



**61-500**  
**FEMALE x FEMALE THREADED**  
**1/4" THROUGH 3"**



**61-600**  
**SOLDER**



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

### DESCRIPTION

The Apollo® CVBE "Soft Seat" Check Valve offer reliable tight shut-off protection against reverse flow and corrosion resistance using proven ASTM quality materials made in the USA. Ideally suited for hydronic heating and other low flow applications. Soft seat allows more resistance to vibration and may be installed in both horizontal and vertical upward flow applications.

### 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
- EPDM Check Disc (61-500)
- Viton® Check Disc (62-500)
- Straight-Through Flow Minimizes Pressure Loss
- 1/2 psi Cracking Pressure
- **Made in the USA**

### PERFORMANCE RATING

- NPT Threaded;
- 400 psig CWP Non-Shock @ 100°F

### APPROVALS

- NSF /ANSI 61 Water Quality
- NSF/ANSI 372 Lead Free
- RoHS Compliant (61LF and 62 Series)
- ARRA Compliant
- CRN OC11218.5C

### 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>	EPDM
<b>GUIDE PIN</b>	Stainless Steel
<b>SPRING</b>	Stainless Steel
<b>CHECK</b>	Brass, ASTM B16
<b>GUIDE</b>	Brass, ASTM B16

### 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.**

**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

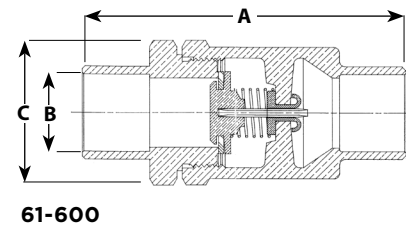
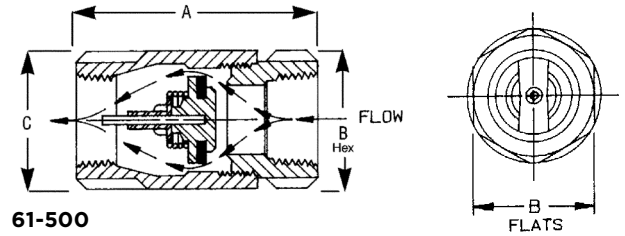
61 x X	- X	X	X	- XX
TYPE	CHECK	SPRING TYPE	SIZE (IN.)	OPTIONS
61 - BRONZE	5 - SOFT SEAT (NPT-F x F)	0 - .5 PSIG CRACKING PRESSURE	1 - 1/4"	01 - STANDARD (EPDM SEAT)
61LF - LEAD FREE BRONZE	6 - SOFT SEAT (SOLDER)	2 - .2 PSIG CRACKING PRESSURE	2 - 3/8"	PO1 - BSPP THREAD (ISO 228)**
	9 - SOFT SEAT REPAIR KIT		3 - 1/2"	TO1 - BSPT THREAD (EN 10226)**
	(EPR ONLY)		4 - 3/4"	17 - SATIN CHROME PLATED
			5 - 1"	57 - OXYGEN CLEANED
				A1 - LESS SPRING
				B1 - NITRILE SEAT
				V1 - VITON SEAT
				E05 - 5 PSIG OPENING PRESSURE*
				E10 - 10 PSIG OPENING PRESSURE*

\*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.

#### DIMENSIONS

PART NO.	LF PART NO.	SIZE	DIMENSIONS (IN.)			WT./100
			A	B	C	
61-500 (FNPT)						
61-501-01	61LF-501-01	1/4"	2.31	1.12	1.12	38
61-502-01	61LF-502-01	3/8"	2.31	1.12	1.12	37
61-503-01	61LF-503-01	1/2"	2.31	1.12	1.12	36
61-504-01	61LF-504-01	3/4"	2.87	1.37	1.50	75
61-505-01	61LF-505-01	1"	3.50	1.75	1.93	145
61-506-01	61LF-506-01	1-1/4"	4.18	2.12	2.37	275
61-507-01	61LF-507-01	1-1/2"	4.93	2.50	2.81	394
61-508-01	61LF-508-01	2"	6.00	3.00	3.68	630
61-600 (SOLDER)						
61-603-01	61LF-603-01	1/2"	2.75	1.12	1.25	38
61-604-01	61LF-604-01	3/4"	3.68	1.50	1.62	75
61-605-01	61LF-605-01	1"	4.50	1.93	2.12	145
61-606-01	61LF-606-01	1-1/4"	6.11	2.13	2.38	330
61-607-01	61LF-607-01	1-1/2"	6.87	2.50	2.81	610
61-608-01	61LF-608-01	2"	7.46	3.38	3.75	1010



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

SIZE	GPM	
	61-500	61-600
1/4"	0.85	-
3/8"	1.21	-
1/2"	1.4	2.20
3/4"	3.53	4.78
1"	6	6
1-1/4"	44	44
1-1/2"	65	65
2"	81	81

GPM=gallons per minute at 1 psi pressure differential