

## General Description

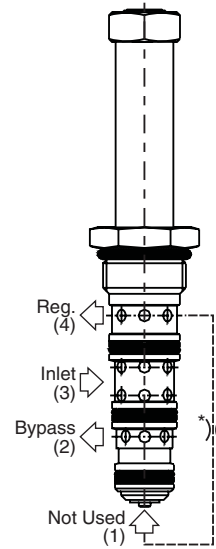
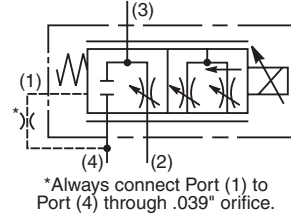
3 Way, Normally Closed, Proportional Flow Regulator Valve. Pressure Compensated. For additional information see Technical Tips on pages PV2-PV5.

## Features

- Analog proportional pressure compensated flow control valve regulates flow proportionally to the input solenoid current
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Symmetrical coil can be reversed without affecting performance.
- Nonmagnetic spool and housing assembly
- Factory-adjusted low variation option (Model "L") is available for applications where low variation of flow from valve to valve is essential at a given current.

## Specifications

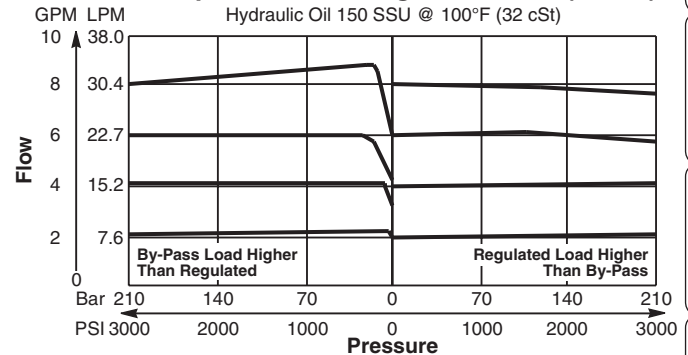
Rated Inlet Flow	60 LPM (16 GPM)
Rated Regulated Flow	<b>31</b> 26 LPM (7 GPM) Standard ('SS' Coil) <b>31</b> 30 LPM (8 GPM) High Flow ('SP' Coil)
Maximum Input Pressure at Port 3	210 Bar (3000 PSI)
Minimum Pressure Differential	<b>31</b> 13.8 Bar (200 PSI) Standard <b>31</b> 20.7 Bar (300 PSI) High Flow
Maximum Internal Leakage	780 cc (46 cu. in.) @ 210 Bar (3000 PSI)
Hysteresis @ 100 Hz PWM	7%
Opening Point	<b>Standard</b> 21% of Nominal Amperage <b>High Flow</b> 17% of Nominal Amperage
Variation of Opening Point	<b>Model "L"</b> ±20% of Amperage
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-34°C to +121°C (Nitrile) (-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	0.14 kg (0.31 lbs.)
Cavity	4C (See BC Section for more details)



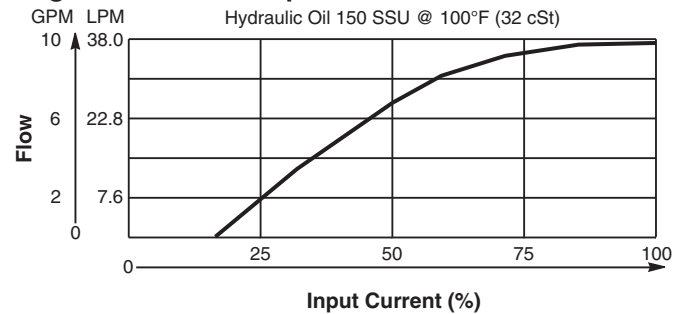
## Performance Curves

### ▲ PWM Current Regulator Recommended

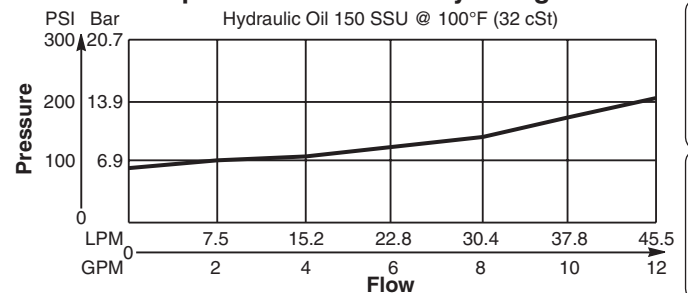
#### Pressure Compensation of Regulated Flow (Port 4)



