



61-100 Ball-Cone Check Valves (1/4" to 3")

Sizes: 1/4" to 3"

Ends: FNPT x FNPT



Overview

Patented design (US Pat. No. 4,172,465) with reinforced RPTFE ball-cone check and stainless steel springs, these valves offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion. No radial alignment is needed.

Features

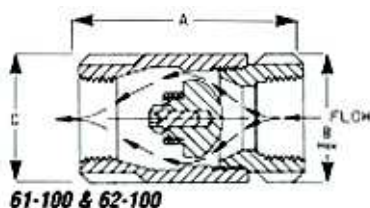
- 1/2 psi opening pressure is standard
- Bronze sizes from 1/4" to 3". Stainless steel sizes 1/4" to 2"
- Tight shut-off with liquid media
- Straight-through design minimizes flow changes
- 125 psig steam rating @ 350°F max
- Meets MSS-SP80 Numerous options are available (see below)

PRECAUTIONARY NOTE

Not recommended for use with reciprocating pumps and similar applications which may induce repetitious vibrations. Low flow rates, which do not fully open the valve, may result in undesirable noise and premature valve failure, upstream flow disturbances, which create turbulence, may also result in rapid wear. Therefore, it is recommended that a minimum of 10 diameters of straight pipe be provided between the check valve and any upstream flow disturbances such as pumps, control valves, elbows, etc.

Options

Options Available	Ordering Suffix
5 PSIG opening pressure	-E05
10 PSIG opening pressure	-E10
Light Spring (change fourth digit from zero to "2")	6x-x20
Oxygen Clean	-57
Nitrile Seat (soft seat check valves only)	-31



Flow Rate (Cv)GPM=gallons per minuteall at 1 psi pressure differential	
Size	GPM
1/4"	0.85
3/8"	1.21
1/2"	1.4
3/4"	3.53
1"	6
1-1/4"	44
1-1/2"	65
2"	81

Pressure Temperature Ratings	
Degree (F)	PSIG
-20 to 100	400
200	200
250	160
275	150
300	140
325	130
353	125

Dimensions

Part No.	Size in./mm	A in./mm	B in./mm	C in./mm	61 Series Wt/100
61-101-01	1/4 8 6.35	2.06 52.39	1.13 28.58	1.13 28.58	38.00
61-102-01	3/8 10 9.53	2.13 53.98	1.13 28.58	1.13 28.58	38.00
61-103-01	1/2 15 12.70	2.31 58.74	1.13 28.58	1.13 28.58	38.00
61-104-01	3/4 20 19.05	2.88 73.03	1.38 34.93	1.50 38.10	75.00
61-105-01	1 25 25.40	3.50 88.90	1.75 44.45	1.94 49.21	145.00
61-106-01	1-1/4 32 31.75	4.19 106.36	2.13 53.98	2.38 60.33	275.00
61-107-01	1-1/2 40 38.10	4.94 125.41	2.50 63.50	2.81 71.44	394.00
61-108-01	2 50 50.80	6.00 152.40	3.00 76.20	3.69 93.66	630.00
61-109-01	2-1/2 65 63.50	7.00 177.80	3.50 88.90	4.50 114.30	1,400.00
61-100-01	3 80 76.20	8.13 206.38	4.13 104.78	5.31 134.94	1,665.00