

5100 Series

Inline Relief Valves
10 to 2400 psig (0.7 – 165 bar)



Features

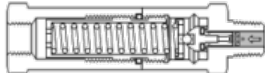
Zero leakage up to 95% of cracking pressure
Positive reset at high percentage of cracking pressure
Accurate set pressure
Wide range of cracking pressure
Tamper-proof adjustment
PED certifications and CE marking available for most models

Technical Data

Body Construction Materials	Brass, steel, 303 or 316 stainless steel
O-ring Materials	Buna N, ethylene propylene, neoprene, PTFE, and Viton®
Spring Material	17-7 PH stainless steel
Operating Pressure	0 to 2400 psig (166 bar)
Proof Pressure	3600 psig (248 bar)
Burst Pressure	Over 5000 psig (345 bar)
Temperature Range	-320° F to +400° F (-196° C to +204° F) Based on O-ring material, see "How to Order"
Connection Sizes	1/8" to 1 1/4"

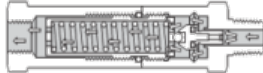
Note: Proper filtration is recommended to prevent damage to sealing surfaces.

How it Works



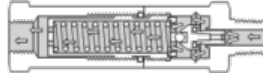
Closed

The spring load is carried by a metal-to-metal stop. The O-ring provides a leak-tight seal. Sealing efficiency increases as the pressure increases up to the cracking pressure.



Cracking

The ports in poppet open fully and eliminate rapid increase in the pressure. The flow is throttled between the poppet shoulder and the seat, which provides regularly increasing flow area with increasing flow rates.



Open

The inline construction and full flow ports permit maximum flow with minimum increase in the system pressure.

relief valves

Circle Seal Controls

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