

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

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Technical Data

Body Material* Maximum Operating Pressure	316 stainless steel, brass, Monel® Brass: 3000 psig @ 70° F (414 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

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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®	Teflon [®]	Teflon [®]	Teflon®/Buna N*

* For poppet check valves with $\frac{3}{2}$ and $\frac{1}{2}$ NPT female connections.

Dimensions





6100 Series Ball Check Valves

A & B Connections		C Hex	D Hex	E
14" NDT fomale	inch	11/16	3⁄4	2%
78 INPTTEINATE	mm	17	19	60
14″ NPT malo	inch	11/16	3⁄4	2%
78 INFTITIALE	mm	17	19	60
1/″ NDT fomale	inch	3⁄4	3⁄4	21/2
[%] NPT lemale	mm	19	19	64
1/″ NDT mala	inch	11/16	3⁄4	2%
74 NPT Male	mm	17	19	60
1/" NPT male x 1/" Gyrolok®	inch	11/16	3⁄4	2¾
74 INFT IIIdle X 74 Gyrolok	mm	17	19	70
Creans Convelate®	inch	11/16	3⁄4	3
omin Gyrolok*	mm	17	19	76
1/″ Curalak®	inch	11/16	3⁄4	3
74 Gyrolok	mm	17	19	76
34" Curalak®	inch	1	3⁄4	3%
78 Gyrolok*	mm	25	19	79

6200 Series Poppet Check Valves

A & B Connections		C Hex	D Hex	E
1/1″ NDT fomalo	inch	3⁄4	3⁄4	21/2
74 NFT Ternale	mm	19	19	64
1/″ NDT male	inch	11/16	3⁄4	2%
74 INPT IIIdie	mm	17	19	60
1/" Currelet®	inch	11/16	3⁄4	3
1/4 Gyrolok*	mm	17	19	76
3/" Cumalalu®	inch	1	3⁄4	3%
78 Gyrolok	mm	25	19	79
1/" Curalala	inch	11/4	11⁄4	31/2
72 Gyrolok	mm	32	32	89

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Flow Diagrams

Air

For all models except %" and 1/2" NPT female



Water

For all models except 36" and 1/2" NPT female



%" and 1/2" NPT female models



%" and 1/2" NPT female models



How to Order: Standard Valves (factory preset at cracking pressure of 2 psig) 6100 Series Ball Check Valves 6200 Series Poppet Check Valves

	Part Number				Part Number		
A & B Connections	Brass	Monel®	316 St. Steel	Orifice	A & B Connections	316 St. Steel	Orifice
%″ NPT female	6113F2B	—	6133F2Y	0.187	¼″ NPT female	6233F4Y	0.187
%″ NPT male	6113M2B	_	6133M2Y	0.187	¼″ NPT male	6233M4Y	0.187
¼″ NPT female	6113F4B	—	6133F4Y	0.187	1⁄4″ Gyrolok®	6233G4Y	0.187
¼″ NPT male	6113M4B	_	6133M4Y	0.187	¾″ Gyrolok®	6233G6Y	0.187
1⁄4″ Gyrolok®	6113G4B	6133G4M	6133G4Y	0.187	1/2" NPT female	6253F8Y	0.422
¾″ Gyrolok®	6113G6B	6133G6M	6133G6Y	0.187	1⁄2″ Gyrolok®	6253G8Y	0.422
1/4" NPT male × 1/4" Gyrolok®	6113H4B	_	_	0.187			
6mm Gyrolok®	_	_	6133G6YMM	0.187			

Other Differential Cracking Pressures

I	Cracking Pressure	Digit	All check valves except ¾" and ½" f	female NPT models can be furnished with other that the standard
	⅓ psig	-1	2 psig cracking pressure. To order,	change the fourth digit ("–3") of the desired valve part number.
	10 psig	-5		
	25 psig	-6	Example: 6115G4B is a 6100 Series	brass ball check valve with 1/4 Gyrolok® ends and a 10 psig crackin
			pressure	FOR YOUR SAFETY

ve with ¼″ Gyrolok® ends and a 10 psig cracking

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IT IS SOLELY THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER TO SELECT PRODUCTS SUITABLE FOR THEIR SPECIFIC APPLICATION REQUIREMENTS AND TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF THESE PRODUCTS. MATERIAL COMPATIBILITY, PRODUCT RATINGS AND APPLICATION DETAILS SHOULD BE CONSIDERED IN THE SELECTION. IMPROPER SELECTION OR USE OF PRODUCTS DESCRIBED HEREIN CAN CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.