

9400 SERIES RELIEF VALVES



9400 Series gas phase industrial relief valves provide cost-effective protection against over-pressurization by blowing off vapor and gases from pipes, pressure vessels, and system components. The relief valve gradually opens as the inlet pressure increases above the set point. The captive seat design minimizes the wetted surface area, reducing possible contamination. The CONCOA 9400 Series industrial relief valve offers excellent discharge capacity and field adjustability, and the unique design provides an accurate cracking pressure with zero leakage up to 98% of the nominal set pressure.



Typical Applications

- Inductively Coupled Plasma (ICP) and ICP-Mas Spec
- Gas Chromatograph Carrier Gases
- Modified Atmosphere Packaging (MAP)
- Bioreactors
- Heating, Cutting, and Welding Piping Systems
- Blanketing Applications

Features

Encapsulated Seal within the Poppet prevents leakage and cold flow

Unique Captive Seat Design decreases wetted surface area to help reduce contamination

High Flow Design minimizes system pressure rise as flow demand increases

Materials and Specifications

Body: Brass

Poppet: 303 Stainless steel

Spring: 302 Stainless steel

Crack Pressure Tolerance: Factory preset \pm 5% on increasing pressure

Relief Flow: Full rated flow @ 110% of nominal set pressure

Proof Pressure: 3700 PSIG (255 BAR)

Burst Pressure: >5000 PSIG (345 Bar)

Conformances: Cleanliness meets or exceeds CGA G-4.1 (excludes 8309415-01-1)

Ordering Information

Part Number	Description	Connections	Seat	Temperature Range
830 9412-01-1	Preset at 220 PSIG (15 BAR)	1/2" MNPT x 1/2" FNPT	FKM	-20°F to 400°F (-30°C to 205°C)
830 9413-01-1	Preset at 500 PSIG (34 BAR)	1/2" MNPT x 1/2" FNPT	FKM	-20°F to 400°F (-30°C to 205°C)
830 9414-01-1	Preset at 100 PSIG (7 BAR)	1/4" MNPT x 1/4" FNPT	Neoprene	40°F to 300°F (-40°C to 150°C)
830 9415-01-1	Preset at 20 PSIG (1.4 BAR)	1/2" MNPT x 1/2" FNPT	Neoprene	-40°F to 300°F (-40°C to 150°C)