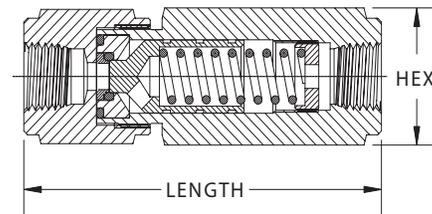




Figure 1: Inline Relief Valve

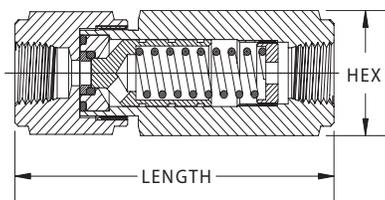


Gilmore’s Pneu-Hydro Relief Valves provide reliable performance in a compact package with a wide range of available relief set points.

Utilizing an elastomeric O-ring seal on the poppet and a metallic positive stop to carry the spring pre-load, this simple design provides reliable settings, predictable performance, and prolonged service life. The standard valve is constructed of 316 stainless steel for strength and durability in the most corrosive applications.

Features & Benefits

- Wide set range from a single part number
- Precise factory set relief pressure per customer specification
- Relief pressure easily set by internal adjustment
- Tamper proof adjustment
- Smooth, chatter-free performance
- Reliable and repeatable cracking and reseating pressures
- Standard seal materials are Buna-N and Viton
- Seal material selections are available for compatibility with virtually any fluid chemistry



FUNCTIONAL DESIGN SPECIFICATION

| | |
|--|--------------------|
| Operating Pressure Range - Type 401 | 50 - 3,000 psi |
| Operating Pressure Range - Type 402 | 3,000 - 10,000 psi |
| Operating Temperature Range - Buna N Seals | -40° F to 250° F |
| Operating Temperature Range - Viton Seals | -20° F to 400° F |

| Part Number | Connections | Cv | Length (In) | Hex (In) | Pressure Range (psi) | Dash # |
|--------------------------|-------------|-----|-------------|----------|----------------------|--------|
| PH401F4Q- ^{1,2} | 1/4" NPTF | 0.6 | 3.0 | 0.94 | 50-250 | -1 |
| PH401F6Q- ^{1,2} | 3/8" NPTF | 1.3 | 4.25 | 1.38 | 250-600 | -2 |
| PH401F8Q- ^{1,2} | 1/2" NPTF | 1.3 | 4.61 | 1.38 | 500-1,750 | -3 |
| PH401M4Q- ^{1,2} | 1/4" NPTM | 0.6 | 3.5 | 0.94 | 1,500-3,000 | -4 |
| PH402F4Q- ² | 1/4" NPTF | 0.6 | 4.5 | 1.38 | 3,000-10,000 | N/A |
| PH402F8Q- ² | 1/2" NPTF | 0.6 | 4.67 | 1.38 | 3,000-10,000 | N/A |

STANDARD REPAIR KITS

| Repair Kit Part Number | For Valve Part Number | Pressure Range (psi) | Dash # | Spring Color |
|--------------------------|-----------------------|----------------------|--------|--------------|
| PH613652- ^{1,2} | PH401F6Q | 50-250 | -1 | Lt Green |
| | PH401F8Q | 250-600 | -2 | Brown |
| | | 500-1,750 | -3 | Brown |
| | | 1,500-3,000 | -4 | Uncoated |
| PH614114- ^{1,2} | PH401F4Q | 50-250 | -1 | Yellow |
| | PH401M4Q | 250-600 | -2 | Uncoated |
| | | 500-1,750 | -3 | Red |
| | | 1,500-3,000 | -4 | Uncoated |
| PH613760- ² | PH402F4Q | 3,000-10,000 | N/A | Uncoated |
| | PH402F8Q | | | |

¹ Dash number for pressure range must be included with part number

² Buna-N standard elastomer - Include "V" with part number for Viton

401 and 402 Series Flow Data

