Model PRV-71H
Pressure Reducing Valve

Hydro Instruments series PRV-71H (manual 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.

Manual adjustment of the upper end cap allows the operator to set and control the outlet gas to a fixed pressure. Adjustment is effected by the compression of a spring to a height that will control the outlet pressure to the desired level. In the case of a 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.

General Specifications

Maximum Inlet Pressure:	300 psig (21 barg)
Minimum Inlet Pressure:	45 psig (3.1 barg)
Outlet Pressure Range:	0-45 psig (0-3.1 barg)
Operating Temperature:	-15 ˚F (-26 ˚C) to 225 ˚F (107 ˚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 Cl_2(6,000 PPD NH_3)
	227 Kg/hr. Cl_2 (114 Kg/hr. NH_3)

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

Should the downstream pressure exceed the control pressure setting, the diaphragm will move to close the valve, shutting off the gas flow.

Ordering Information

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

A. Gas	B. Capacity	C. Power Option	D. Mounting	E. Inlet/Outlet
Cl2 = Chlorine	2 = 8000 PPD Cl_2, SO_2 (4000 PPD NH_3)	0 = Manual	0 = None	0 = 3/4" FNPT
SO2 = Sulfur Dioxide		1 = 120 VAC electric*	1 = Wall	1 = 1" FNPT
NH3 = Ammonia	3 = 12000 PPD Cl_2, SO_2 (6000 PPD NH_3)	2 = 240 VAC electric*		
		*frequency: 50/60 Hz		

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