



**61LF-100**  
FEMALE x FEMALE THREADED  
1/4" THROUGH 3"



**61LF-200**  
MALE x FEMALE THREADED  
1/4" THROUGH 2"



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

### DESCRIPTION

**Apollo® CVB-LF (61LF Series) Ball Cone® Check Valves** offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion using proven ASTM grade lead free\* materials. They are well-suited for a broad range of applications, including saturated steam and chemical service. They may be installed in both horizontal and vertical orientation with upward flow. **Proudly made in the USA.**

### FEATURES

- Female NPT Sizes: 1/4" to 2"
- Stainless Steel Sizes: 1/4" to 1" (62-500)
- Bubble-Tight Shut-Off, Ideally Suited for Gaseous Service
- NPT Threaded; 400 psig CWP Non-Shock @ 100°F
- EPDM Check Disc (61-500)
- Viton® Check Disc (62-500)
- Straight-Through Flow Minimizes Pressure Loss
- 1/2 psi Cracking Pressure

### OPTIONS

- Soft Seat (61LF-500 Series)
- Solder x Solder (61LF-600 Series Soft Seat)
- (-A1) 0 psig Cracking Pressure (No Spring)
- (-E05) 5 psig Cracking Pressure (1/4"-1" Only)
- (-E10) 10 psig Cracking Pressure (1/4"-1" Only)
- (-57) Oxygen Cleaned
- (-17) Satin Chrome Plate Finish

**Note: Not all combinations available. Call customer service for more details.**

### PERFORMANCE RATING

- Max Pressure: 400 psi / 125 psi Steam
- Max Temp: 350°F (176.6°C)

### APPROVALS

- NSF/ANSI 61 Water Quality
- NSF/ANSI 372 Lead Free
- RoHS Compliant (61LF and 62 Series)
- ARRA Compliant

### STANDARD MATERIALS LIST

<b>BODY</b>	Bronze, ASTM B584, UNS C84400 or Lead Free Bronze, C89836
<b>RETAINER</b>	(1/4" - 1") Brass, ASTM B16 or C27451 (1-1/4" - 3") Bronze, ASTM B584 or C89836
<b>SEAT</b>	RPTFE, 15% Glass Filled
<b>GUIDE PIN</b>	Stainless Steel
<b>SPRING</b>	Stainless Steel
<b>CHECK</b>	Brass, ASTM B16
<b>GUIDE</b>	Brass, ASTM B16

**NOTE: Not recommended for use with reciprocating pumps and similar applications. Low flows may result in undesirable noise and premature valve failure.**

### PART NO. MATRIX

6 x	- X	X	X	- XX
TYPE	CHECK	SPRING TYPE	SIZE (IN.)	OPTIONS
1LF - LEAD FREE BRONZE	1 - BALL CONE (NPT-F X F)	0 - .5 PSIG CRACKING PRESSURE	1 - 1/4"	01 - STANDARD
	2 - BALL CONE (NPT-M X F)	2 - .2 PSIG CRACKING PRESSURE	2 - 3/8"	PO1 - BSPP THREAD**
	0 - BALL CONE REPAIR KIT		3 - 1/2"	TO1 - BSPT THREAD**
			4 - 3/4"	17 - SATIN CHROME PLATED
			5 - 1"	57 - OXYGEN CLEANED
			6 - 1-1/4"	A1 - LESS SPRING
			7 - 1-1/2"	E05 - 5 PSIG OPENING PRESSURE*
			8 - 2"	E10 - 10 PSIG OPENING PRESSURE*
			9 - 2-1/2"	
			0 - 3"	

\*Available in 1/4" through 1" only. | \*\*minimums apply  
(Note: Not all combinations are available. Contact Customer Service for verification.)

\*LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

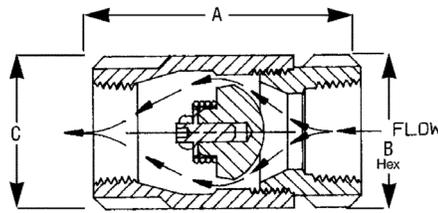
## 61-LF Series

In-line Check Valve

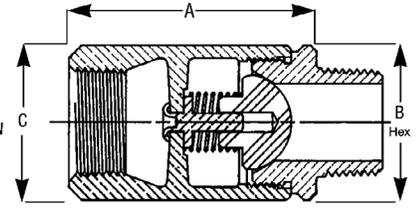
### LEAD FREE

#### DIMENSIONS

LF BRONZE FNPT X FNPT	SIZE	DIMENSIONS (IN.)			61-100 SERIES WT./100	61-200 SERIES WT./100
		A	B	C		
61LF-101-01	1/4"	2.06	1.12	1.12	38	38
61LF-102-01	3/8"	2.12	1.12	1.12	37	37
61LF-103-01	1/2"	2.31	1.12	1.12	36	36
61LF-104-01	3/4"	2.87	1.37	1.50	75	76
61LF-105-01	1"	3.50	1.75	1.93	145	145
61LF-106-01	1-1/4"	4.18	2.12	2.37	275	237
61LF-107-01	1-1/2"	4.93	2.50	2.81	394	381
61LF-108-01	2"	6.00	3.00	3.68	630	636
61LF-109-01	2-1/2"	7.00	3.50	4.50	1400	-
61LF-100-01	3"	8.12	4.12	5.31	1665	-



61-100



61-200

#### PRESSURE TEMPERATURE RATING

DEGREE (F)	PSIG
-20 TO 100	400
200	200
250	160
275	150
300	140
325	130
353	125

#### FLOW RATE (C<sub>v</sub>)

SIZE	GPM
1/4"	0.85
3/8"	1.21
1/2"	1.4
3/4"	3.53
1"	6
1-1/4"	44
1-1/2"	65
2"	81
2-1/2"	175
3"	265

GPM=gallons per minute at 1 psi pressure differential