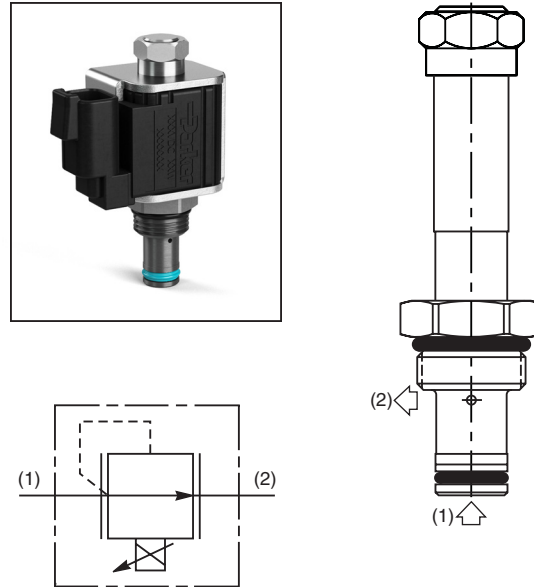


General Description

Proportional Relief Valve. Increasing Pressure With Increasing Current. For additional information see Technical Tips on pages PV2-PV5.

Features

- Analog Proportional Relief Valve regulates pressure proportionally to the solenoid current
- Direct acting poppet design
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O’Rings; Symmetrical coil can be reversed without affecting performance.

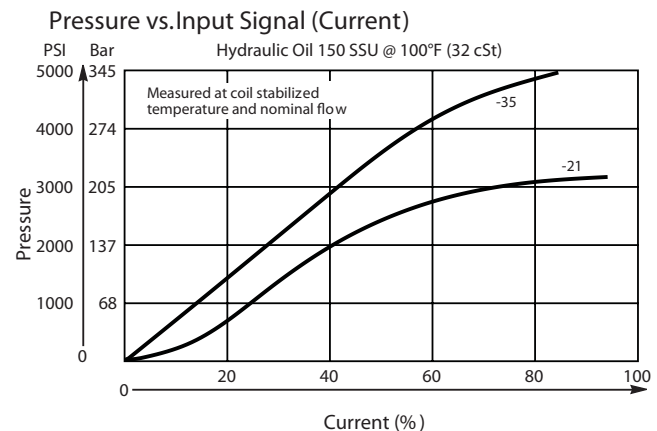
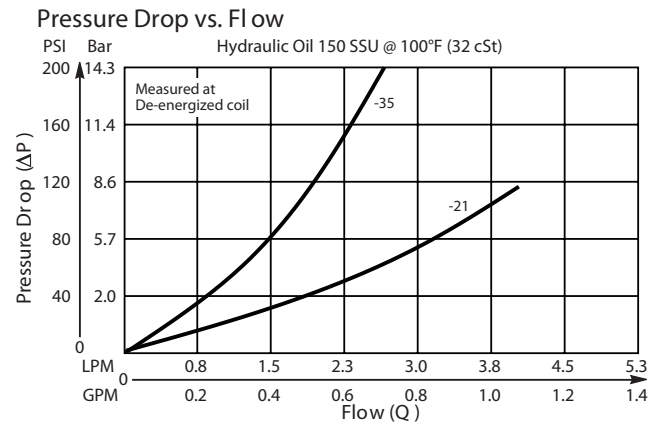


Specifications

| | | |
|---|--|--------------------|
| Rated Flow (At 70 PSI ΔP) | 21C | 3.0 LPM (0.8 GPM) |
| | 35C | 1.3 LPM (.35 GPM) |
| Max. Pressure At Port 1 @ 75% Input Current | 21C | 210 Bar (3000 PSI) |
| | 35C | 350 Bar (5000 PSI) |
| Port 2 Pressure Limit | 103 Bar (1000 PSI) | |
| Hysteresis @ 200 Hz PWM | 5% | |
| Cracking Pressure | 21C | 0.21 Bar (3 PSI) |
| | 35C | 0.35 Bar (5 PSI) |
| Cartridge Material | All parts steel. All operating parts hardened steel. | |
| Operating Temp. Range/Seals | -37°C to +93°C (“D”-Ring) (-35°F to +200°F) -34°C to +121°C (Nitrile Buna-N) (-30°F to +250°F) -26°C to +204°C (Fluorocarbon) (-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 | 0.06 kg (0.14 lbs.) | |
| Cavity | C08-2 (See BC Section for more details) | |

