

73A-100 Series Carbon Steel Ball Valve

AAR Approved #E999032

Threaded, 1/4" to 1" 2000 psig WOG, 1-1/4" to 2" 1500 psig WOG Cold Non-Shock. 150 psig Saturated Steam. (See referenced P/T chart)

Vacuum Service to 29 inches Hg.

Federal Specification: WW-V-35C, Type: II, Composition: CS, Style: 3. MSS SP-110; Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

FEATURES

- RPTFE seats & packing
- Actuator mounting pads
- Forged construction
- Raised handle stops

- Blow-out-proof stem design
- Adjustable packing gland
- Nitride corrosion protection
- (-24) Fire safe to API 607 4th ed. class 600 burn

RPTFE A105

RPTFE

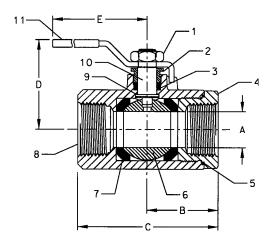
STANDARD MATERIAL LIST

- 1. Lever nut
- 2. Gland nut
- 3. Stem packing
- 4. Retainer
- 5. Body seal
- Steel, zinc plated A108-CS RPTFE A108-CS RPTFE (1/2" to 2")

- 6. Ball
- 7. Seat (2) 8. Body
- 9. Stem bearing
- 10. Stem
- 11. Lever/grip
- A108-CS Steel, zinc plated, with vinyl

A108-CS chrome plated

VARIATIONS AVAILABLE: 73A-140- Series (316 SS Ball & Stem NACE compliant)



CARBON STEEL BALL VALVE

NUMBER	SIZE	A	В	С	D	Е
73A-101-01	1/4"	.37	1.02	2.30	1.72	3.85
73A-102-01	3/8"	.37	1.08	2.37	1.72	3.85
73A-103-01	1/2"	.50	1.18	2.31	1.78	3.85
73A-104-01	3/4"	.68	1.57	3.07	2.07	4.75
73A-105-01	l″	.87	1.73	3.40	2.18	4.75
73A-106-01	1-1/4"	1.00	1.98	3.97	2.72	5.50
73A-107-01	1-1/2"	1.25	2.14	4.32	3.12	7.75
73A-108-01	2″	1.50	2.73	5.44	3.27	7.75

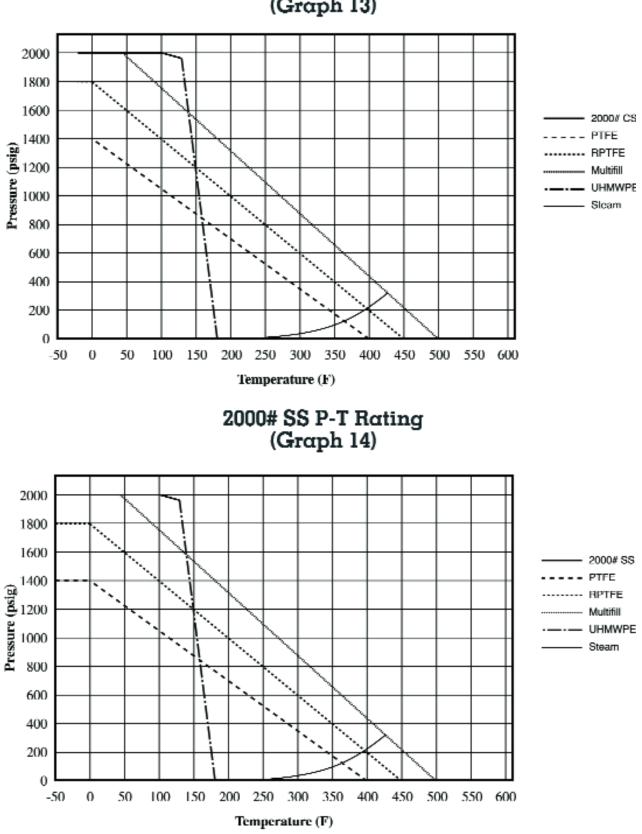
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OPTIONS AVAILABLE:

(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 1-1/2"
-08-	90° Reversed Stem	1/4" to 2"
-10-	SS Lever & Nut	1/4" to 2"
-14-	Vented ball	1/4" to 2"
-15-	Wheel Handle, Steel	1/4" to 1-1/2"
-16-	Chain Lever - Vertical	1/4" to 2"
-21-	UHMWPE Trim (non TFE)	1/4" to 2"
-24-	Graphite Packing	1/4" to 2"
-27-	SS Latch-Lock Lever & Nut	1/4" to 2"
-30-	Cam-Lock & Grounded	1/4" to 2"
-32-	SS Tee Handle & Nut	1/4" to 2"
-35-	VTFE Trim	1/4" to 2"
-39-	SS Hi-Rise Locking Round Handle, SS Nut	1/4" to 2"
-40-	Cyl-Loc & Grounded	1/4" to 2"
-44-	Seal Welded	1/4" to 2"
-45-	Less Lever & Nut	1/4" to 2"
-47-	SS Oval Latch-Lock Handle & Nut	1/4" to 2"
-48-	SS Oval Handle (No Latch) & Nut (No Latch) & Nu	it 1/4" to 2"
-50-	2-1/4" CS Locking Stem Extension	1/4" to 2"
-52-	Two Tack Welds	1/4" to 2"
-56-	Multi-fill Seats	1/4" to 2"
-58-	Chain Lever - Horizontal	1/4" to 2"
-60-	Static Grounded Ball & Stem	1/4" to 2"
-64-	250# Steam Trim	1/4" to 2"
-67-	Cleaned for Industrial Gas - CS Valves	1/4" to 2"
-P01-	BSPP (Parallel) Thread Conn.	1/4" to 2"
-T01-	BSPT (Taperæd) Thread Conn.	1/4" to 2"

