

RVV VENTED RELIEF VALVE

Functional Symbol

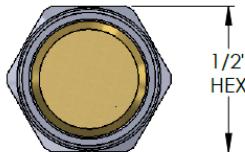


Description:

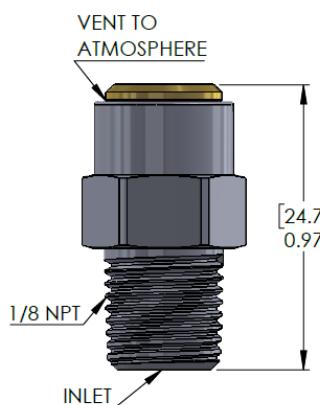
A compact, high-accuracy, direct-acting pressure relief valve engineered for reliable over-pressure protection in demanding hydraulic and pneumatic systems. Each unit is factory-preset to the specified crack pressure and/or flow requirements.

Operation:

The RVV valve remains closed under normal system pressure. When system pressure reaches the preset **crack pressure**, the spring force is overcome and the poppet lifts from its seat, allowing pressure to vent safely to atmosphere.



As system pressure decreases, the poppet reseats once the pressure falls below the calibrated reseat point, determined by the Quad-ring seal and spring characteristics. This results in a narrow reseat band, ensuring stable and predictable pressure control. The internal adjustment mechanism is secured to maintain factory-set performance and eliminate the risk of unintended field adjustment.



Features:

- **Direct-acting design** for fast, accurate response
- **Factory-preset** crack pressure and/or flow settings
- **Tamper-proof internal adjustment** prevents inadvertent pressure changes
- **Vent-to-atmosphere configuration**
- Available in **brass** and **316 stainless steel**
- **Quad-ring seal** provides exceptional accuracy, repeatability, and a narrow reseat band

Ratings:

Parameter	Specification
Set Pressure Range	0.5 to 150 psig (0.03 to 10.34 bar)
Proof Pressure	400 psig (28 bar)
Burst Pressure	>500 psig (34 bar)
Set Pressure Tolerance	< 2 psig (0.14 bar): $\pm 10\%$, 2 to 150 psig (0.14 to 10.3 bar): $\pm 5\%$ (on increasing pressure)
Reseat Characteristics	50% of set pressure for 0.5–1.9 psig (0.03–0.13 bar), 80% of set pressure for 2–10 psig (0.14–0.7 bar), 92% of set pressure for 10–150 psig (0.7–10.3 bar)

Ordering Information:

Temperature Range

–30°F to 250°F (–34°C to 121°C)

Based on Sealing Selection

RVV 125 - N 20 BR				
Model	Port Size	Seal Material	Set Pressure	Material Coating
RVV	125 1/8" NPT	N V	Buna-N Viton	10 10 PSI 20 20 PSI 50 50 PSI 100 100 PSI
				BR Brass SS316 316 SST

*Additional set pressures available by request