

data sheet

61LF-500 series

NPT in-line soft seat check valve | lead-free


description

The lead-free* 61-500 model CVBE "soft seat" check valves offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion using proven ASTM grade lead-free* materials. Ideally suited for potable water, 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. Manufactured in our South Carolina facilities.

*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.

size range connections

- 1/4" - 2"
- NPT

configurations

- 61 series - standard
- 61LF-100 series - NPT | lead-free option
- 61LF series - push | lead-free option

approvals/compliance

- NSF/ANSI 61 water quality
- NSF/ANSI 372 lead-free
- CRN: OC11218.5C
- RoHS compliant
- Buy American Act (BAA)
- Build America Buy America (BABA) Act



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 sizes: 1/4" to 2"
- bubble-tight shut-off, ideally suited for gaseous service
- EPDM check disc (61LF-500 standard)
- straight-through flow minimizes pressure loss
- 1/2 psig cracking pressure
- manufactured in the USA - BAA and BABA compliant

component	material
body	lead-free bronze, ASTM B584, C89836
retainer	lead-free brass, UNS C27451 (1/4" - 1 1/4") lead-free bronze ASTM B584, C89836 (1 1/2" - 2")
guide pin	stainless steel
spring	stainless steel
check	lead-free DZR brass, ASTM C27451
guide	lead-free DZR brass, ASTM C27451
seat	EPDM

performance rating
CWP (non-shock)

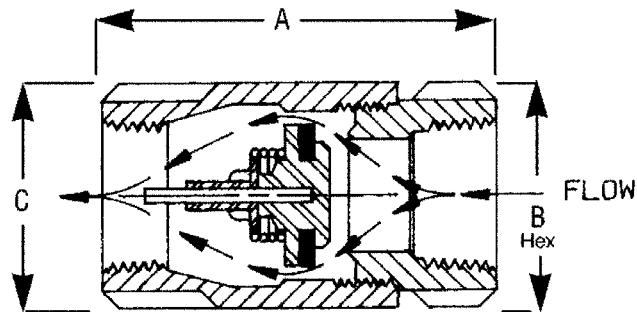
400 psig at 100°F

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 (gpm)
61LF-501-01	1/4"	2.31"	1.12"	1.12"	0.38 lbs	0.85
61LF-502-01	5/8"	2.31"	1.12"	1.12"	0.37 lbs	1.21
61LF-503-01	1/2"	2.31"	1.12"	1.12"	0.36 lbs	1.4
61LF-504-01	3/4"	2.87"	1.37"	1.50"	0.75 lbs	3.53
61LF-505-01	1"	3.50"	1.75"	1.93"	1.45 lbs	6.0
61LF-506-01	1 1/4"	4.18"	2.12"	2.37"	2.75 lbs	44
61LF-507-01	1 1/2"	4.93"	2.50"	2.81"	3.94 lbs	65
61LF-508-01	2"	6.00"	3.00"	3.68"	6.30 lbs	81

** 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)	1/4" - 2"
soft seat solder x solder (61LF-600)	1/4" - 2"
(-A1) 0 psig cracking pressure (no spring)	1/4" - 2"
(-A1) 0 psig cracking pressure (no spring)	1/4" - 2"
(-E05) 5 psig cracking pressure	1/4" - 1"
(-E10) 10 psig cracking pressure	1/4" - 1"
(-17) satin chrome plate finish	1/4" - 2"
(-57) oxygen cleaned	1/4" - 2"

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

part number matrix

61LF	-X	X	X	-XX
type	check	spring type	size	options
lead-free bronze	5 - soft seat (NPT-F x NPT-F)	0 - 0.5 psig cracking pressure	1 - 1/4"	(-01) standard
	6 - soft seat (solder)	2 - 0.2 psig cracking pressure	2 - 5/8"	(-17) satin chrome plated
	9 - soft seat repair kit		3 - 1/2"	(-57) oxygen cleaned
	(EPR only)		4 - 3/4"	(-A1) less spring
			5 - 1"	(-B1) nitrile seat (BUNA-N)
			6 - 1 1/4"	(-V1) viton seat
			7 - 1 1/2"	(-E05) 5 psig opening pressure*
			8 - 2"	(-E10) 10 psig opening pressure*

data sheet

61LF-600 series

solder in-line soft seat check valve | lead-free


description

The lead-free* 61-600 model CVBE "soft seat" check valves offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion using proven ASTM grade lead-free* materials. Ideally suited for potable water, 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. Manufactured in our South Carolina facilities.