For Pressure/Temperature Ratings, Refer to Page M-12, Graph No. 13 (1/4" to 1") Refer to Page M-11, Graph No. 11 (1-1/4" to 2")

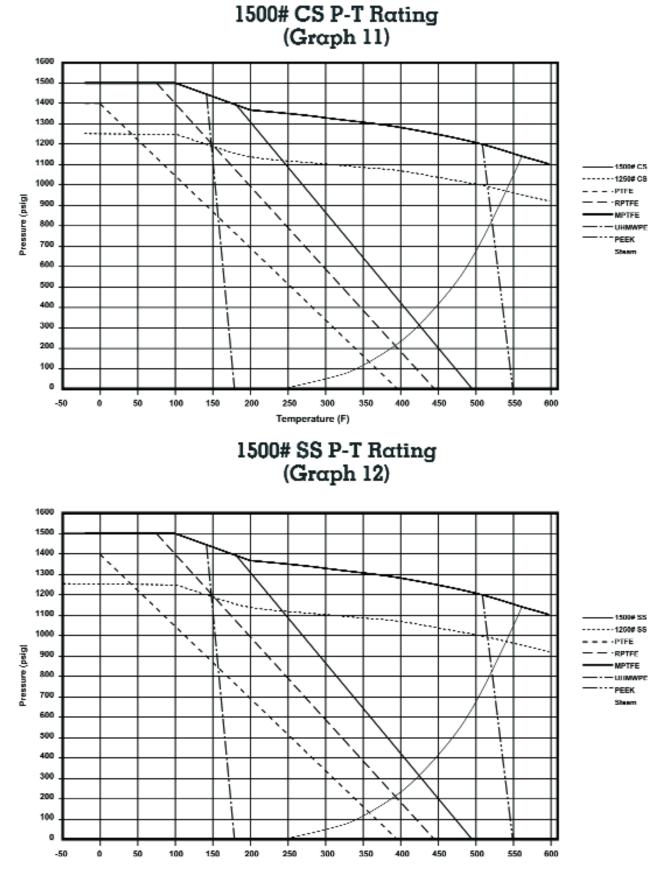
AAR Approval No. E999032 (when -52 is specified)



2000# CS P-T Rating (Graph 13)

M-12

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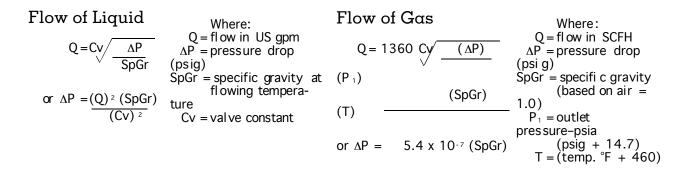
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FLOW DATA

For Apollo[®] and Saturn[®] Ball Valves

The listed Cv "factors" are derived from actual flow testing, in the Apollo® Ball Valve Division, Conbraco Industries, Inc., Pageland, South Carolina. These tests were completed using standard "off the shelf" valves with no special preparation and utilizing standard schedule 40 pipe. It should be understood that these factors are for the valve only and also include the connection configuration. The flow testing is done utilizing water as a fluid media and is a direct statement of the gallons of water flowed per minute with a 1 psig pressure differential across the valve/connection unit. Line pressure is not a factor. Because the Cv is a factor, the formula can be used to estimate flow of most media for valve sizing.



Cv FACTORS SERIES: 70-100, 71-100, 71AR, 73A-100, 74-100, 76-100, 80-100 81-100, 89-100

SIZE	1/4"	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"	3"	4″
OPEN 90°	8.4	7.2	15	30	43	48	84	108	503	370	670

Cv FACTORS	
76F,77,77AR,77D SERIES	3

SIZE		1/4"	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"
OPEN	90°	8.1	15	15	51	68	125	177	389	503

Cv FACTORS 82-100/200, 83R-100/200/700,86R-100/200/700,83-500/600,86-500/600/900 SERIES

SIZE		1/4"	3/8"	1/2″	3/4"	1″	1-1/4"	1-1/2"	2″	2-1/2"	3"	4"
OPEN	90°	8.1	14	26	51	68	120	170	376	510	996	1893

Cv FACTORS
83A/83B, 86A/86B SERIES

SIZE	1/4"	3/8"	1/2"	3/4"	1″	1-1/4"	1-1/2"	2″
OPEN 90	8.1	14	26	51	68	120	170	376