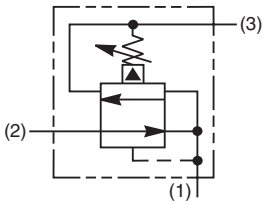
## General Description

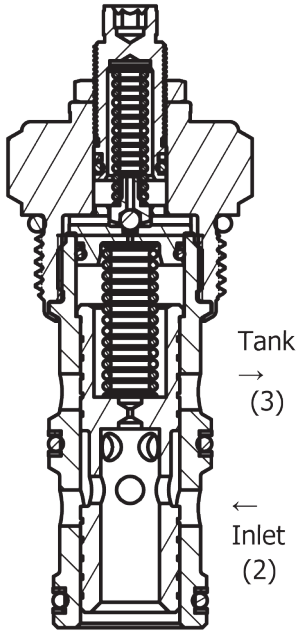
Pilot Operated Pressure Reducing/Relieving Valve. For additional information see Technical Tips on pages PC3-PC7.

## Features

- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided poppet for more consistant reseat
- All external parts zinc plated






Reg. ↓ (1) ↑ Relief

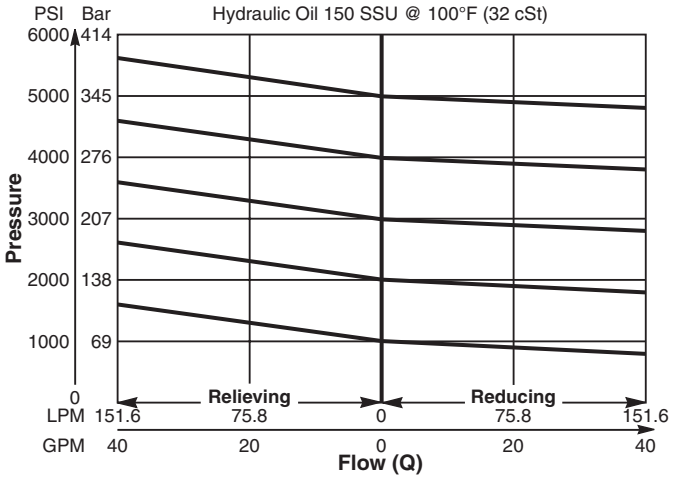
## Specifications

| | |
|---|---|
| Rated Flow | 151.4 LPM (40 GPM) |
| Maximum Inlet Pressure | 380 Bar (5500 PSI) |
| Maximum Pressure Setting | 350 Bar (5000 PSI) |
| Sensitivity: Pressure/Turn | **10** 19.6 Bar (285 PSI)<br>**30** 58.9 Bar (859 PSI)<br>**50** 131.7 Bar (1910 PSI) |
| Maximum Tank Pressure | 350 Bar (5000 PSI) |
| Reseat Pressure | 90% of crack pressure |
| Leakage at 150 SSU (32cSt) | 5cc per 6.8 Bar (100 PSI) setting |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. Range/Seals | -34°C to +121°C (Nitrile)<br>(-30°F to +250°F)<br>-26°C to +204°C (Fluorocarbon)<br>(-15°F to +400°F) |
| Fluid Compatibility/ Viscosity | Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt) |
| Filtration | ISO-4406 18/16/13, SAE Class 4 |
| Approx. Weight | 0.34kg (0.75 lbs.) |
| Cavity | C16-3<br>(See BC Section for more details) |

## Performance Curve

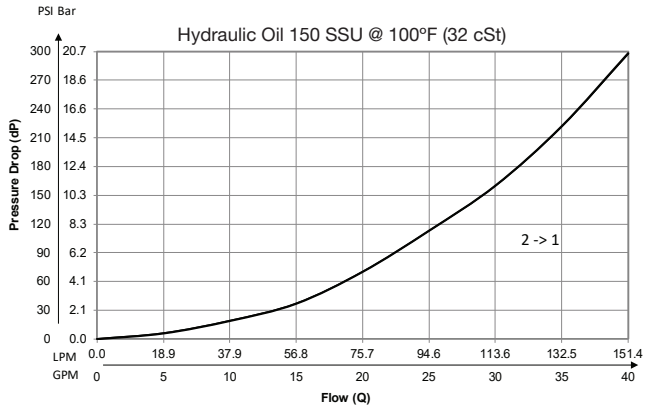
### Flow vs. Regulated Pressure

(Pressure rise through cartridge only)