#### Regulated Flow vs. Input Current Stabilized

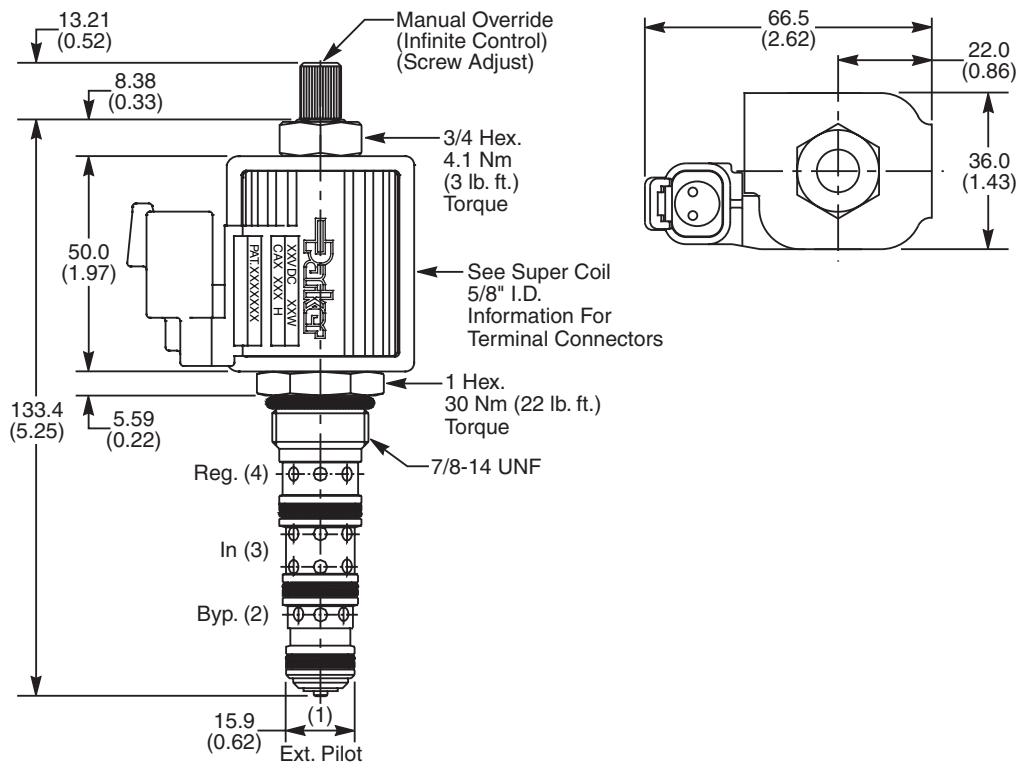


#### Pressure Drop vs. Flow at Coil Fully Energized



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

Dimensions    Millimeters (Inches)



Ordering Information

<b>JP04C</b>	<b>31</b>		<b>0</b>	<b>N</b>	<b>L</b>
10 Size Proportional Valve	Style	Override Option	Filter Screen	Seals	Flow Variation

**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, 5/8" Super-Coil (CA series), for ordering information.

Code	Style (Maximum Regulated Flow)
31	Standard ('SS' Coil) 26 LPM (7 GPM)
31	High Flow ('SP' Coil) 30 LPM (8 GPM)

Code	Override Option
0	Not Required
5	Screw Adjust (Infinite Control)

Code	Filter Screen
0	Not Available

Code	Seals
N	Nitrile

Code	Flow Variation
L	Low Variation (±7% of Rated Flow)

Kit	Part Number
Nitrile Seal	SK30082N-1
Fluorocarbon Seal	SK30082V-1

Order Bodies Separately  
See section BC

<b>LB10</b>	<b>562</b>	<b>S</b>
Line Body	Porting	Body Material

Code	Porting
562	1/2" SAE Steel (5000 PSI)