

## data sheet

## 77FLF-100 series

full port threaded end DZR brass ball valve  
 1/4" - 2" | lead-free



### description

The "Apollo"® 77FLF-100 series 1/4" to 2" is a lead-free DZR brass full port ball valve suitable for light duty plumbing and heating applications, including potable water. These NPT threaded, 2-piece valves combine reliable operation with maximum economy. Valves include most pertinent agency approvals. Proudly manufactured in our South Carolina facilities.

### size range    connections    configurations

- 1/4" - 2"
- threaded
- 77FLF-140 series - ss latch-lock lever & nut

### approvals

- MSS SP-110
- IAPMO/ANSI Z1157
- NSF/ANSI/CAN 61 - water quality
- NSF/ANSI 372 - lead-free
- Buy American Act (BAA)
- Build America Buy America (BABA) Act

### FM listed approvals

- FM 1140 (<175 psig) (1/4" - 2")
- FM 1140 (<175 psig) (1/4" - 2")

### CSA listed approvals

- CGA CR91-002 (5 psig)
- FM 1140 (<175 psig) (1/4" - 2")
- ANSI Z21.15/CSA 9.1 (1/2 psig)
- ASME B16.44 (5 psig)
- ASME B16.33 (125 psig)

### UL listed approvals

- UL 125 - flow control valves for LP-gas, guide YSDT to 250 psig max
- UL 258 - fire protection trim & drain, guide VQGU to 175 psig max
- UL 842 - valves for flammable fluids, guides YRBX, YRPV, and MHKZ to 250 psig max
- UL 1477 - compressed gas shut off valves, guide YQNZ to 250 psig max

\*gas approvals apply to NPT models only



this specification is provided for reference only. we reserve the right to change any portion of this specification without notice and without incurring obligation to make such changes to Aalberts integrated piping systems products previously or subsequently sold.

### Aalberts integrated piping systems

10715 Sikes Place / suite 200 / Charlotte / NC / 28277  
[aalberts-ips.us](http://aalberts-ips.us)

### features

- lead-free materials and approvals
- heavy pattern forged design
- corrosion resistant materials
- full-port flow
- premium RPTFE seats and packing
- adjustable stem packing
- blowout-proof stem
- dezincification resistant materials
- silicone free assembly
- 100% factory tested
- manufactured in the USA - BAA and BABA compliant

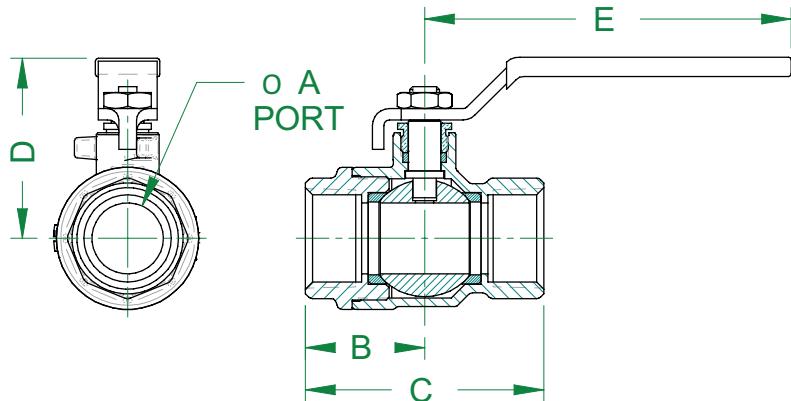
component	material
body	lead-free brass, ASTM C27451
retainer	brass ASTM B16, C36000 or B283, C37700
ball	stainless steel, ASTM A276-316
seat (2)	RPTFE
stem	lead-free brass, ASTM C27451 stainless steel, ASTM A276-316 (2 1/2" - 4")
gland	lead-free brass, ASTM C27451
stem packing	RPTFE
handle	plated steel/insulated polyvinyl
nut	corrosion resistant plated steel

### performance rating

CWP	SWP	temperature	vacuum service
600 psig	150 psig	400°F (maximum temperature)	29 in. Hg

job name	
job location	
engineer	
contractor	
tag	
PO#	
rep	
wholesaler dist	

## data sheet



## dimensions

part number	size	a	b	c	d	e	weight
77FLF-101-01	1/4"	0.38"	0.81"	1.62"	1.61"	2.85"	0.30 lbs
77FLF-102-01	5/16"	0.38"	0.85"	1.70"	1.61"	2.85"	0.30 lbs
77FLF-103-01	1/2"	0.50"	1.14"	2.25"	1.66"	2.85"	0.50 lbs
77FLF-104-01	3/4"	0.75"	1.29"	2.57"	1.91"	3.86"	0.80 lbs
77FLF-105-01	1"	1.00"	1.61"	3.20"	2.11"	3.86"	1.30 lbs
77FLF-106-01	1 1/4"	1.25"	1.73"	3.46"	2.44"	4.75"	2.10 lbs
77FLF-107-01	1 1/2"	1.50"	2.00"	4.00"	2.91"	5.42"	3.20 lbs
77FLF-108-01	2"	2.00"	2.37"	4.74"	3.69"	7.77"	5.60 lbs

