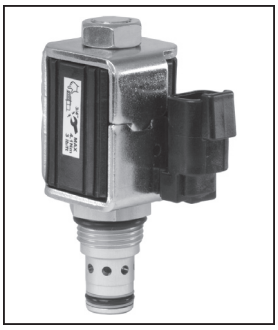
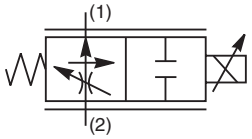
General Description

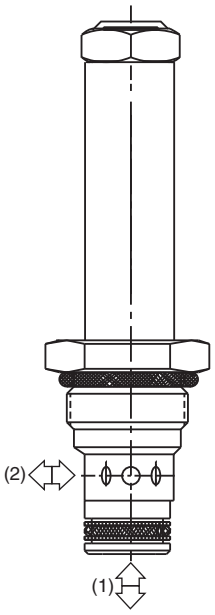
2 Way, Normally Open, Proportional Flow Regulator Valve. Partially Pressure Compensated. For additional information see Technical Tips on pages PV1-PV6.

Features

- Analog Proportional Partially Pressure Compensated Flow Regulator regulates flow proportionally to the input solenoid current
- The valve is designed to be used in applications where fine pressure compensation is not required and an economical solution is important
- 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 or when an external pressure compensator is used.







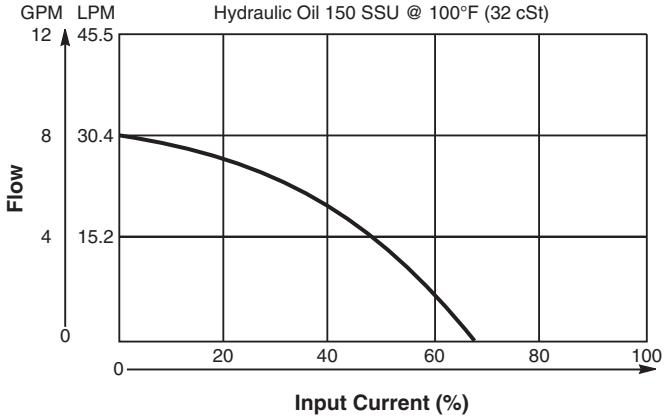
Specifications

Rated Flow @ 210 Bar (3000 PSI)	30 LPM (8 GPM)
Hysteresis @ 100 Hz PWM	<10%
Closing Point	65% of Rated Current
Variation of Closing Point	**Standard Model** Up To ±5% Of Rated Current **Model "L"** ±2% Of Rated Current
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	.12 kg (.26 lbs.)
Cavity	C10-2 (See BC Section for more details)

