

## data sheet

## 77FLF-100 series

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



### 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

### 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

- 1/4" - 2"

### connections

- threaded

### configurations

- 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")

### 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



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### Aalberts integrated piping systems

10715 Sikes Place / suite 200 / Charlotte / NC / 28277

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### 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

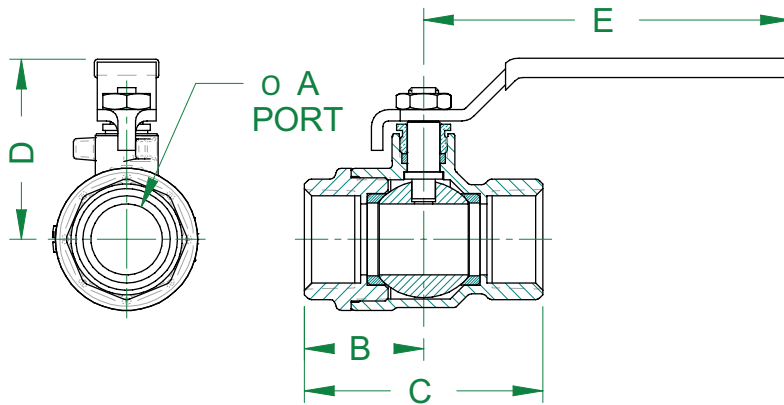
tag

PO#

rep

wholesaler dist

## data sheet



### dimensions

part number	size	a	b	c	d	e	weight
77FLF-101-01	¼"	0.38"	0.81"	1.62"	1.61"	2.85"	0.30 lbs
77FLF-102-01	⅜"	0.38"	0.85"	1.70"	1.61"	2.85"	0.30 lbs
77FLF-103-01	½"	0.50"	1.14"	2.25"	1.66"	2.85"	0.50 lbs
77FLF-104-01	¾"	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 ¼"	1.25"	1.73"	3.46"	2.44"	4.75"	2.10 lbs
77FLF-107-01	1 ½"	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 ¼" stem extension (carbon steel, zinc plated)	¼" - 2 ½"
(-07)	steel tee handle	¼" - 2"
(-10)	stainless steel lever & nut	¼" - 2"
(-11)	Therma-Seal™ insulating tee handle	¼" - 2"
(-27)	ss latch-lock lever & nut	¼" - 2 ½"

## data sheet

## 77FLF-140 series

full port threaded end DZR brass ball valve  
2 ½" - 4" | lead-free



### 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

### description

The "Apollo"® 77FLF-100 series 2 ½" 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

- 2 ½" to 4"

### connections

- threaded

### configurations

- 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 (½ 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

### 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 ½" - 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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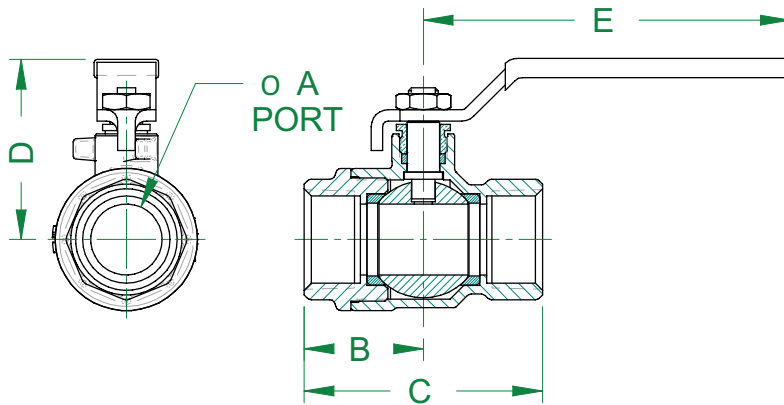
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job name	
job location	
engineer	
contractor	
tag	
PO#	
rep	
wholesaler dist	

## data sheet



## dimensions

part number	size	a	b	c	d	e	weight
77FLF-149-01	2 ½"	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 ¼" stem extension (carbon steel, zinc plated)	¼" - 2 ½"
(-07)	steel tee handle	¼" - 2"
(-10)	stainless steel lever & nut	¼" - 2"
(-11)	Therma-Seal™ insulating tee handle	¼" - 2"
(-27)	ss latch-lock lever & nut	¼" - 2 ½"