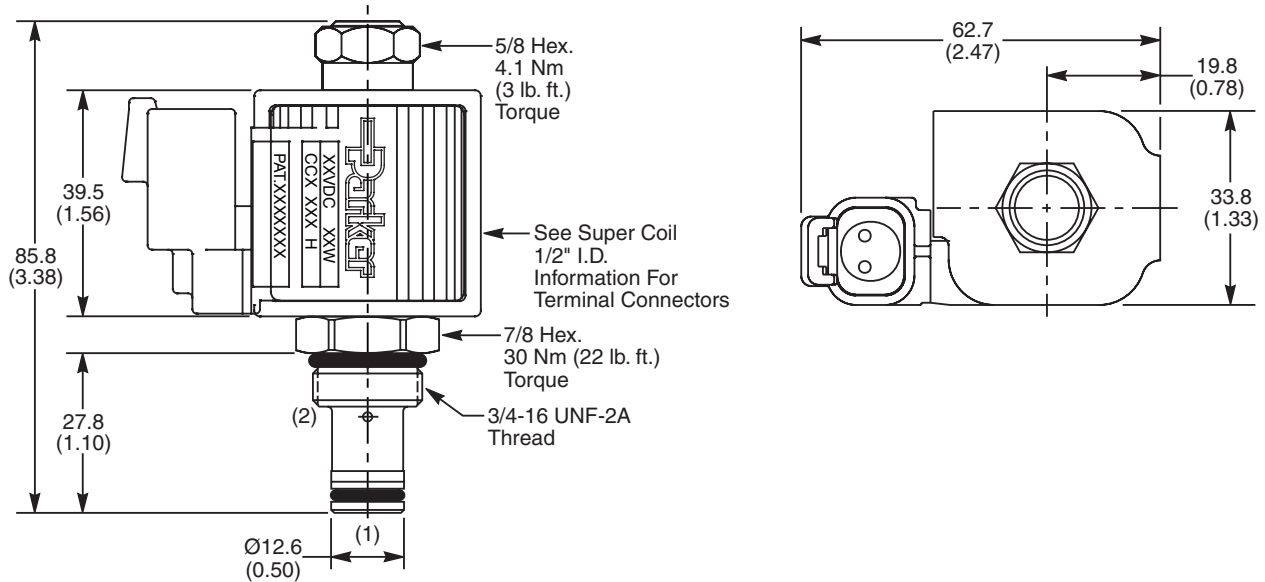
Performance Curves

▲ PWM Current Regulator Recommended



| |
|----------------------|
| CV |
| Check Valves |
| SH |
| Shuttle Valves |
| LM |
| Load/Motor Controls |
| FC |
| Flow Controls |
| PC |
| Pressure Controls |
| LE |
| Logic Elements |
| DC |
| Directional Controls |
| SV |
| Solenoid Valves |
| PV |
| Proportional Valves |
| CE |
| Coils & Electronics |
| BC |
| Bodies & Cavities |
| TD |
| Technical Data |

Dimensions Millimeters (Inches)



Ordering Information

AP02B2YP

08 Size Proportional Relief Valve

Max Relief Setting

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

Coil(s) sold separately. Please see section CE of this catalog, 1/2" Super-Coil (CC series), for ordering information.

| Code | Max Relief Setting |
|------|--------------------|
| 21C | 210 Bar (3000 PSI) |
| 35C | 350 Bar (5000 PSI) |

| Code | Seals |
|------|----------|
| Omit | "D"-Ring |

Order Bodies Separately
 See section BC

B08 - **2** - **6T**

08 size 2-Way Cavity Port Size

| Code | Porting / Body Material |
|------|--------------------------|
| 6T | SAE-6 / Steel (5000 PSI) |

| Kit | Part Number |
|-------------------|-------------|
| D-Ring Seal | SK08-2 |
| Nitrile Seal | SK08-2 |
| Fluorocarbon Seal | SK08-2V |

| | |
|----|----------------------|
| CV | Check Valves |
| SH | Shuttle Valves |
| LM | Load/Motor Controls |
| FC | Flow Controls |
| PC | Pressure Controls |
| LE | Logic Elements |
| DC | Directional Controls |
| SV | Solenoid Valves |
| PV | Proportional Valves |
| CE | Coils & Electronics |
| BC | Bodies & Cavities |
| TD | Technical Data |