

## 70-200 Series Solder End Bronze Ball Valve



Solder End, 600 psig WOG, Cold Non-Shock. 150 psig Saturated Steam. (See referenced P/T charts) Vacuum Service to 29 inches Hg.

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

- Two-piece body
- Reinforced seats

- Blow-out-proof stem design
- Adjustable packing gland

### STANDARD MATERIAL LIST

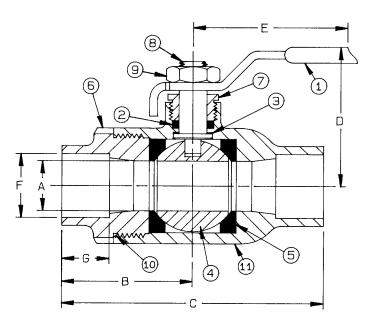
- l. Lever and grip
- 2. Stem packing
- 3. Stem bearing
- 4. Ball
- 5. Seat (2)

6. Retainer

Steel, zinc plated w/vinyl MPTFE RPTFE B16, chrome plated RPTFE B16 (3/8" to 1") B584-C84400 (1-1/4" to 4") 7. Gland nutB168. StemB169. Lever nutSteel, zinc plated10. Body seal<br/>(1-1/4" to 4")PTFE11. BodyB584-C84400

### VARIATIONS AVAILABLE:

70-240 Series (316 SS Ball & Stem)



#### BRONZE BALL VALVE

NUMBER	SIZE	A	В	С	D	Е	F	G	Wt.
70-202-01	3/8"	.37	1.28	2.56	1.75	3.87	.505	.37	.63
70-203-01	1/2"	.50	1.43	2.87	1.75	3.87	.630	.50	.71
70-204-01	3/4"	.68	1.93	3.87	2.12	4.87	.880	.75	1.44
70-205-01	l"	.87	2.25	4.50	2.25	4.87	1.130	.90	1.91
70-206-01	1-1/4"	1.00	2.31	4.62	2.62	5.50	1.380	.96	2.95
70-207-01	1-1/2"	1.25	2.62	5.25	3.06	8.00	1.630	1.09	3.99
70-208-01	2"	1.50	3.18	6.37	3.25	8.00	2.130	1.34	5.71
70-209-01A	2-1/2"	2.00	3.74	7.51	3.72	8.00	2.630	1.48	15.53
70-200-01	3"	2.50	4.12	8.25	4.12	8.00	3.130	1.67	16.74
70-20A-01	4″	3.12	5.65	10.26	5.22	9.94	4.130	2.16	27.93

### **OPTIONS AVAILABLE:**

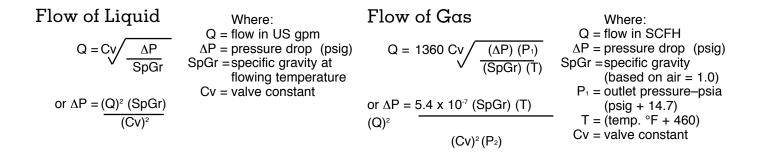
(SUFFIX)	OPTION	SIZES
-02-	Stem Grounded	3/8" to 4"
-03-	1-1/4" CS Stem Extension	3/8" to 3"
-04-	2-1/4" CS Stem Extension	3/8" to 3"
-05-	Plain Ball	3/8" to 3"
-07-	Steel Tee Handle	3/8" to 2"
-08-	90° Reversed Stem	3/8" to 3"
-10-	SS Lever & Nut	3/8" to 3"
-11-	Therma-Seal™ Insulating Tee Handle	3/8" to 2"
-14-	Side Vented Ball (Uni-Directional)	3/8" to 4"
-15-	Wheel Handle, Steel	3/8" to 2"
-16-	Chain Lever - Vertical	3/4" to 2"
-24-	Graphite Packing	3/8" to 3"
-27-	SS Latch-Lock Lever & Nut	3/8" to 3"
-32-	SS Tee Handle & Nut	3/8" to 2"
-35-	VTFE Trim	3/8" to 3"
-39-	SS Hi-Rise Locking Wheel Handle, SS Nut	3/8" to 2"
-45-	Less Lever & Nut	3/8" to 3"
-46-	Latch Lock Lever - Lock in Closed Position On	ly 3/8" to 3"
-47-	SS Oval Latch-Lock Handle & Nut	3/8" to 1"
-48-	SS Oval Handle (No Latch) & Nut	3/8" to 2"
-49-	Assembled Dry	3/8" to 4"
-50-	2-1/4" CS Locking Stem Extension	3/8" to 3"
-56-	Multifill Seats & Packing	3/8" to 3"
-57-	Oxygen Cleaned	3/8" to 4"
-58-	Chain Lever - Horizontal	3/4" to 2"
-60-	Static Grounded Ball & Stem	3/8" to 3"
-63-	NPT x Solder/Socket Weld	3/8" to 4"
-92-	Balancing Stop	3/8" to 2-1/2"