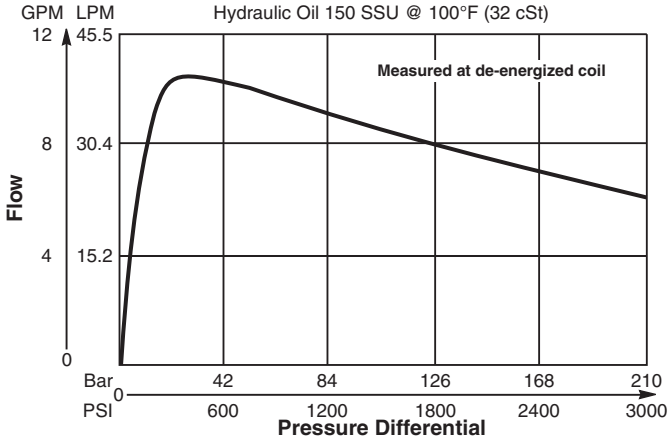
Performance Curves

▲PWM Current Regulator Recommended

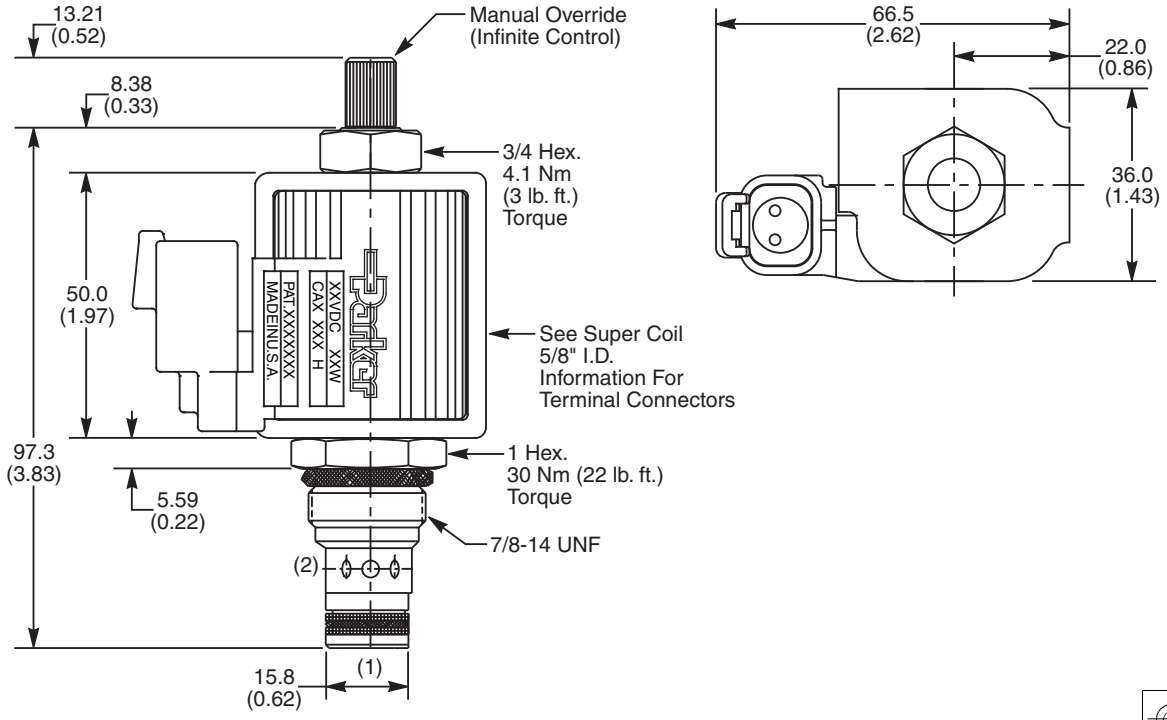
Flow vs. Input Current



Flow Regulation



Dimensions Millimeters (Inches)



Ordering Information

HP04P	21								—		
10 Size Proportional Valve	Style	Override Option	Filter Screen	Seals	Opening Point Variation	Coil Type	Coil Voltage	Coil Termination		Body Material	Port Size

Code	Style (Maximum Regulated Flow)
21	High Flow ('SP' Coil) 30 LPM (8 GPM)

Code	Override Option
0	Not Required
5	Infinite Control M.O.

Code	Filter Screen
0	Not Available

Code	Seals / Kit No.
N	Nitrile / Buna-N (Std.) (SK30503N-1)
V	Fluorocarbon / (SK30503V-1)

Code	Flow Variation
Omit	Standard Up to ±5% of Current Flow
L	Low Variation (±2% of Current Flow)

Code	Coil Type
Omit	Without Coil
SP	Super Coil - 28 Watts

Code	Coil Voltage
Omit	Without Coil
D012	12 VDC
D024	24 VDC

Code	Coil Termination
Omit	Without Coil
A	Amp Jr. Timer*
C	Conduit With Leads
D	DIN Plug Face
H	Molded Deutsch*
L	Dual Lead Wire*
PF	Packard Female*
PM	Packard Male*
S	Dual Spade*

See Super Coil 5/8" I.D.
****DC Only***

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
6T	SAE-6	(B10-2-*6T)
8T	SAE-8	(B10-2-*8T)

**** Add "A" for aluminum, omit for steel.***