## options

option	component	size
(-01)	standard lever	all
(-04)	2 1/4" stem extension (carbon steel, zinc plated)	1/4" - 2 1/2"
(-07)	steel tee handle	1/4 - 2"
(-10)	stainless steel lever & nut	1/4 - 2"
(-11)	Therma-Seal™ insulating tee handle	1/4 - 2"
(-27)	ss latch-lock lever & nut	1/4" - 2 1/2"

## data sheet

## 77FLF-140 series

full port threaded end DZR brass ball valve  
2 1/2" - 4" | lead-free



### description

The "Apollo"® 77FLF-100 series 2 1/2" to 4" is a lead-free DZR brass full port ball valve suitable for light duty plumbing and heating applications, including potable water. These NPT threaded, 2-piece valves combine reliable operation with maximum economy. Valves include most pertinent agency approvals. Proudly manufactured in our South Carolina facilities.

### size range    connections    configurations

- 2 1/2" to 4"
- threaded
- 77FLF-140 series - ss latch-lock lever & nut (standard)

### approvals

- MSS SP-110
- IAPMO/ANSI Z1157
- NSF/ANSI/CAN 61 - water quality
- NSF/ANSI 372 - lead-free
- Buy American Act (BAA)
- Build America Buy America (BABA) Act

### CSA listed approvals

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

### UL listed approvals

- UL 125 - flow control valves for LP-gas, guide YSDT to 250 psig max
- UL 842 - valves for flammable fluids, guides YRBX, YRPV, and MHKZ to 250 psig max
- UL 1477 - compressed gas shut off valves, guide YQNZ to 250 psig max

\*gas approvals apply to NPT models only

### features

- lead-free materials and approvals
- heavy pattern forged design
- corrosion resistant materials
- full-port flow
- premium RPTFE seats and packing
- adjustable stem packing
- blowout-proof stem
- 316 stainless steel ball and stem
- dezincification resistant materials (DZR)
- silicone free assembly
- 100% factory tested
- manufactured in the USA - BAA and BABA compliant

component	material
body	lead-free brass, ASTM C27451
retainer	brass ASTM B16, C36000 or B283, C37700
ball	stainless steel, ASTM A276-316
seat (2)	RPTFE
stem	lead-free brass, ASTM C27451 stainless steel, ASTM A276-316 (2 1/2" - 4")
gland	lead-free brass, ASTM C27451
stem packing	RPTFE
handle	plated steel/insulated polyvinyl
nut	corrosion resistant plated steel

### performance rating

CWP	SWP	temperature	vacuum service
400 psig	150 psig	400°F (maximum temperature)	29 in. Hg



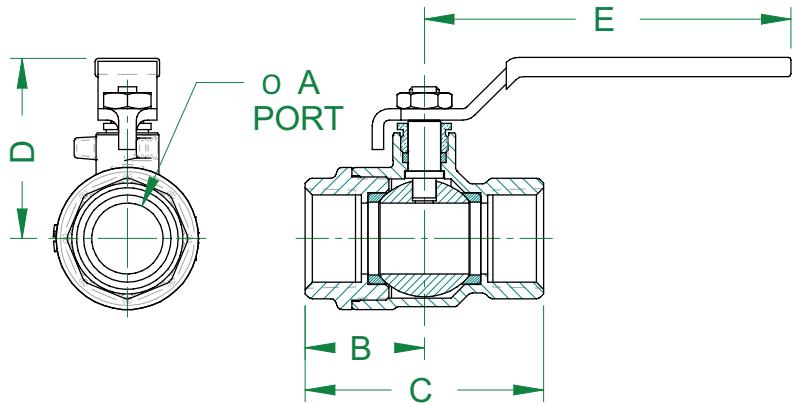
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aalberts-ips.us

job name	
job location	
engineer	
contractor	
tag	
PO#	
rep	
wholesaler dist	

## data sheet



## dimensions

part number	size	a	b	c	d	e	weight
77FLF-149-01	2 1/2"	2.50"	2.99"	5.98"	4.14"	7.77"	12.80 lbs
77FLF-140-01	3"	3.00"	3.52"	7.05"	5.03"	9.92"	19.70 lbs
77FLF-14A-01	4"	4.00"	3.83"	7.65"	5.70"	14.78"	25.50 lbs

## options

option	component	size
(-01)	standard lever	all
(-04)	2 1/4" stem extension (carbon steel, zinc plated)	1/4" - 2 1/2"
(-07)	steel tee handle	1/4 - 2"
(-10)	stainless steel lever & nut	1/4 - 2"
(-11)	Therma-Seal™ insulating tee handle	1/4 - 2"
(-27)	ss latch-lock lever & nut	1/4" - 2 1/2"