



HP500 Series

High Pressure Popoff and In-line Relief Valves

150 to 575 psig (10 - 40 bar)



Illustration

Features

- Very accurate cracking pressure
- Zero leakage up to 85% of cracking pressure
- 100% wet leakage tested
- Target proof adjustment
- ISO certifications and CE marking available for most models

Applications

- System overpressure protection
- Storage tanks
- Process recovery systems
- Medical equipment
- Refrigeration & heating equipment
- Measuring & dispensing systems
- Communications equipment
- Process control instruments
- R & D pilot plants

Technical Data

Body/Seat Material	Steel, 316 stainless steel
Body Finish	Smooth, anodized, phosphate, chrome, oilcoat, and others*
Body Mount	1/2" UN, custom sizes
Body	Steel, 316 stainless steel
Seat	Steel, 316 stainless steel
Spring Force	1/2" size 100 to 275 psig (7.0 to 19.0 bar) 1" size 150 to 575 psig (10.3 to 40.0 bar)
Temperature Range	-60 to 300°F (-40 to 150°C) or 200°F (93°C)
Sealant/Leak	Sealant: 2" size & body material, see "Sealant Order" in Tech Notes and brochures Leak: 1/2" size and body type

*See Popoff Manual or contact us to present drawings for coating surface.

Flow & Works



Closed

The specially designed control valve in the downstream piping. The increasing pressure under the valve seat rapidly compresses the spring and prevents leakage. 100% of the cracking pressure. The fluid is held back, and the flow pressure falls. Upon the spring force and pressure, seal deformation.



Open

The rising pressure is limited instantly when the valve pressure exceeds the cracking force and opens the control. Large flow capacity at 80% and 90% of the cracking pressure, which maintains pressure for

Sealing

Sealing: controls cracking amount at 80% to 90% of the cracking pressure under the spring force when in the closed. The spring force when in the closed. The spring force when in the closed. The spring force when in the closed. The spring force when in the closed.

Circle Seal Controls

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relief valves