Service to 29 inches Hg.

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

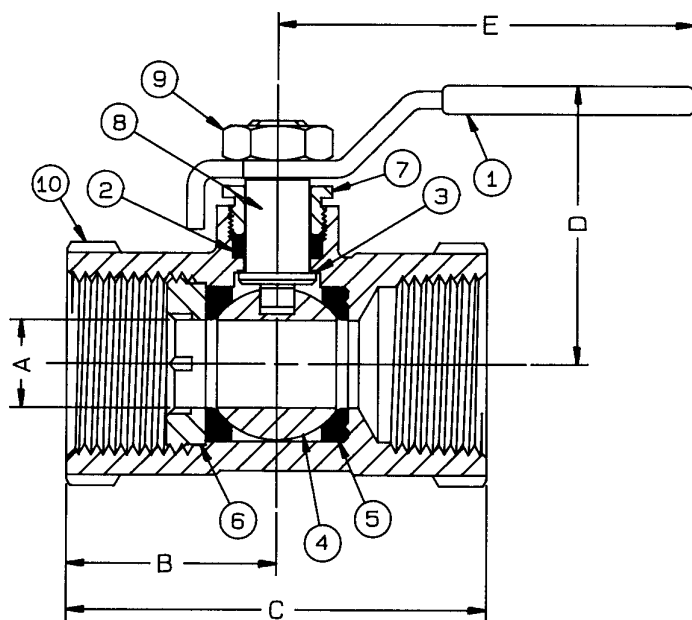
MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

FEATURES

- (-24) Certified to API standard 607, 4th Edition, Class 600 burn
- Investment cast body
- Reinforced seats and seals
- Blow-out-proof stem design
- Adjustable packing gland
- Meets NACE MR-01-75
- Compact

STANDARD MATERIAL LIST

1. Lever and grip	304 SS w/vinyl	6. Retainer	A276-316
2. Stem packing	MPTFE	7. Gland nut	A276-316
3. Stem bearing	RPTFE	8. Stem	A276-316
4. Ball	A276-316	9. Lever nut (Screw 1/4" to 1/2")	18-8 SS
5. Seat (2)	RPTFE	10. Body	A351-CF8M



OPTIONS AVAILABLE:

(SUFFIX)	OPTION	SIZES
-02-	Stem Grounded	1/4" to 2"
-03-	1-1/4" CS Stem Extension	1/4" to 2"
-04-	2-1/4" CS Stem Extension	1/4" to 2"
-07-	Steel Tee Handle	1/4" to 2"
-08-	90° Reversed Stem	3/4" 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"
-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"
-47-	SS Oval Latch-Lock Handle & Nut	1/4" to 1-1/4"
-49-	Assembled Dry	1/4" to 2"
-57-	Oxygen Cleaned	1/4" to 2"
-58-	Chain Lever - Horizontal	1" to 2"
-60-	Grounded Ball & Stem	3/4" to 2"

AAR Approval No. E989054

STAINLESS STEEL UNI-BODY SATURN BALL VALVE

NUMBER	SIZE	A	B	C	D	E	Wt.
96-101-01	1/4"	.38	1.14	2.21	1.64	3.87	.49
96-102-01	3/8"	.38	1.14	2.21	1.64	3.87	.49
96-103-01	1/2"	.38	1.14	2.21	1.64	3.87	.49
96-104-01	3/4"	.50	1.33	2.70	1.78	3.87	.76
96-105-01	1"	.63	1.51	3.03	2.00	4.78	1.21
96-106-01	1-1/4"	.81	1.79	3.62	2.18	4.78	1.95
96-107-01	1-1/2"	1.00	1.95	4.00	2.66	5.43	2.92
96-108-01	2"	1.25	2.28	4.73	2.87	5.43	4.73

For Pressure/Temperature Ratings,
Refer to Page M-12, Graph No. 14
(1/4" to 1")
Refer to Page M-11, Graph No. 12
(1-1/4" to 2")

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

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

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

SIZE	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10" ⁽¹⁾
FULL OPEN	15	19	75	195	410	545	1021	2016	4837	9250	15170

