



61-500/61-600 Series

In-Line Soft Seat Check Valve



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 61 Series "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**

PERFORMANCE RATING

- 400 psig CWP Non-Shock @ 100°F

APPROVALS

- ARRA Compliant
- CRN OC11218.5C

STANDARD MATERIALS LIST

| | |
|------------------|--|
| BODY | Bronze, ASTM B584, UNS C84400 |
| RETAINER | (1/4" - 1-1/4") ASTM B16 Brass (1-1/2" - 2") ASTM B584 Bronze |
| SEAT | EPDM |
| GUIDE PIN | Stainless Steel |
| SPRING | Stainless Steel |
| CHECK | Brass, ASTM B16 |
| GUIDE | Brass, ASTM B16 |

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.

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* |

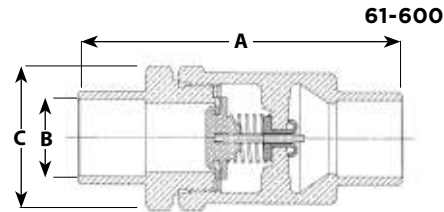
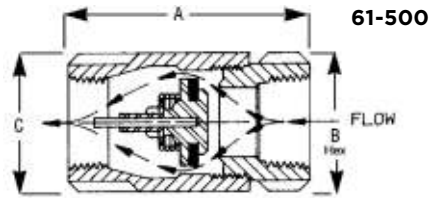
*Available in 1/4" through 1" only. | **minimums apply
(Note: Not all combinations are available. Contact Customer Service for verification.)

61-500/61-600 Series

In-Line Soft Seat Check Valve

DIMENSIONS

| PART NO. | SIZE | DIMENSIONS (IN.) | | | WT./100 |
|------------------------|--------|------------------|------|------|---------|
| | | A | B | C | |
| 61-500 (FNPT) | | | | | |
| 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 |
| 61-600 (SOLDER) | | | | | |
| 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_v)

| 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_v - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psi (lb/in²).