

# 77F-100 Series

Full Port Threaded End Brass Ball Valve



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist:	

## DESCRIPTION

The Apollo 77F-100 Series is a full port forged brass ball valve suitable for a wide range of flow control applications including HVAC, fuel gas, fire protection, irrigation etc. These NPT threaded, 2-piece valves combine reliable operation with maximum economy. Valves include most pertinent agency approvals. Proudly Made in the USA.

## FEATURES

- Heavy Pattern Forged Design
- Corrosion Resistant Materials
- Full-Port Flow
- Premium RPTFE Seats and Packing
- Adjustable Stem Packing
- Blowout-Proof Stem
- 2-1/2" - 4" Sizes Now Feature 316SS Ball and Stem (Standard)
- Silicone Free Assembly
- 100% Factory Tested
- **Made in USA, ARRA Compliant**

## PERFORMANCE RATING

- Rating: 600 CWP (1/4" - 2")
- Rating: 400 CWP (2-1/2" - 4")
- Steam Rating: 150 psi SWP
- Temperature Range: 0°F - 400°F
- Vacuum Service to 29 in. Hg

*Not intended for potable water in USA*

## OPTIONS

- (-01) Standard Lever 1/4" - 2-1/2"
- (-04) 2-1/4" Stem Extension 1/4" - 2"
- (-07) Tee Handle 1/4" - 2"
- (-10) Stainless Steel Lever & Nut 1/4" - 2"
- (-11) Therma-Seal™ Insulating Tee Handle 1/4" - 2"
- (-27) Locking Handle SS 1/4" - 2-1/2"
- (77F140 Series) - SS Ball & Stem
- (77FLF Series) Lead Free (0.25% Lead Max)

## STANDARD MATERIALS LIST

<b>BODY</b>	Brass, ASTM B283 alloy C37700
<b>SEAT</b>	RPTFE
<b>BALL</b>	Brass, ASTM B16, C36000 or B283, C37700 Chrome Plated 316 SS (2-1/2" - 4")
<b>STEM PACKING</b>	RPTFE
<b>NUT</b>	Corrosion Resistant Plated Steel
<b>STEM</b>	Brass, ASTM B16, C36000 316 SS (2-1/2" - 4")
<b>RETAINER</b>	Brass, ASTM B283 alloy C37700 or ASTM B16, C3600
<b>HANDLE</b>	Plated Steel / Insulated Polyvinyl
<b>GLAND</b>	Brass, ASTM B16, C36000

## APPROVALS

- MSS SP-110
- IAPMO/ANSI Z1157

## CSA LISTED

- CGA 3.16 (125 PSI)
- CGA CR91-002 (5 PSI)
- ANSI Z21.15/CSA 9.1 (1/2 PSI)
- ASME B16.44 (5 PSI)
- ASME B16.33 (125 PSI) (1/2" - 2")

## UL LISTED

- UL 125 - Flow Control Valves for LP-Gas, Guide YSDT to 250 psi max
- UL 258 - Fire Protection Trim & Drain, Guide VQGU to 175psi max (1/4" - 2")
- UL 842 - Valves for Flammable Fluids, Guides YRBX, YRPV, and MHKZ to 250 psi max. (1/4" - 4" NPT only)
- UL 1477 - Compressed Gas Shutoff Valves, Guide YQNZ to 250 psi max (1/4" - 4" NPT only)

*\*Gas approvals apply to NPT models only*

## DIMENSIONS

PART NUMBER	SIZE (IN.)	DIMENSIONS (IN.)					WT. (LB.)
		A	B	C	D	E	
77F-101-01	1/4"	0.38	0.81	1.62	1.61	2.85	0.3
77F-102-01	3/8"	0.38	0.85	1.70	1.61	2.85	0.3
77F-103-01	1/2"	0.50	1.14	2.25	1.66	2.85	0.5
77F-104-01	3/4"	0.75	1.29	2.57	1.91	3.86	0.8
77F-105-01	1"	1.00	1.60	3.20	2.11	3.86	1.3
77F-106-01	1-1/4"	1.25	1.73	3.46	2.44	4.75	2.1
77F-107-01	1-1/2"	1.50	2.00	4.00	2.91	5.42	3.2
77F-108-01	2"	2.00	2.37	4.74	3.69	7.77	5.6
77F-149-01	2-1/2"	2.50	2.99	5.98	4.14	7.77	12.8
77F-140-01	3"	3.00	3.52	7.05	5.03	9.92	19.7
77F-14A-01	4"	4.00	3.83	7.65	5.70	14.78	25.5

