

data sheet

61LF-100 series

in-line Ball-Cone® check valve | lead-free



features

- female NPT sizes: ¼" to 3"
- straight-through flow minimizes pressure loss
- ½ psig cracking pressure
- RPTFE Ball-Cone® for chemical resistance
- manufactured in the USA - BAA and BABA compliant

description

The lead-free* 61 series Ball-Cone® check valves offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion using proven ASTM grade lead free* materials. They are well-suited for a broad range of applications, including saturated steam and chemical service. They may be installed in both horizontal and vertical orientation with upward flow. 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

- ¼" - 3"
- 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: 0C11218.5C
- RoHS compliant
- REACH compliant
- Buy American Act (BAA)
- Build America Buy America (BABA) Act



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Aalberts integrated piping systems

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component	material
body	lead-free bronze, ASTM B584, C89836
retainer	lead-free brass, UNS C27451 (¼" - 1 ¼") lead-free bronze ASTM B584, C89836 (1 ½" - 3")
guide pin	stainless steel
spring	stainless steel
check	lead-free DZR brass, UNS C27451
guide	lead-free DZR brass, UNS C27451
seat	RPTFE, 15% glass filled

performance rating

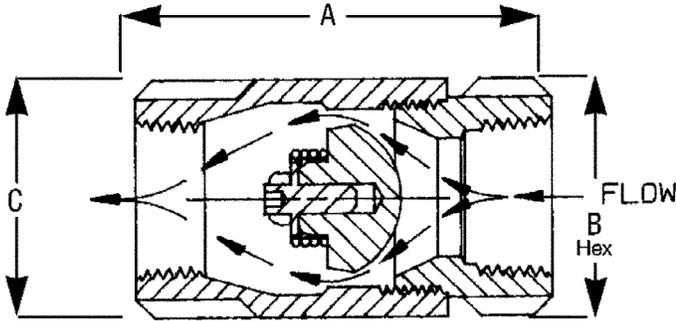
CWP (maximum)	SWP (maximum)	temperature (maximum)
400 psig	125 psig	350°F (176.6°C)

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-101-01	¼"	2.06"	1.12"	1.12"	0.38 lbs	0.85
61LF-102-01	⅜"	2.12"	1.12"	1.12"	0.37 lbs	1.21
61LF-103-01	½"	2.31"	1.12"	1.12"	0.36 lbs	1.4
61LF-104-01	¾"	2.87"	1.37"	1.50"	0.75 lbs	3.53
61LF-105-01	1"	3.50"	1.75"	1.93"	1.45 lbs	6.0
61LF-106-01	1 ¼"	4.18"	2.12"	2.37"	2.75 lbs	44
61LF-107-01	1 ½"	4.93"	2.50"	2.81"	3.94 lbs	65
61LF-108-01	2"	6.00"	3.00"	3.68"	6.30 lbs	81
61LF-109-01	2 ½"	7.00"	3.50"	4.50"	14.00 lbs	175
61LF-100-01	3"	8.12"	4.12"	5.31"	16.65 lbs	265

** 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)	¼" - 3"
soft seat solder x solder (61LF-600)	¼" - 3"
(-A1) 0 psig cracking pressure (no spring)	¼" - 3"
(-E05) 5 psig cracking pressure	¼" - 1"
(-E10) 10 psig cracking pressure	¼" - 1"
(-17) satin chrome plate finish	¼" - 3"
(-57) oxygen cleaned	¼" - 3"

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	1 - ball cone (NPT-F x F)	0 - 0.5 psig cracking pressure	1 - ¼"	(-01) standard
	0 - ball cone repair kit	2 - 0.2 psig cracking pressure	2 - ⅜"	(-17) satin chrome plated
			3 - ½"	(-57) oxygen cleaned
			4 - ¾"	(-A1) less spring
			5 - 1"	(-E05) 5 psig opening pressure*
			6 - 1 ¼"	(-E10) 10 psig opening pressure*
			7 - 1 ½"	
			8 - 2"	
			9 - 2 ½"	
			0 - 3"	