



Pressure Reducing Valve Manual & Electrically Actuated

The Hydro Instruments pressure reducing valve is used to reduce and control the gas pressure downstream of the valve. Should the downstream pressure exceed the pressure setting the pressure reducing valve will close, shutting off gas feed. Having the pressure reducing valve in the chemical feed line can prevent liquefaction downstream of the valve, protect equipment from excessive pressure and eliminate downstream pressure fluctuations.

Manual Pressure Reducing Valves

Outlet pressure is fixed. Adjustment of the pressure outlet for manual units is accomplished by adjusting a threaded adjustment screw at the top of the PRV.

Electrically Actuated Pressure Reducing Valves

Outlet pressure is fixed. However, electrically actuated units allow for remote closure in either loss of power or alarm conditions. Adjustment of the pressure outlet for electrically actuated units is accomplished by adjusting two locknuts on the actuator ram-shaft.

Specifications

Manual & Electrically Actuated Pressure Reducing Valves

Max. Capacity: 16,000 PPD Cl₂ or 8,000 NH₃

Max. Pressure: 600 PSI (41 bar)

Outlet Pressure: 15-45 (1-3 bar)

Operating Temp.: -15° F (-26° C) to 150° F (65° C)

Connections: 3/4" FPT or 1" FPT
1/4" FPT for vent

Mounting: Inline or wall mounted with bracket

Heater Power: 120VAC or 240VAC

Electrically Actuated Pressure Reducing Valves

Actuator Power: 120VAC or 240VAC

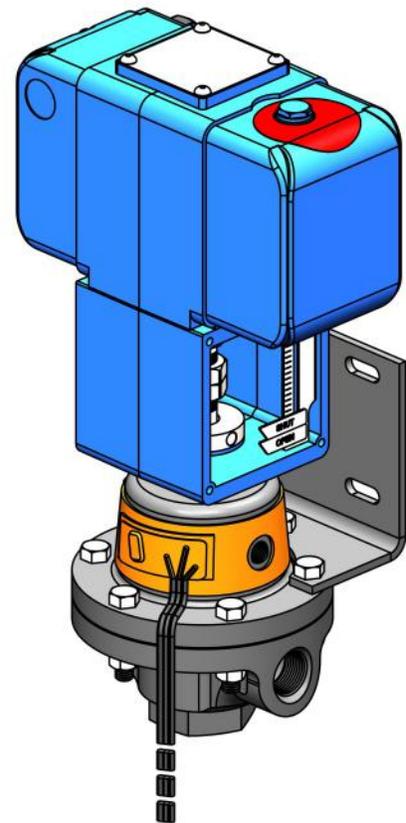
Relay: SPDT, 22 Amps

Materials of Construction & Design

- Machined carbon steel bodies
- Halar (ECTFE) double diaphragm
- Teflon (PTFE) trim valve seat
- Kynar (PVDF) trim valve stem
- Actuator—Aluminum mounting frame and enclosure

The pressure reducing valve has been designed with an easily removable trim capsule assembly for easy maintenance and change of capacity. An external heater is included to help avoid external condensation and resultant external corrosion in humid climates. A 1/4" FPT vent connection is provided on both units in the event of diaphragm failure.

Upon loss of power or alarm, electrically actuated pressure reducing valves will automatically close within 5.5 seconds.



*Electrically Actuated Pressure Reducing Valve
with Wall Mounting Bracket*



Ordering Information

Model: PRV-71H—A—B—C—D—E—F—G

Position	Feature	Description
A. Gas Type	CL2	Chlorine
	SO2	Sulfur Dioxide
	NH3	Ammonia
	CO2	Carbon Dioxide
B. Capacity	2	8,000 PPD Cl ₂ , SO ₂ or 4,000 PPD NH ₃
	3	12,000 PPD Cl ₂ , SO ₂ or 6,000 PPD NH ₃
	4	16,000 PPD Cl ₂ , SO ₂ or 8,000 PPD NH ₃
C. Power Option	0	Manual
	1	Electrically actuated (120 VAC)
	2	Electrically actuated (240 VAC)
D. Mounting	0	None
	1	Wall mounting bracket
E. Inlet/Outlet	0	3/4" Female NPT
	1	1" Female NPT
F. Heater	1	120 VAC
	2	240 VAC
G. Indicator Light	0	None
	1	Included

