

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](http://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)

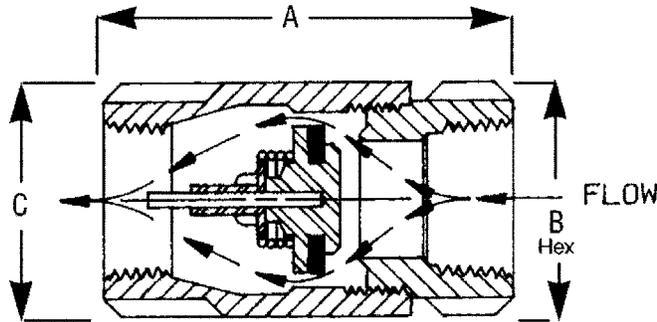
400 psig non-shock at 100°F

### 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	
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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	1¼"	4.18"	2.12"	2.37"	2.75 lbs	42
61-507-01	1½"	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/in<sup>2</sup>)

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 - 1¼"	(-A1) less spring
			7 - 1½"	(-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)

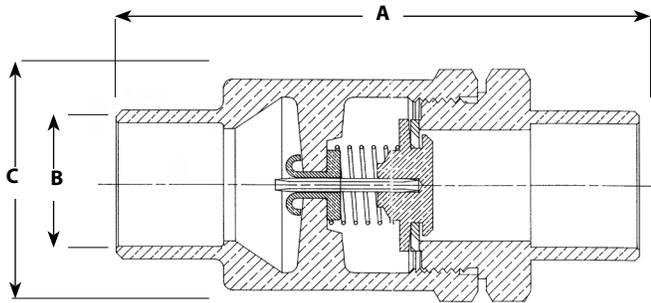
400 psig non-shock at 100°F

### caution

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

job name	
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wholesaler dist	

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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/in<sup>2</sup>)

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)**
	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