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 N_2 gas at our El Campo, Texas lab and certified by the National Board. Offers zero leakage at 90% of set pressure, enhancing vessel efficiency and overall process reliability.
- **Overpressure:** Reaches full lift at less than 5% overpressure.

Anderson Greenwood Type 84

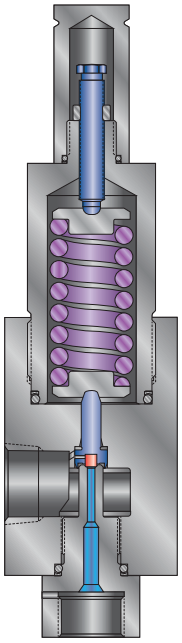
*H_2 and He up to 20,000 psig

EMERSON™

Unmatched Performance for High-Pressure Gas Applications

Features and Benefits

- ASME Section VIII and XIII / NB certified capacities for gas
- Meets API 527 for soft-seated valves
- Robust design for high-pressure gas applications in hydrogen, air separation, and oil & gas industries



Specifications

Description	Material or Dimension
Size	9/16 in. MP/HP Cone & Thread Female Adaptor Inlet X 3/4 in. FNPT Outlet
	9/16 in. MP/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	Nitrile Butadiene Rubber (NBR), Fluorine Kautschuk Material (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 / 1,500 barg
Temperature range	-40°F / -40°C to 300°F / 149°C
NACE compliance	No

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

Emerson

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