

data sheet

61-500

threaded in-line soft seat check valve



description

The “Apollo”® 61-500 model “soft seat” threaded 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.

size range connections

- ¼” - 2”
- NPT

configurations

- 61-100 series - Ball-Cone® seat
- 61LF series - lead-free option
- 61-500 series - NPT soft seat
- 61-600 series - solder soft seat

approvals

- Buy American Act (BAA)
- Build America Buy America (BABA) Act
- CRN: 0C11218.5C



this specification is provided for reference only. we reserve the right to change any portion of this specification without notice and without incurring obligation to make such changes to Aalberts integrated piping systems products previously or subsequently sold.

Aalberts integrated piping systems

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

aalberts-ips.us

features

- female NPT: ¼” to 2”
- bubble-tight shut-off, ideally suited for gaseous service
- EPDM check disc (61-500 standard)
- straight-through flow minimizes pressure loss
- ½ psi cracking pressure
- manufactured in the USA - BAA and BABA compliant

| component | material |
|-----------|---|
| body | bronze, ASTM B584, UNS C84400 |
| retainer | brass, ASTM B16, C36000 (¼” - 1¼”) bronze ASTM B584, C84400 (1½” - 2”) |
| seat | EPDM |
| spring | stainless steel |
| guide pin | stainless steel |
| guide | brass, ASTM B16, C36000 |
| check | brass, ASTM B16, C36000 |

performance rating

CWP (maximum)

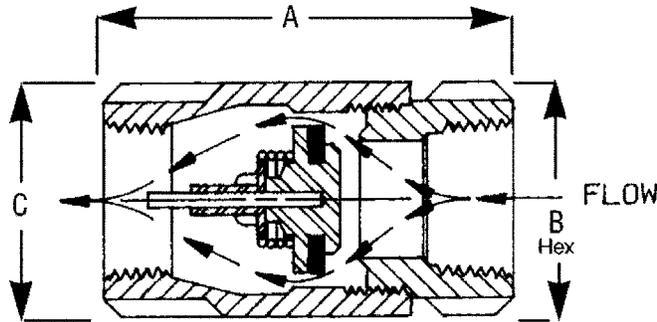
400 psig non-shock at 100°F

caution

- not recommended for use with reciprocating pumps and similar applications. Low flows may result in undesirable noise and premature wear.

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

data sheet



dimensions

| part number | size | a | b | c | weight | Cv |
|-------------|------|-------|-------|-------|----------|-----|
| 61-501-01 | ¼" | 2.31" | 1.12" | 1.12" | 0.38 lbs | 0.7 |
| 61-502-01 | ¾" | 2.31" | 1.12" | 1.12" | 0.37 lbs | 1.1 |
| 61-503-01 | ½" | 2.31" | 1.12" | 1.12" | 0.36 lbs | 1.3 |
| 61-504-01 | ¾" | 2.87" | 1.37" | 1.50" | 0.75 lbs | 3.4 |
| 61-505-01 | 1" | 3.50" | 1.75" | 1.93" | 1.45 lbs | 5.9 |
| 61-506-01 | 1 ¼" | 4.18" | 2.12" | 2.37" | 2.75 lbs | 42 |
| 61-507-01 | 1 ½" | 4.93" | 2.50" | 2.81" | 3.94 lbs | 61 |
| 61-508-01 | 2" | 6.00" | 3.00" | 3.68" | 6.30 lbs | 77 |

** for liquids the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psig (lb/in²)

options

| option | size |
|--|---------|
| soft seat (61-500 series) | all |
| soft seat solder x solder (61LF-600) | all |
| (-B1) nitrile seat | all |
| (-A1) 0 psig cracking pressure (no spring) | all |
| (-E05) 5 psig cracking pressure | ¼" - 1" |
| (-E10) 10 psig cracking pressure | ¼" - 1" |
| (-17) satin chrome plate finish | all |
| (-57) oxygen cleaned | all |

note: not all combinations available. Call customer service for more details.

part number matrix

| 61 | -X | X | X | -XX |
|--------|-------------------------------|--------------------------------|----------|----------------------------------|
| type | check | spring type | size | options |
| bronze | 5 - soft seat (NPT-F x NPT-F) | 0 - 0.5 psig cracking pressure | 1 - ¼" | (-01) standard |
| | 6 - soft seat (solder) | 2 - 0.2 psig cracking pressure | 2 - ⅜" | (-P01) BSPP thread (ISO 228)** |
| | 9 - soft seat repair kit | | 3 - ½" | (-T01) BSPT thread (EN 10226)** |
| | (EPR only) | | 4 - ¾" | (-17) satin chrome plated |
| | | | 5 - 1" | (-57) oxygen cleaned |
| | | | 6 - 1 ¼" | (-A1) less spring |
| | | | 7 - 1 ½" | (-B1) nitrile seat (Buna-N) |
| | | | 8 - 2" | (-V1) viton seat |
| | | | | (-E05) 5 psig opening pressure* |
| | | | | (-E10) 10 psig opening pressure* |

