

F84M HP Pressure Relief Valve

Set pressure range expansion to 15,000 psig
for high pressure gases

Flow Safe is pleased to announce the extension of coverage of the best-in-class F84M valve by expanding the high end of set pressure range from 9,944 to 15,000 psig (-1 and -2 orifices). This new certification to the higher range of set pressures allows us to serve more industrial gas applications.



Flow Safe's F84M HP is right-sized for capacity, thus mitigating chatter and potential damage to the PRV and/or nearby equipment.



Reduced product loss via a smaller orifice. Additionally, Flow Safe's F84M has adjustable blowdown capability, giving it a tighter operating band.



Flow Safe's best in the industry three-year warranty provides additional peace of mind to end user operations and reduces total cost of ownership.



Utilizing a soft seated Flow Safe PRV allows for end users to operate much closer to set pressure, increasing overall system efficiency.

Benefits

The Flow Safe F84M HP is sourced, built and extensively tested domestically, offers a smaller profile and footprint, and provides a soft seat technology that optimizes cost savings.

The F84M HP valve offers extensive design advantages, including:

- A smaller footprint which utilizes a NB-18 certified orifice diameter to meet customer relieving capacity requirements.
- ASME "UV" stamped PRV.
- Adjustable blowdown capabilities – pressurized spring chamber and optimized huddling chamber ensure that customer-driven blowdown and code-driven set pressure requirements are met. These design features ensure that the PRV provides compliant overpressure protection while minimizing media loss in the case of a relieving event, thus saving customers money.
- Soft seat provides zero leakage seat tightness, preventing media loss during use and allowing customers to run their systems at higher operating pressures, optimizing system efficiencies.
- Precision machined components at tightly designed clearances ensure high quality performance.

Service Envelope

Connections	Inlet Size: 9/16" M/P Coned & Threaded Outlet Size: 1/2" or 3/4" NPT
Set Pressure Ranges	9,945 – 15,000 psig (685 – 1,034 barg)
Temperature Ranges	-423 to 500°F (-252 to 260°C)
Orifice Sizes	-1 and -2
Orifice Area Range	.003 – .015 in ² (1.9 – 9.7 mm ²)
Materials of Construction	316 Stainless Steel Body & Trim XM-19 Bushing Elgiloy Spring Teflon Seals
Seat Materials	Plastic: Polyimide (Vespel®)

Certifications & Compliance

- ASME Sec XIII (NB-18 Cert. No. 28066)
- API 520 (Sizing & Selection of PRV's) / API 527 (Seat tightness of PRV's)
- NACE MR0175 H2S compliant materials available on request
- Canadian CRN (all Provinces per CSA B51)

For more information please contact our sales team today.

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