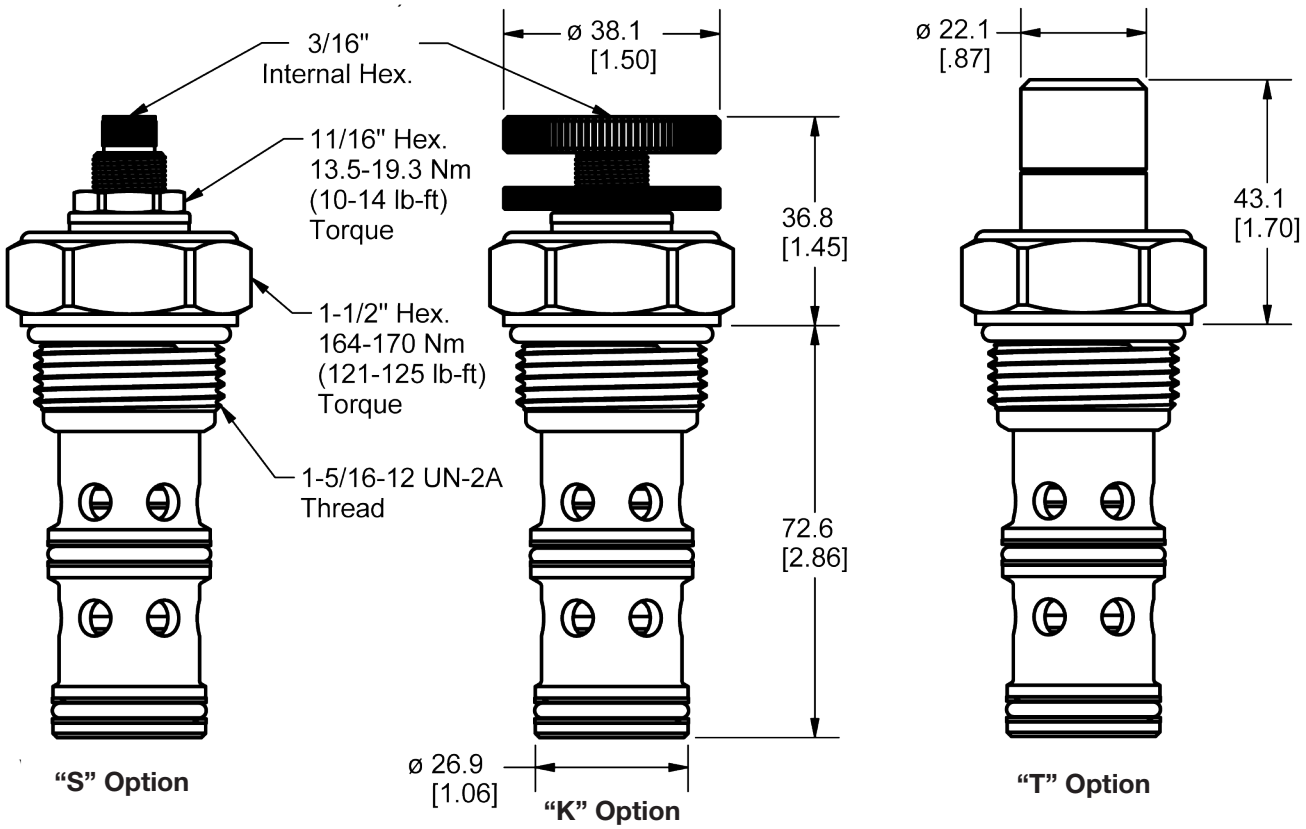



### Pressure Drop vs. Flow

(Through cartridge only)



## Dimensions Millimeters (Inches)




## Ordering Information

| PRH161 | S | |
|---|---|---|
| 16 Size P.O. Pressure Reducing/Relieving Valve | Adjustment Style | Pressure Range |

**Highlighted** represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

| Code | Adjustment Style |
|---|---|
| S | Screw Adjust |

| Code | Seals |
|---|---|
| Omit | Nitrile |

| Code | Pressure Range |
|---|---|
| 10 | 6.9 - 69 Bar (100 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI) |
| 30 | 20.7 - 207 Bar (300 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI) |
| 50 | 34.5 - 345 Bar (500 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI) |

*Order Bodies Separately See section BC*

| B16 | – | 3 | – | 16T |
|---|---|---|---|---|
| 16 size | | 3-Way Cavity | | Port Size |

| Code | Porting / Body Material |
|---|---|
| 16T | SAE-16 / Steel (5000 PSI) |

| Kit | Part Number |
|---|---|
| Knob | 717784-15 |
| Tamper Resistant Cap | 717785 |
| Nitrile Seal | SK16-3 |
| Fluorocarbon Seal | SK16-3V |