*available in ¼" through 1" only
 **minimums apply

data sheet

61-600

soldered in-line soft seat check valve



description

The “Apollo”® 61-600 model “soft seat” soldered 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.

size range connections

- ½” - 2”
- solder

configurations

- 61-100 series - Ball-Cone® seat
- 61LF series - lead-free option
- 61-500 series - NPT soft seat
- 61-600 series - solder soft seat

approvals

- Buy American Act (BAA)
- Build America Buy America (BABA) Act
- CRN: 0C11218.5C



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features

- solder: ½” to 2”
- bubble-tight shut-off, ideally suited for gaseous service
- EPDM check disc (61-500 standard)
- straight-through flow minimizes pressure loss
- ½ psi cracking pressure
- manufactured in the USA - BAA and BABA compliant

| component | material |
|-----------|---|
| body | bronze, ASTM B584, UNS C84400 |
| retainer | brass, ASTM B16, C36000 (½” - 1¼”) bronze ASTM B584, C84400 (1½” - 2”) |
| seat | EPDM |
| spring | stainless steel |
| guide pin | stainless steel |
| guide | brass, ASTM B16, C36000 |
| check | brass, ASTM B16, C36000 |

performance rating

CWP (maximum)

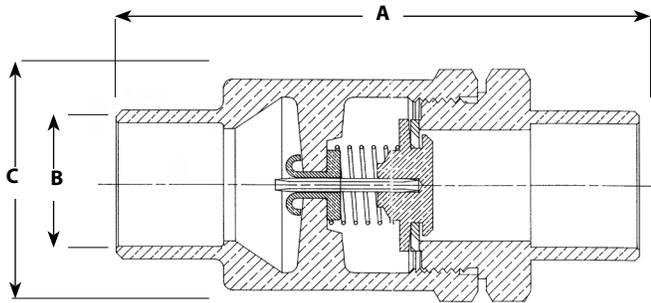
400 psig non-shock at 100°F

caution

- not recommended for use with reciprocating pumps and similar applications. Low flows may result in undesirable noise and premature wear.

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| job name | |
| job location | |
| engineer | |
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| wholesaler dist | |

data sheet



dimensions

| part number | size | a | b | c | weight | Cv |
|-------------|------|-------|-------|-------|-----------|-----|
| 61-603-01 | ½" | 2.75" | 1.12" | 1.25" | 0.38 lbs | 1.3 |
| 61-604-01 | ¾" | 3.68" | 1.50" | 1.62" | 0.75 lbs | 3.4 |
| 61-605-01 | 1" | 4.50" | 1.93" | 2.12" | 1.45 lbs | 5.9 |
| 61-606-01 | 1 ¼" | 6.11" | 2.13" | 2.38" | 3.30 lbs | 42 |
| 61-607-01 | 1 ½" | 6.87" | 2.50" | 2.81" | 6.10 lbs | 61 |
| 61-608-01 | 2" | 7.46" | 3.38" | 3.75" | 10.10 lbs | 77 |

** for liquids the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60°F water with a pressure drop of 1 psig (lb/in²)

options

| option | size |
|--|---------|
| soft seat (61-500 series) | all |
| soft seat solder x solder (61LF-600) | all |
| (-B1) nitrile seat | all |
| (-A1) 0 psig cracking pressure (no spring) | all |
| (-E05) 5 psig cracking pressure | ½" - 1" |
| (-E10) 10 psig cracking pressure | ½" - 1" |
| (-17) satin chrome plate finish | all |
| (-57) oxygen cleaned | all |

note: not all combinations available. Call customer service for more details.

part number matrix

| 61 | -X | X | X | -XX |
|--------|-------------------------------|--------------------------------|----------|----------------------------------|
| type | check | spring type | size | options |
| bronze | 5 - soft seat (NPT-F x NPT-F) | 0 - 0.5 psig cracking pressure | 1 - ¼" | (-01) standard |
| | 6 - soft seat (solder) | 2 - 0.2 psig cracking pressure | 2 - ⅜" | (-P01) BSPP thread (ISO 228)** |
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| | (EPR only) | | 4 - ¾" | (-17) satin chrome plated |
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| | | | | (-E10) 10 psig opening pressure* |

*available in ¼" through 1" only
 **minimums apply