Redefining Hydrogen Safety



ANDERSON GREENWOOD

Type 84 Pressure Relief Valve: Your Key to Safer and Reliable Overpressure Protection for High-Pressure Gas Applications

Experience Unmatched Performance

The Anderson Greenwood™ Type 84 Pressure Relief Valve delivers exceptional leak-tight performance for high-pressure gas applications up to 21,756 psig / 1500 barg*. It ensures safe and reliable operation of H2 storage and transportation, H2 refueling stations, and other high-pressure gas applications in various industries.

Why Choose the Anderson Greenwood Type 84 PRV?

- **Innovative Design:** Features a unique cartridge assembly design for uniform spring pressure and secure seat sealing.
- Premium Materials: With Arlon[®] 3000 XT (Crosslinked PEEK Thermoplastic) seat material and stainless steel SA479 S21800 spindle material, the Type 84 PRV delivers premium overpressure protection and optimum seat tightness.
- **Safety and Reliability:** Tested on He and N₂ gas at our El Campo, Texas lab and certified by the National Board. Operates up to 90% of set pressure, optimizing processes and enhancing vessel efficiency.
- **Overpressure:** Achieves full capacity with less than 10% overpressure.

 $^{*}\text{H}_{\text{2}}$ and He up to 20,000 psig Arlon® is a mark owned by Greene, Tweed & Co.



Anderson Greenwood Type 84



Unmatched Performance for High-Pressure Gas Applications

Features and Benefits

- · ASME Section VIII and XIII / NB certified capacities for gas
- In compliance with API 527
- Robust design for high-pressure gas applications in hydrogen, air separation, and oil & gas industries



Specifications

Description	Material or Dimension
Size	9/16 in. HP Cone & Thread Female Adaptor Inlet X 3/4 in. FNPT Outlet
	9/16 in. HP Cone & Thread Female Adaptor Inlet X 1 in. FNPT Outlet
Orifice	[-2] 0.012 in. ² / 7.92 mm ²
Orifice diameter	0.125 in. / 3.175 mm
Nozzle coefficient	0.816
Body material	SST SA-479 S31600
Nozzle material	SST SA-479 S20910
Spindle material	SST SA-479 S21800
Seat material	Arlon [®] 3000 XT (Crosslinked PEEK Thermoplastic)
Seal material	NBR, FKM, Ethylene Propylene Diene (EPDM) and Polytetrafluoroethylene (PTFE)
Pressure range (Hydrogen & Helium)	6,000 psig / 413 barg to 20,000 psig / 1,379 barg
Pressure range (All other gases)	6,000 psig / 413 barg to 21,756 psig / 1500 barg
Temperature range	-40°F / -40°C to 300°F / 149°C
NACE compliance	No

Arlon[®] is a mark owned by Greene, Tweed & Co.

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