



Model PRV-71HIS Pressure Reducing Valve

Hydro Instruments series PRV-71HIS (manual 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.

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-71HIS is used to:

1. Prevent liquefaction downstream of the valve.
2. Protect equipment from excessive pressure.
3. Prevent downstream pressure fluctuations.



General Specifications

Maximum Pressure: 600 PSI (41 Bar)
 Outlet Pressure Range: 15-45 PSI (1-3 Bar)
 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
 Feed Capacity: 8,000 PPD Cl₂ (4,000 PPD NH₃)
 12,000 PPD Cl₂ (6,000 PPD NH₃)

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—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) | | | | |





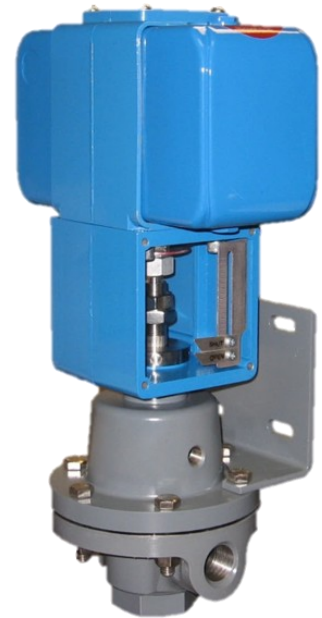
Model PRV-71HIS Electronically Actuated Pressure Reducing Valve

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) | | | | |



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