(1) Calculated Data

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

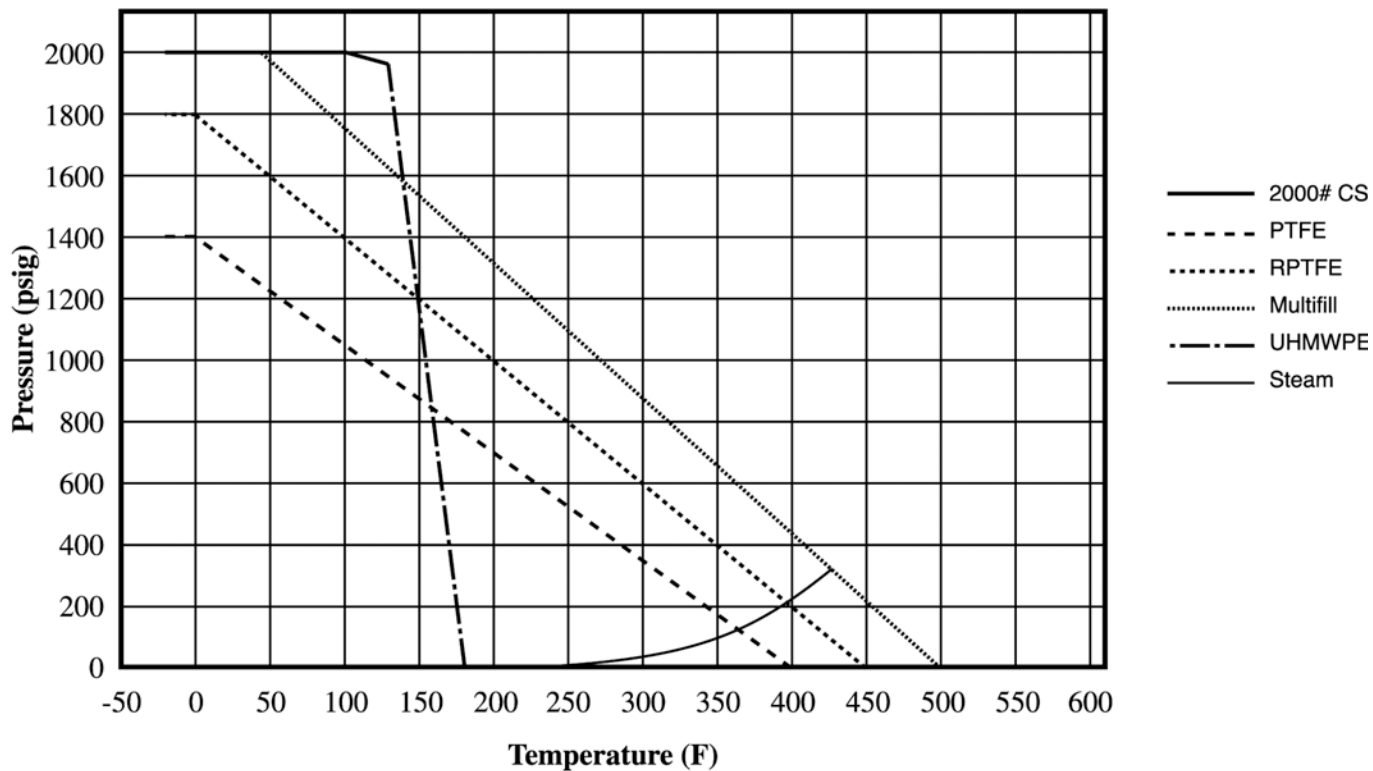
C_v FACTORS
70-600 & 76-600 SERIES

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

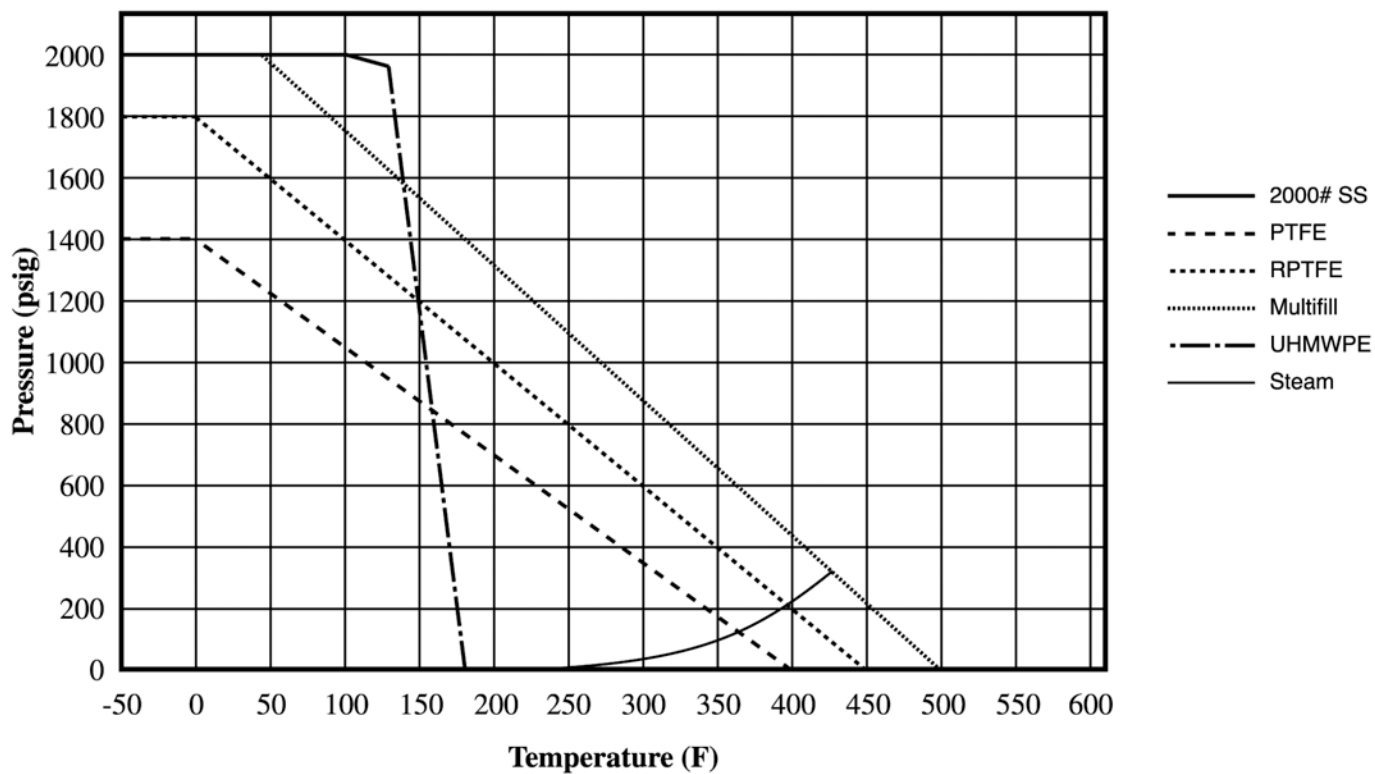
