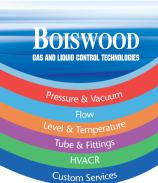


6100 & 6200 Series

Ball and Poppet Check Valves







Features

- O-ring seat provides leak-tight shutoff
- Internal design guides flow around or inside spring, not through coils, when valve is open
- All models are tested in production to assure a leak-tight body joint and seat
- Ball and poppet designs are available as standard
- Ball type provides effective leak-tight closure with minimum flow resistance
- Poppet models provide large flows with a minimum of chatter and fluctuation
- Valves are available with various cracking pressures, from ½ to 25 psig (0 to 2 bar).
- 2-piece body permits interchangeability of end connections
- Special High Tolerance NPT Thread

Applications

- Prevents reversed flow to protect solenoids, regulators, and pumps
- Locks pressure in hydraulic cylinders
- Low pressure inline relief valve
- Vent valve to purge a system

Technical Data

Body Material*	316 stainless steel, brass, MONEL®
Maximum Operating Pressure	Brass: 3000 psig @ 70° F (206.84 bar @ 21° C) Stainless steel, MONEL®: 6000 psig @ 70° F (414 bar @ 21° C)
Standard cracking pressure	2 psig
Operating Temperature Range	Buna N: -40° F to +200° F (-40° C to +93° C) Viton®: -20° F to +350° F (-29° C to +177° C)
Orifice Sizes	0.187" (4.75mm), 0.422" (10.7mm)
Cv Factors	0.3, 2.4

Consult factory for other materials

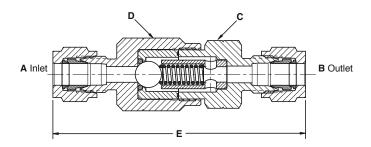
6100 & 6200 Series

Materials of Construction

		Ball Type		Poppet Type
Part	Brass	316 Stainless Steel	MONEL®	316 Stainless Steel
Body	Brass	316 stainless steel	MONEL®	316 stainless steel
Ball/Poppet	302 stainless steel	316 stainless steel	MONEL®	316 stainless steel
Spring	302 stainless steel	316 stainless steel	MONEL®	316 stainless steel
O-ring seat	Buna N	Viton®	Viton®	Viton®/Buna N*
Gasket (body)	Mylar®	PTFE	PTFE	PTFE/Buna N*

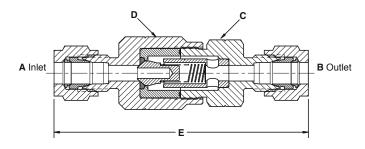
^{*} For poppet check valves with %" and %" NPT female connections.

Dimensions



6100 Series Ball Check Valves

A & B Connections		C Hex	D Hex	E
⅓″ NPT female	inch	¹¹ / ₁₆	3/4	2¾
/8 INFT Terriale	mm	17	19	60
½″ NPT male	inch	¹¹ / ₁₆	3/4	2¾
/8 INFT IIIale	mm	17	19	60
1/4" NPT female	inch	3/4	3/4	21/2
74 INFT Terriale	mm	19	19	64
1/4" NPT male	inch	¹¹ / ₁₆	3/4	2¾
74 INFT IIIale	mm	17	19	60
1/4" NPT male x 1/4"	inch	¹¹ ⁄ ₁₆	3/4	2¾
GYROLOK®	mm	17	19	70
6mm GYROLOK®	inch	11/16	3/4	3
	mm	17	19	76
½" GYROLOK®	inch	¹ 1/ ₁₆	3/4	3
	mm	17	19	76
¾″ GYROLOK®	inch	1	3/4	31/8
% GYRULUN®	mm	25	19	79



