

77C-100 Series Bronze Full Port Ball Valve (Threaded)

Threaded, 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
- Blow-out-proof stem design
- Adjustable packing gland
- Full Port Design Through 2"

STANDARD MATERIAL LIST

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

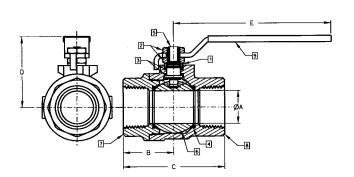
B16 Brass Zinc Plated Steel MPTFE MPTFE B16 Brass

- 6. Ball 7. Retainer 8. Body 9. Handle
- B16 (chromium plated) B584 Bronze* B584 Bronze Zinc Plated Steel/Vinyl

*1/4" - 1/2" B16 Brass

VARIATIONS AVAILABLE:

77C-140 Series(316 SS Ball & Stem)77C-149316 SS Ball & Stem Standard77C-150Balancing Stop



OPTIONS AVAILABLE:

(SUFFIX)	OPTION	SIZES
-04-	2-1/4" CS Stem Extension	1/4" to 2"
-07-	Steel Tee Handle	1/4" to 2"
-27-	SS Latch-Lock Lever & Nut	1/4" to 2"
-47-	SS Oval Latch-Lock Handle & Nut	1/4" to 2"

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

BRONZE FULL PORT BALL VALVE

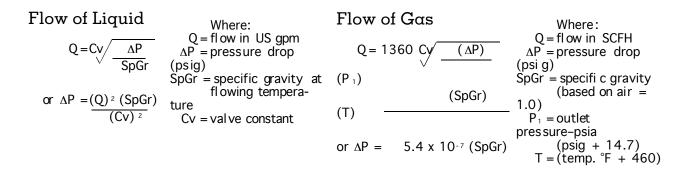
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NUMBER	SIZE	A	В	С	D	Е	Cv	Wt.**
77C-101	1/4	0.37	0.95	1.97	1.76	3.74	4.5	0.6
77C-102	3/8	0.37	1.07	2.09	1.76	3.74	7.2	0.6
77C-103	1/2	0.50	1.15	2.25	1.79	3.74	15.5	0.6
77C-104	3/4	0.75	1.32	2.65	2.00	4.88	35.6	1.1
77C-105	1	1.00	1.53	3.07	2.19	4.88	68.1	1.8
77C-106	1-1/4	1.25	2.04	4.08	3.13	7.06	125.0	4.4
77C-107	1-1/2	1.50	2.21	4.43	3.29	7.06	177.0	5.9
77C-108	2	2.00	2.76	5.29	3.83	7.06	389.0	11.4
77C-149	2-1/2	2.50	3.12	6.37	4.51	8.06	503.0	17.1

**Weights are based on standard configuration 77C-10X-01.

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, 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″
OPEN 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"
OPEN 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″
OPEN	90°	8.1	14	26	51	68	120	170	376	510	996	1893

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

