



**61-500**  
FEMALE x FEMALE THREADED  
1/4" THROUGH 2"



**61-600**  
SOLDER  
1/2" THROUGH 2"



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: 1/4" to 2"
- Solder: 1/2" to 2"
- Bubble-Tight Shut-Off, Ideally Suited for Gaseous Service
- EPDM Check Disc (61-500 Standard)
- Straight-Through Flow Minimizes Pressure Loss
- 1/2 psi Cracking Pressure
- **Made in the USA**

### OPTIONS

- Lead Free Soft Seat (61LF-500)
- Lead Free Solder x Solder Soft Seat (61LF-600)
- (-B1) Nitrile 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

- 400 psig CWP Non-Shock @ 100°F

### APPROVALS

- ARRA Compliant
- CRN OC11218.5C

### STANDARD MATERIALS LIST

<b>BODY</b>	Bronze, ASTM B584, UNS C84400
<b>RETAINER</b>	(1/4" - 1-1/4") ASTM B16 Brass (1-1/2" - 2") ASTM B584 Bronze
<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

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

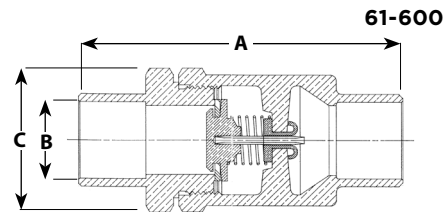
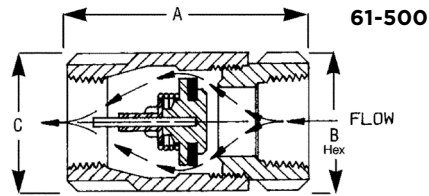
### PART NO. MATRIX

61	- 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)
	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
			6 - 1-1/4"	A1 - LESS SPRING
			7 - 1-1/2"	B1 - NITRILE SEAT (BUNA-N)
			8 - 2"	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.)

### DIMENSIONS

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

C<sub>v</sub> - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in<sup>2</sup>).