

2300 Series

0 to 10000 psig Check Valve



Features

- Designed for high pressure service
- Resilient o-ring
- Single piece design

Benefits

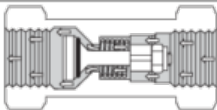
- Less susceptible to contamination damage
- Zero leakage at normal back pressure
- Automatic compensation for wear
- Cushioned, quiet closing

Technical Data

Body Construction Materials	Aluminum, brass, 303 stainless steel, or 17-4 PH stainless steel
O-ring Materials	Buna N, ethylene propylene, neoprene, PTFE and Viton®
Operating Pressure	<ul style="list-style-type: none"> • Aluminum: 0 to 5000 psig (345 bar) (for temperatures under 250° F) • Brass: 0 to 5000 psig (345 bar) • 303 stainless steel: 0 to 7500 psig (517 bar) • 17-4 PH stainless steel: 0 to 10000 psig (690 bar)
Proof Pressure	<ul style="list-style-type: none"> • Aluminum: 7500 psig (517 bar) • Brass: 7500 psig (517 bar) • 303 stainless steel: 11,250 psig (776 bar) • 17-4 PH stainless steel: 15000 psig (1,034 bar)
Rated Burst Pressure	<ul style="list-style-type: none"> • Aluminum: 12500 psig (862 bar) • Brass: 12500 psig (862 bar) • 303 stainless steel: 18,750 psig (1,293 bar) • 17-4 PH stainless steel: 25000 psig (1,724 bar)
Temperature Range	<ul style="list-style-type: none"> • -100° F to +400° F (-73° C to +204° C) Based on a-ring & body material, see "How to Order"
Connection Sizes	1/8" to 1"

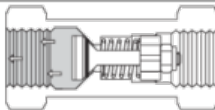
Note: Proper filtration is recommended to prevent damage to sealing surfaces.

How it Works



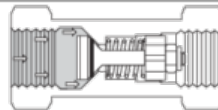
Open

Flow passes smoothly over poppet head with minimum turbulence.



Closing

O-ring automatically establishes line of contact with conical seat to cushion closing and insure perfect sealing.



Closed

O-ring only seals. Full pressure is carried by metal-to-metal seat. Increasing pressure increases sealing efficiency.

check valves

Circle Seal Controls

2301 Wardlow Circle • Corona, CA 92880
 Phone (951) 270-6200 • Fax (951) 270-6201
 www.circlesealcontrols.com