



Model PRV-71HIS Electronically Actuated Pressure Reducing Valve

Hydro Instruments series PRV-71HIS (electronically actuated version) pressure reducing valve (PRV) is used to reduce and control the gas pressure downstream of the valve. The PRV-71HIS 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-71HIS 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 Pressure:	600 PSI (41 Bar)
Outlet Pressure Range:	15-45 PSI (1-3 Bar)
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
Feed Capacity:	8,000 PPD Cl ₂ (4,000 PPD NH ₃) 12,000 PPD Cl ₂ (6,000 PPD NH ₃)
Power:	120VAC or 240VAC, 50/60Hz
Relay/Limit Switch:	1 N.O. or N.C., 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—F—IS

A. <u>Gas Type</u>	B. <u>Capacity</u>	C. <u>Power Options</u>	D. <u>Mounting</u>	E. <u>Connections</u>	F. <u>Heater</u>
Cl ₂ = Chlorine	2 = 8,000 PPD Cl ₂ , SO ₂	0 = Manual	0 = None	0 = 3/4" NPT	0 = None
SO ₂ = Sulfur Dioxide	(4,000 PPD NH ₃)	1 = 120VAC 50/60Hz	1 = Wall Mounting	1 = 1" NPT	1 = 120VAC
NH ₃ = Ammonia	3 = 12,000 PPD Cl ₂ , SO ₂	2 = 240VAC 50/60Hz			2 = 240VAC
	(6,000 PPD NH ₃)				