The 70-200 is designed to be soft soldered into lines without disassembly. This allows a tested valve to be installed without disturbing the seats and seals in any way. Soldering temperature not to exceed  $500^\circ$ F.

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

# FLOW DATA For Apollo® Ball Valves

The listed Cv "factors" are derived from actual flow testing, in the Apollo<sup>®</sup> 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, 76AR, 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″
<b>OPEN</b>   90°	8.4	7.2	15	30	43	48	84	108	503	370	670

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

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

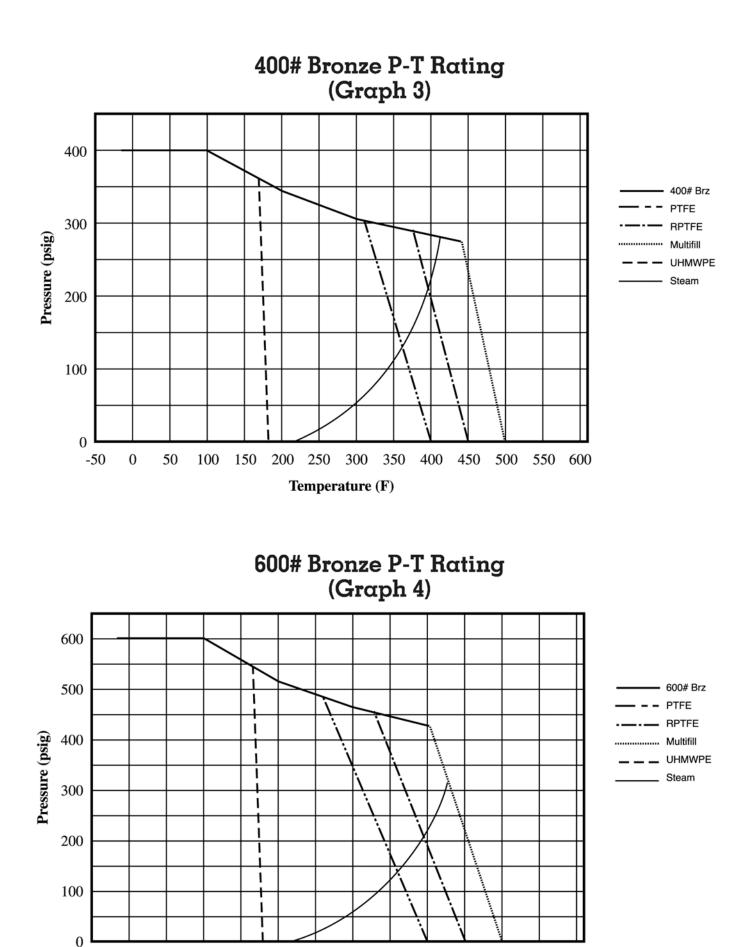
Cv FACTORS

82-100/200, 83R-100/200/700,85R-100/200,86R-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″
<b>OPEN</b>   90°	8.1	14	26	51	68	120	170	376	510	996	1893

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

Γ	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



-50

0

50

100