

## 77V series

press end forged ball valve | small diameter 1/2" - 2"



"Apollo" Press



job name:	
job location:	
engineer:	
contractor:	
tag:	
po#:	
rep:	
wholesale dist.:	

**description**

the Apollo Press® 77V series two-piece press ball valve is ideal for installation in heating, cooling and non-potable plumbing applications. features leak before press® technology and 300 psig maximum working pressure. proudly made in the USA.

**features**

- 2 piece, heavy pattern forged design
- full-port flow
- superior RPTFE seats and packing
- adjustable stem packing
- leak before press® technology
- blowout-proof stem
- corrosion resistant materials
- silicone free assembly
- 100% factory tested
- made in USA, ARRA compliant

**performance rating<sup>†</sup>**

- maximum operating pressure: 300 psi
- temperature range: 0°F - 250°F

<sup>†</sup>Apollo Press® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. press connectors not suitable for flammable gas service.

**approvals**

- MSS SP-110 ball valves
- IAPMO/ANSI Z1157 ball valves
- IAPMO PS-117 press connections

**approved applications**

- water, chilled and hot: 33° - 250°F
- hydronic heating (90% glycol max)
- low pressure steam, 15 psi max
- not suitable for flammable gas service
- not compatible with soft annealed copper tubing

not intended for potable water in USA

**options**

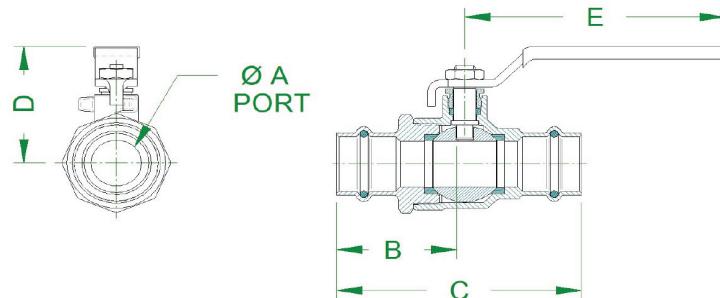
- (-01) standard lever handle
- (-04) 2-1/4" stem extension
- (-07) tee handle
- (-10) SS handle and nut
- (-11) therma-seal™ insulating tee handle
- (-27) locking handle SS
- 77V140 series - SS vented ball & stem
- (77VLF series) lead free (0.25% lead max)

**standard materials list**

<b>body</b>	forged brass, C37700
<b>retainer</b>	forged brass, C37700
<b>ball</b>	brass, ASTM B16, C36000 or B283, C37700 chrome plated
<b>stem</b>	forged brass, C37700
<b>gland nut</b>	brass, ASTM B16, C36000
<b>seats</b>	RPTFE
<b>stem packing</b>	RPTFE
<b>handle</b>	plated steel / insulated polyvinyl
<b>stem nut</b>	corrosion resistant plated steel
<b>sealing element</b>	EPDM

**dimensions**

model number	size (in.)	dimensions (in.)					wt. (lb.)
		A	B	C	D	E	
77V-103-01	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77V-104-01	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77V-105-01	1"	1.00	2.20	3.88	2.11	3.86	1.2
77V-106-01	1-1/4"	1.25	2.23	4.22	2.44	4.75	2.3
77V-107-01	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77V-108-01	2"	2.00	3.40	6.57	3.69	7.77	6.0





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## description

The Apollo Press® 77V140 Series two-piece press ball valve with stainless steel ball and stem is ideal for installation in heating, cooling and non-potable plumbing. Features Leak Before Press® technology and 300 psig maximum working pressure. Proudly Made in the USA.

## features

- 2 piece, heavy pattern forged design
- full-port flow
- adjustable stem packing
- fast, reliable, economical press installation
- Ridgid® XLC Press Tool Compatible (2-1/2" - 4")
- Leak Before Press® Technology
- blowout-proof stem
- corrosion resistant materials
- silicone free assembly
- 100% factory tested
- 316 SS Ball and stem option (77V-140)
- made in USA, ARRA compliant

## performance rating<sup>†</sup>

- maximum operating pressure: 300 psi
- temperature range: 0°F - 250°F

<sup>†</sup>Apollo Press® connectors are designed for direct mechanical connection to ASTM B88-Type K, L, and M copper tubing in the hard drawn condition. Press connectors are not suitable for steam or flammable gas service.

## approvals

- MSS SP-110 ball valves
- IAPMO/ANSI Z1157 ball valves
- directive 2011/65/CE (RoHS)

## approved applications

- water, chilled and hot: 33° - 250°F
- hydronic heating (90% glycol max)
- low pressure steam, 15 psi max
- not suitable for flammable gas service
- not compatible with soft annealed copper tubing

not intended for potable water in USA

## standard materials list

<b>body</b>	lead free brass, C27451
<b>seat</b>	RPTFE
<b>ball</b>	stainless steel, ASTM A276 Type 316
<b>stem packing</b>	RPTFE
<b>nut</b>	corrosion resistant plated steel
<b>stem</b>	stainless steel, ASTM A276 Type 316
<b>retainer</b>	lead free brass, C27451
<b>handle</b>	plated steel / insulated polyvinyl
<b>gland</b>	brass, ASTM B16, C36000
<b>o-ring seals</b>	EPDM

## options

- (-01) standard lever handle
- (-04) 2-1/4" stem extension 1/2" - 2-1/2"
- (-07) tee handle
- (-11) Therma-Seal™ insulating tee handle
- (-27) locking handle SS 1/2" - 2-1/2"
- (77VLF series) lead free (0.25% lead max)

## dimensions

model number	size (in.)	dimensions (in.)					wt. (lb.)
		A	B	C	D	E	
77V-143-01	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77V-144-01	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77V-145-01	1"	1.00	2.39	4.07	2.11	3.86	1.2
77V-146-01	1-1/4"	1.25	2.40	4.39	2.44	4.75	2.3
77V-147-01	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77V-148-01	2"	2.00	3.40	6.57	3.69	7.77	6.0
77V-149-01	2-1/2"	2.50	4.26	8.04	4.13	7.77	12.0
77V-140-01	3"	3.00	5.10	9.45	5.03	9.92	19.5
77V-14A-01	4"	4.00	5.20	10.35	5.70	14.78	26.0

