



submittal
sheet

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†

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

†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

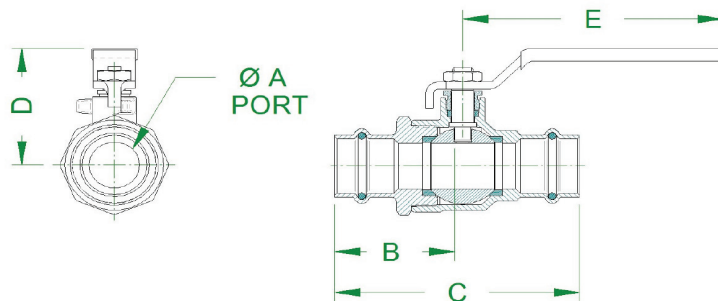
- (-01) standard lever handle
- (-04) 2-1/4" stem extension
- (-07) tee handle
- (-10) SS handle and nut
- (-11) therma-seal™ insulating tee handle
- (-27) locking handle SS
- 77V140 series - SS vented ball & stem
- (77VLF series) lead free (0.25% lead max)

standard materials list

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





submittal
sheet

77V-140 series

press end forged ball valve stainless steel ball & stem



"Apollo" Press



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

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†

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

†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

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)

standard materials list

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

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

