

data sheet

61-100 series

in-line Ball-Cone® check valve



features

- female (inlet) x female threaded (1/4" - 3")
- spring actuated
- straight-through flow design efficiency
- RPTFE Ball-Cone® for chemical resistance
- manufactured in the USA - BAA and BABA compliant

description

The "Apollo"® 61-100 model "soft seat" FxF 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

- 1/4" - 3"
- 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

job name

job location

engineer

contractor

tag

PO#

rep

wholesaler dist

component	material
body	bronze, ASTM B584, UNS C84400
retainer	brass, ASTM B16, C36000 (1/4" - 1 1/4") bronze ASTM B584, C84400 (1 1/2" - 3")
stem	brass, ASTM B16, C36000
spring	stainless steel
ball cone check	RPTFE, 15% glass filled

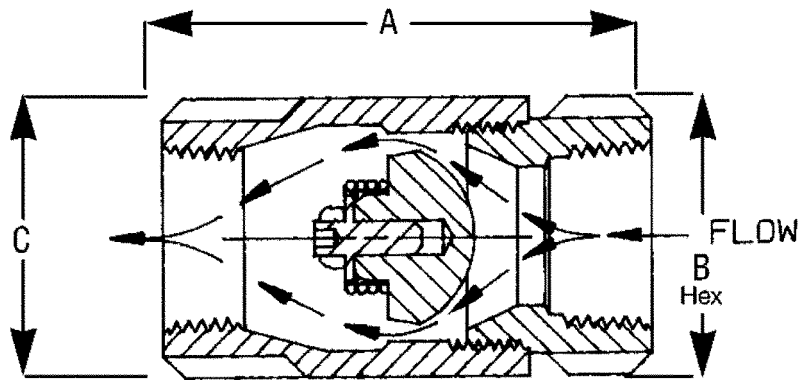
performance rating**

CWP (maximum)	SWP	temperature (maximum)
400 psig (2758 kPa) at 100°F	125 psig (862 kPa) at 350°F	406°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.

data sheet



dimensions

part number	size	a	b	c	weight	Cv
61-101-01	¼"	2.06"	1.12"	1.12"	0.38 lbs	0.85
61-102-01	⅜"	2.12"	1.12"	1.12"	0.38 lbs	1.21
61-103-01	½"	2.31"	1.12"	1.12"	0.38 lbs	1.40
61-104-01	¾"	2.87"	2.37"	1.50"	0.75 lbs	3.53
61-105-01	1"	3.50"	1.75"	1.93"	1.45 lbs	6.00
61-106-01	1 ¼"	4.19"	2.12"	2.37"	2.75 lbs	44
61-107-01	1 ½"	4.94"	2.50"	2.81"	3.94 lbs	65
61-108-01	2"	6.00"	3.00"	3.68"	6.30 lbs	81
61-109-01	2 ½"	7.12"	3.87"	4.50"	14.00 lbs	175
61-100-01	3"	8.13"	5.31"	4.63"	16.60 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
lead-free (61LF-100 series)	all
soft seat (61-500 series)	all
lead-free soft seat (61LF-500 series)	all
soft seat solder x solder (61-600)	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
BSPP threads	½" - 1"

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	1 - ball cone (NPT-F x NPT-F)	0 - 0.5 psig cracking pressure	1 - ¼"	(-01) standard
	2 - ball cone (NPT-M x NPT-F)	2 - 0.2 psig cracking pressure	2 - ⅜"	(-P01) BSPP thread**
	0 - ball cone repair kit		3 - ½"	(-T01) BSPT thread**
	(EPR only)		4 - ¾"	(-17) satin chrome plated
			5 - 1"	(-57) oxygen cleaned
			6 - 1 ¼"	(-A1) less pring
			7 - 1 ½"	(-E05) 5 psig opening pressure*
			8 - 2"	(-E10) 10 psig opening pressure*
			9 - 2 ½"***	
			0 - 3"	

*available in ¼" through 1" only

**minimums apply

***available on 61-100 only

data sheet

61-200 series

FxM threaded in-line Ball-Cone® check valve



features

- female (inlet) x male threaded (1/4" - 2")
- spring actuated
- straight-through flow design efficiency
- RPTFE Ball-Cone® for chemical resistance
- manufactured in the USA - BAA and BABA compliant

description

The "Apollo"® 61-200 model "soft seat" FxM 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

- 1/4" - 2"
- FxM 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

job name

job location

engineer

contractor

tag

PO#

rep

wholesaler dist

component	material
body	bronze, ASTM B584, UNS C84400
retainer	brass, ASTM B16, C36000 (1/4" - 1 1/4") bronze ASTM B584, C84400 (1 1/2" - 2")
stem	brass, ASTM B16, C36000
spring	stainless steel
ball cone check	RPTFE, 15% glass filled

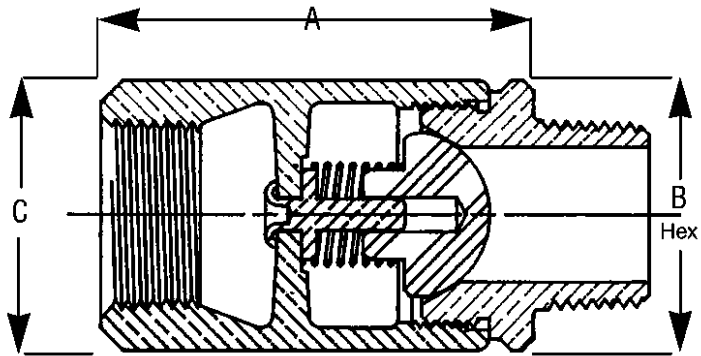
performance rating**

CWP (maximum)	SWP	temperature (maximum)
400 psig (2758 kPa) at 100°F	125 psig (862 kPa) at 350°F	406°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.

data sheet



dimensions

part number	size	a	b	c	weight	Cv
61-201-01	¼"	2.38"	1.12"	1.12"	0.38 lbs	0.85
61-202-01	⅜"	2.38"	1.12"	1.12"	0.38 lbs	1.21
61-203-01	½"	2.57"	1.12"	1.12"	0.38 lbs	1.40
61-204-01	¾"	3.09"	2.37"	1.50"	0.75 lbs	3.53
61-205-01	1"	3.85"	1.75"	1.93"	1.45 lbs	6.00
61-206-01	1 ¼"	4.44"	2.12"	2.37"	2.75 lbs	44
61-207-01	1 ½"	5.16"	2.50"	2.81"	3.94 lbs	65
61-108-01PR	2"	6.47"	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
lead-free (61LF-100 series)	all
soft seat (61-500 series)	all
lead-free soft seat (61LF-500 series)	all
soft seat solder x solder (61-600)	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
BSPP threads	½" - 1"

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	1 - ball cone (NPT-F x NPT-F)	0 - 0.5 psig cracking pressure	1 - ¼"	(-01) standard
	2 - ball cone (NPT-M x NPT-F)	2 - 0.2 psig cracking pressure	2 - ⅜"	(-P01) BSPP thread**
	0 - ball cone repair kit		3 - ½"	(-T01) BSPT thread**
	(EPR only)		4 - ¾"	(-17) satin chrome plated
			5 - 1"	(-57) oxygen cleaned
			6 - 1 ¼"	(-A1) less pring
			7 - 1 ½"	(-E05) 5 psig opening pressure*
			8 - 2"	(-E10) 10 psig opening pressure*
			9 - 2 ½"***	
			0 - 3**	

*available in ¼" through 1" only

**minimums apply

***available on 61-100 only