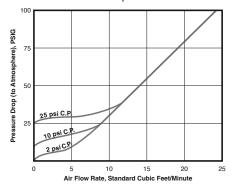
6200 Series Poppet Check Valves

A & B Connections		C Hex	D Hex	E
1/4" NPT female	inch	3/4	3/4	21/2
74 INFT Terriale	mm	19	19	64
1/4" NPT male	inch	11/16	3/4	2%
	mm	17	19	60
½" GYROLOK®	inch	11/16	3/4	3
	mm	17	19	76
%" GYROLOK®	inch	1	3/4	31/8
	mm	25	19	79
½" NPT female	inch	11/4	11/4	41/8
	mm	32	32	105

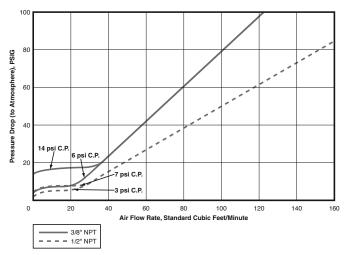
6100 & 6200 Series

Flow Diagrams

For all models except %" and ½" NPT female

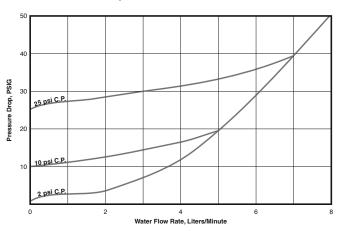


%" and 1/2" NPT female models

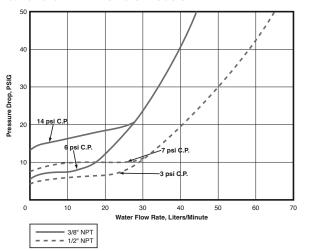


Water

For all models except %" and ½" NPT female



3/4" and 1/2" NPT female models



How to Order: Standard Valves (factory preset at cracking pressure of 2 psig) 6200 Series Poppet Check Valves

6100 Series Ball Check Valves

		Part Number		
A & B Connections	Brass	MONEL®	316 St. Steel	Orifice
½" NPT female	6113F2B	_	6133F2Y	0.187
½" NPT male	6113M2B	_	6133M2Y	0.187
1/4" NPT female	6113F4B	_	6133F4Y	0.187
1/4" NPT male	6113M4B	_	6133M4Y	0.187
1/4" GYROLOK®	6113G4B	6133G4M	6133G4Y	0.187
¾" GYROLOK®	6113G6B	6133G6M	6133G6Y	0.187
1/4" NPT male × 1/4" GYROLOK®	6113H4B	_	_	0.187
GYROLOK®	_	_	6133G6YMM	0.187

A & B Connections 316 St. Steel Orifice ¼" NPT female 6233F4Y 0.187 ¼" NPT male 6233M4Y 0.187 ¼" GYROLOK® 6233G4Y 0.187 %" GYROLOK® 6233G6Y 0.187		Part Number	
1/4" NPT male 6233M4Y 0.187 1/4" GYROLOK® 6233G4Y 0.187 %" GYROLOK® 6233G6Y 0.187	A & B Connections	316 St. Steel	Orifice
¼" GYROLOK® 6233G4Y 0.187 ¾" GYROLOK® 6233G6Y 0.187	1/4" NPT female	6233F4Y	0.187
%" GYROLOK® 6233G6Y 0.187	1/4" NPT male	6233M4Y	0.187
	1/4" GYROLOK®	6233G4Y	0.187
	¾" GYROLOK®	6233G6Y	0.187
½" NPT female 6253F8Y 0.422	½" NPT female	6253F8Y	0.422
GYROLOK® 6253G8Y 0.422	GYROLOK®	6253G8Y	0.422

Other Differential Cracking Pressures

Cracking Pressure	Digit
⅓ psig	-1
10 psig	-5
25 nsig	-6

All check valves except \%" and \1/2" female NPT models can be furnished with other than the standard 2 psig cracking pressure. To order, change the fourth digit ("-3") of the desired valve part number.

Example: 6115G4B is a 6100 Series brass ball check valve with 1/4" GYROLOK® ends and a 10 psig cracking pressure

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