C_v FACTORS
"72" SERIES

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

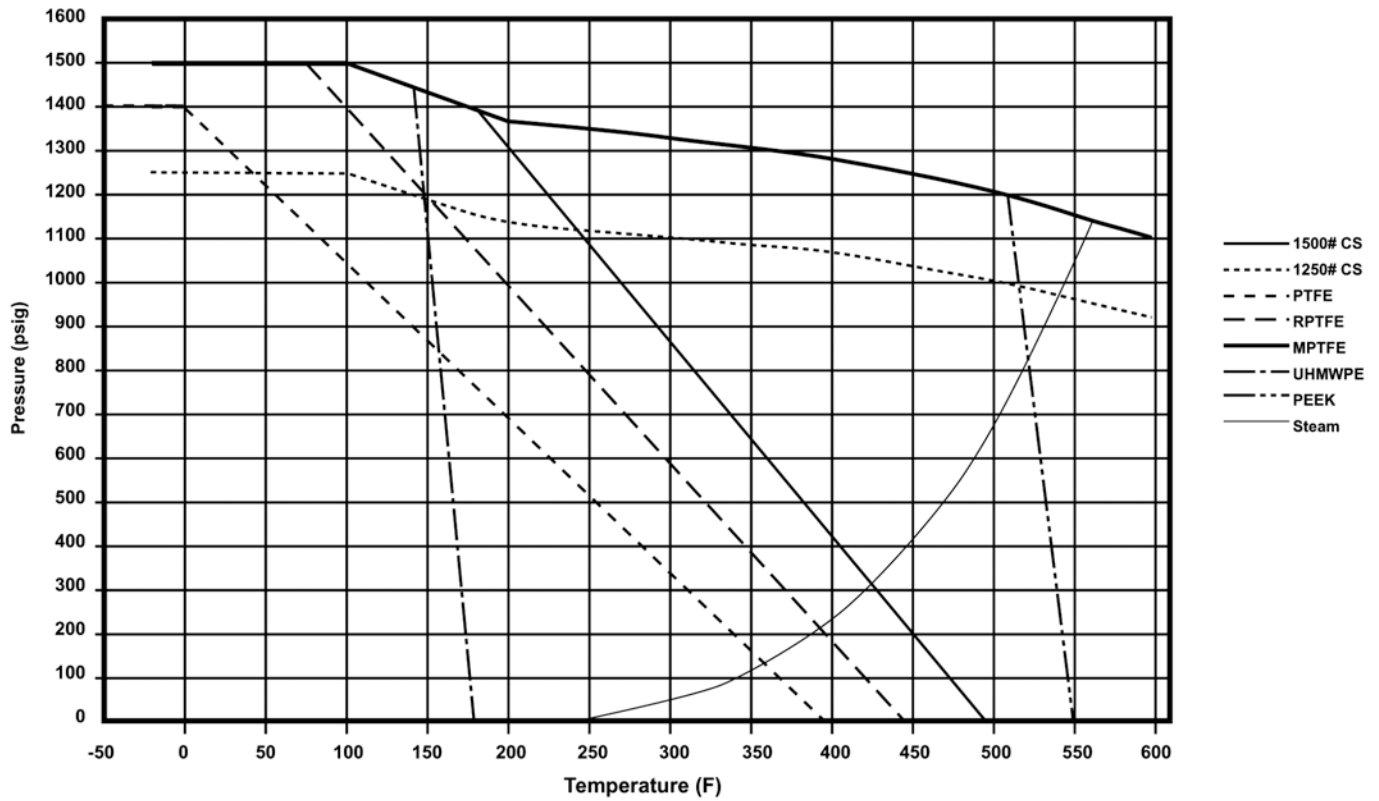
2000# CS P-T Rating (Graph 13)



2000# SS P-T Rating (Graph 14)



1500# CS P-T Rating (Graph 11)



1500# SS P-T Rating (Graph 12)

