



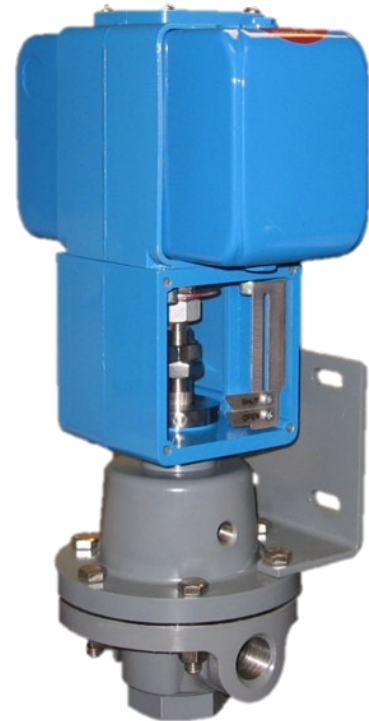
Model PRV-71H Electronically Actuated Pressure Reducing Valve

Hydro Instruments series PRV-71H (electronically actuated version) pressure reducing valve (PRV) is used to reduce and control the gas pressure downstream of the valve. The PRV-71H is designed for chlorine, sulfur dioxide or ammonia gas service.

Adjustment of the reducing valve is done by setting the position of the lock nuts on the failsafe actuator. When powered, the actuator will drive the shaft into operating position and remain there until loss of power or an alarm condition exists to close the valve. In case of diaphragm failure, a 1/4" FNPT vent connection is provided.

The PRV-71H is used to:

1. Prevent liquefaction downstream of the valve.
2. Protect equipment from excessive pressure.
3. Prevent downstream pressure fluctuations.
4. Allow for remote closure in loss of power or alarm conditions.



General Specifications

Maximum Inlet Pressure: 300 psig (21 barg)
 Minimum Inlet Pressure: 45 psig (3.1 barg)
 Outlet Pressure Range: 0-45 psig (0-4.1 barg)
 Operating Temperature: -15 °F (-26 °C) to 150 °F (65 °C)
 Inlet/Outlet Connections: 3/4" FNPT or 1" FNPT
 Vent Connection: 1/4" FNPT
 Mounting: Inline or Wall Mounted
 Maximum Feed Capacity: 12,000 PPD Cl₂(6,000 PPD NH₃)
 227 Kg/hr. Cl₂ (114 Kg/hr. NH₃)
 Power Supply: 120 VAC or 240 VAC +/- 10%
 Relay: 1 N.O. or N.C.; rated for 22 amps

Design & Materials of Construction

Designed with a removable valve capsule for easy maintenance and change of capacity.

- Machined Carbon Steel Bodies
- ECTFE (Halar) Double Diaphragm
- PTFE (Teflon) Valve Seat
- PVDF (Kynar) Valve Plug
- Aluminum Yoke & Actuator Enclosure

Upon loss of power or alarm relay, the pressure reducing valve will automatically close within 6-8 seconds.

Ordering Information

PRV-71H-A-B-C-D-E-IS

A. Gas	B. Capacity	C. Power Option	D. Mounting	E. Inlet/Outlet
Cl ₂ = Chlorine	2 = 8000 PPD Cl ₂ , SO ₂	0 = Manual	0 = None	0 = 3/4" FNPT
SO ₂ = Sulfur Dioxide	(4000 PPD NH ₃)	1 = 120 VAC electric*	1 = Wall	1 = 1" FNPT
NH ₃ = Ammonia	3 = 12000 PPD Cl ₂ , SO ₂	2 = 240 VAC electric*		
	(6000 PPD NH ₃)	*frequency: 50/60 Hz		