



# 77C-200 Series Bronze Full Port Ball Valve (Solder) "Contractor" Series

Solder End, 600 psig CWP, 150 psig SWP. (See referenced P/T chart) Vacuum Service to 29 inches Hg. Federal Specification: WW-V-35C, Type: II, Composition: BZ, Style: 3. MSS SP-110 compliant.

#### **FEATURES**

- American Made Bronze Castings
- Machined Solid Chrome-Plated Ball
- Multi-Fill PTFE Seats & Seals

B16 Brass

MPTFE

MPTFE

B16 Brass

Zinc Plated Steel

- Blow-out-proof stem design
- Adjustable packing gland
- Full Port Design Through 2-1/2"
- Available With Stainless Steel Ball and Stem As 77C-240 Series

#### STANDARD MATERIAL LIST

- l. Gland
- 2. Nut
- 3. Packing
- 4. Seat
- 5. Stem

\*3/8" - 1/2" B16 Brass

### VARIATIONS AVAILABLE:

77C-240 Series (316 SS Ball & Stem) 77C-250 Series Balancing Stop 77CLF-200 Series Lead-Free\* Materials

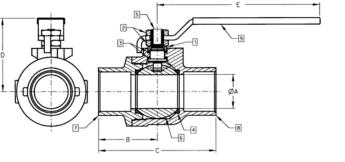
\* 0.25 max.lead contaent of wetted surfaces by weighted average.



B16 (chromium plated) B584 Bronze\* B584 Bronze Zinc Plated Steel/Vinyl

## **OPTIONS AVAILABLE:**

(SUFFIX)	OPTION	SIZES
-04-	2-1/4" CS Stem Extension	3/8" to 2"
-07-	Steel Tee Handle	3/8" to 2"
-11-	Therma-Seal™ Insulating Tee Handle	1/4" to 2"
-27-	SS Latch-Lock Lever & Nut	3/8" to 2"
-47-	SS Oval Latch-Lock Handle & Nut	3/8" to 2"
-94-	2-1/4" Stem Ext. & Balancing Stop	1/4" to 2"



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

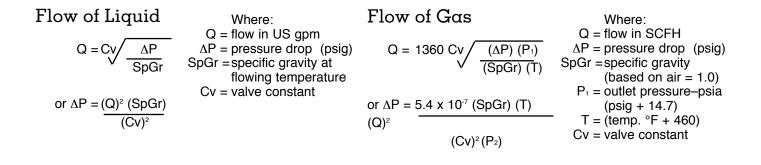
#### BRONZE FULL PORT BALL VALVE

NUMBER	SIZE	A	В	С	D	Е	Cv	WT.**
77C-202	3/8	0.37	1.30	2.21	1.76	3.74	7	0.6
77C-203	1/2	0.50	1.41	2.58	1.79	3.74	16	0.6
77C-204	3/4	0.75	1.64	3.03	2.00	4.88	36	1.0
77C-205	1	1.00	1.92	3.61	2.19	4.88	68	1.6
77C-206	1-1/4	1.25	2.36	4.44	3.13	7.06	125	3.9
77C-207	1-1/2	1.50	2.63	4.89	3.29	7.06	177	4.3
77C-208	2	2.00	3.17	6.06	3.83	7.06	389	7.6
77C-209	2-1/2	2.50	3.77	7.14	4.51	8.06	503	15.9

\*\*Weights are based on standard configuration 77C-20X-01.

## 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

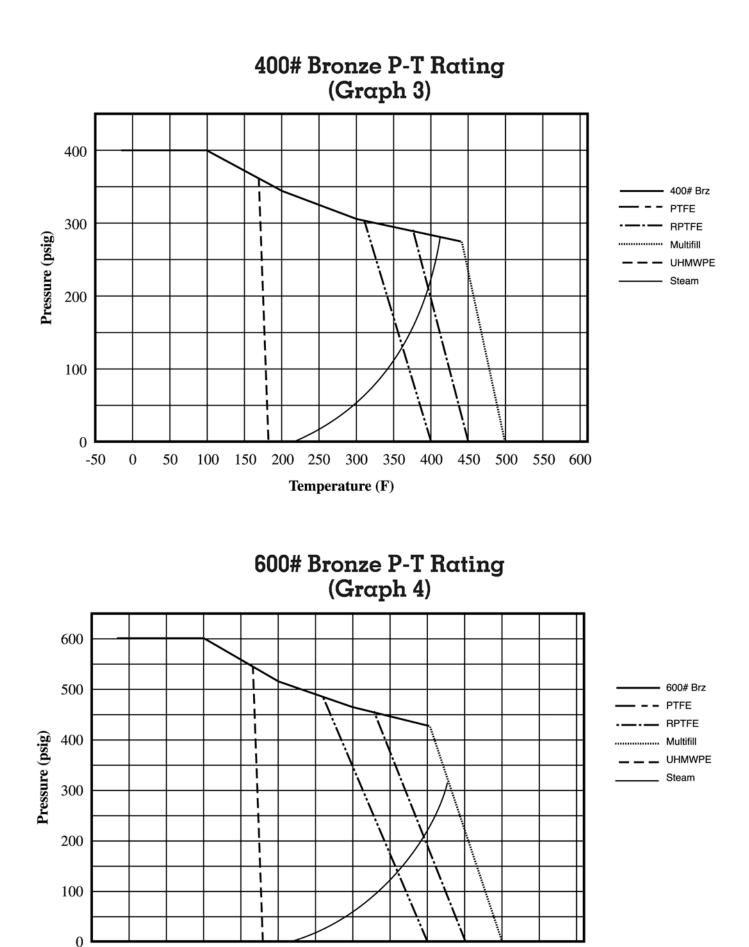
Cv FACTORS

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