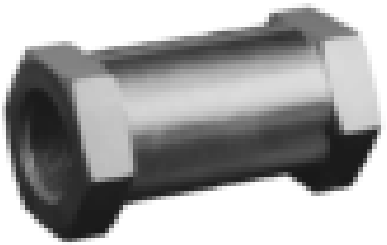
CIRCLE SEAL CONTROLS

200 Series *0 to 3000 psig Check Valves*
H200 Series *0 to 6000 psig Check Valves*



Features & Benefits

Quick opening/positive closing
- Provides a wide range of adaptability

Large flow capacity
- The patented sealing principle effects complete leakproof closing under all pressure conditions

Zero leakage
- Compact, easy installation. Efficient inline piping reduces size and weight

Floating o-ring
- The streamlined poppet and full ports offer minimum restriction to flow

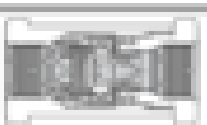
Technical Data

Body Construction Materials	Aluminum, brass, steel, 300 series stainless steel
O-ring Materials	Buna-N, ethylene propylene, fluorosilicone, fluorocarbon, neoprene, PTFE, and Viton®
Operating Pressure	200 Series: 0–3000 psig (207 bar) H200 Series: 0–6000 psig (414 bar)
Proof Pressure	1.5 times operating pressure
Burst Pressure	200 Series: 4 : 1 H200 Series: 6 : 1
Cracking Pressure	0.5 to 10 psig (0.0345 to 0.69 bar)
Temperature Range	–320° F to +500° F (–196° C to +260° C) Based on o-ring & body material, see "How to Order"
Connections	1/4 to 2"

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

How It Works

Open
Full flow passages offer minimum resistance to flow. Spring is completely removed from flow path.



Closing
Floating o-ring automatically establishes line contact with conical metal surfaces of poppet and seat to confirm closing and insure perfect sealing.

Closed
O-ring seals seats. Full pressure loading carried by metal to metal seat. Increasing pressure increases sealing efficiency. Metal seat prevents any possibility of deformation or extrusion of o-ring.

check valves

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