*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.

size range connections

- 1/2" - 2"
- solder

configurations

- 61 series - standard
- 61LF-100 series - NPT | lead-free option
- 61LF series - push | lead-free option

approvals/compliance

- NSF/ANSI 61 water quality
- NSF/ANSI 372 lead-free
- CRN: OC11218.5C
- RoHS compliant
- Buy American Act (BAA)
- Build America Buy America (BABA) Act



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

- solder sizes: 1/2" to 2"
- bubble-tight shut-off, ideally suited for gaseous service
- EPDM check disc (61LF-500 standard)
- straight-through flow minimizes pressure loss
- 1/2 psig cracking pressure
- manufactured in the USA - BAA and BABA compliant

component	material
body	lead-free bronze, ASTM B584, C89836
retainer	lead-free brass, UNS C27451 (1/2" - 1 1/4") lead-free bronze ASTM B584, C89836 (1 1/2" - 2")
guide pin	stainless steel
spring	stainless steel
check	lead-free DZR brass, ASTM C27451
guide	lead-free DZR brass, ASTM C27451
seat	EPDM

performance rating
CWP (non-shock)

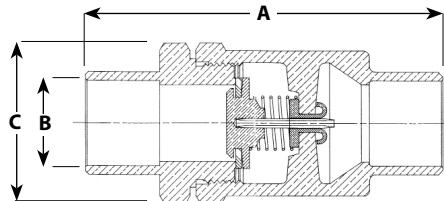
400 psig at 100°F

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 (gpm)
61LF-603-01	1/2"	2.75"	1.12"	1.25"	0.38 lbs	2.2
61LF-604-01	3/4"	3.68"	1.50"	1.62"	0.75 lbs	4.78
61LF-605-01	1"	4.50"	1.93"	2.12"	1.45 lbs	6.0
61LF-606-01	1 1/4"	6.11"	2.13"	2.38"	3.30 lbs	44
61LF-607-01	1 1/2"	6.87"	2.50"	2.81"	6.10 lbs	65
61LF-608-01	2"	7.46"	3.38"	3.75"	10.10 lbs	81

** 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)	1/2" - 2"
soft seat solder x solder (61LF-600)	1/2" - 2"
(-B1) nitrile seat	1/2" - 2"
(-A1) 0 psig cracking pressure (no spring)	1/2" - 2"
(-E05) 5 psig cracking pressure	1/2" - 1"
(-E10) 10 psig cracking pressure	1/2" - 1"
(-17) satin chrome plate finish	1/2" - 2"
(-57) oxygen cleaned	1/2" - 2"

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

part number matrix

61LF	-X	X	X	-XX
type	check	spring type	size	options
lead-free bronze	5 - soft seat (NPT-F x NPT-F)	0 - 0.5 psig cracking pressure	1 - 1/4"	(-01) standard
	6 - soft seat (solder)	2 - 0.2 psig cracking pressure	2 - 5/8"	(-17) satin chrome plated
	9 - soft seat repair kit		3 - 1/2"	(-57) oxygen cleaned
	(EPR only)		4 - 3/4"	(-A1) less spring
			5 - 1"	(-B1) nitrile seat (BUNA-N)
			6 - 1 1/4"	(-V1) viton seat
			7 - 1 1/2"	(-E05) 5 psig opening pressure*
			8 - 2"	(-E10) 10 psig opening pressure*