

Technical Information

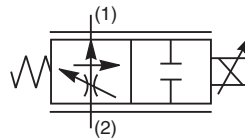
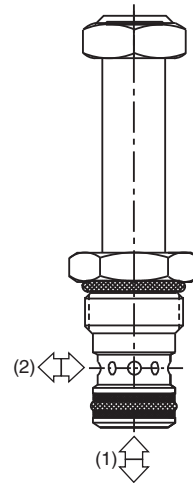
- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bodies & Cavities
- TD** Technical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

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.



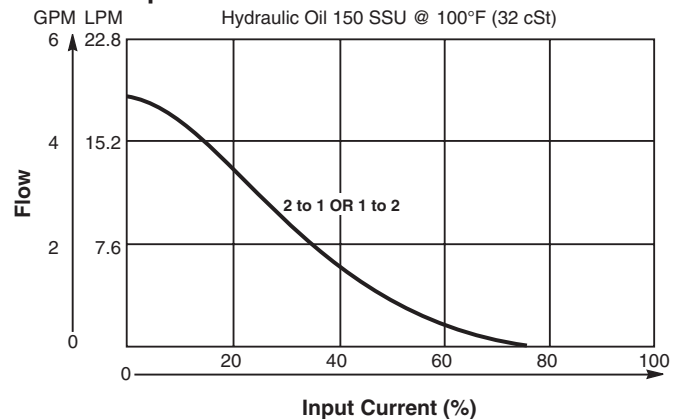
Specifications

Rated Flow @ 210 Bar (3000 PSI)	2 to 1 19 LPM (5 GPM)
Preferable Input Port For Best Hysteresis	Port 1
Hysteresis @ 100 Hz PWM	<10%
Variation of Flow @ 35% of Rated Current & Constant ΔP Maintained By Pressure Compensator	Standard Model Up To ±20% Of Rated Flow Model “L” ±7% Of Rated Flow
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	.08 kg (.17 lbs.)
Cavity	2X (See BC Section for more details)

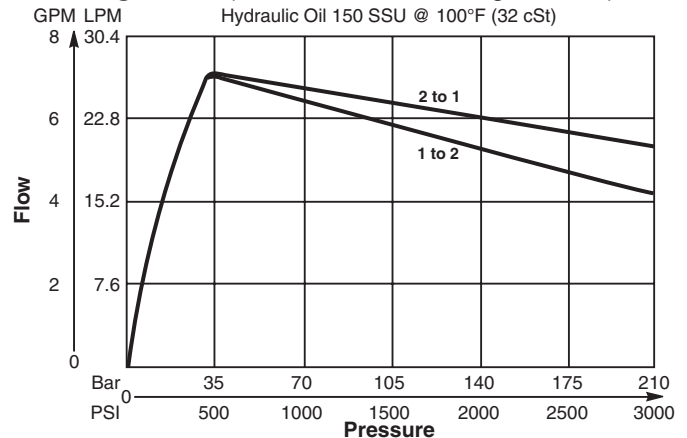
Performance Curves

▲ PWM Current Regulator Recommended

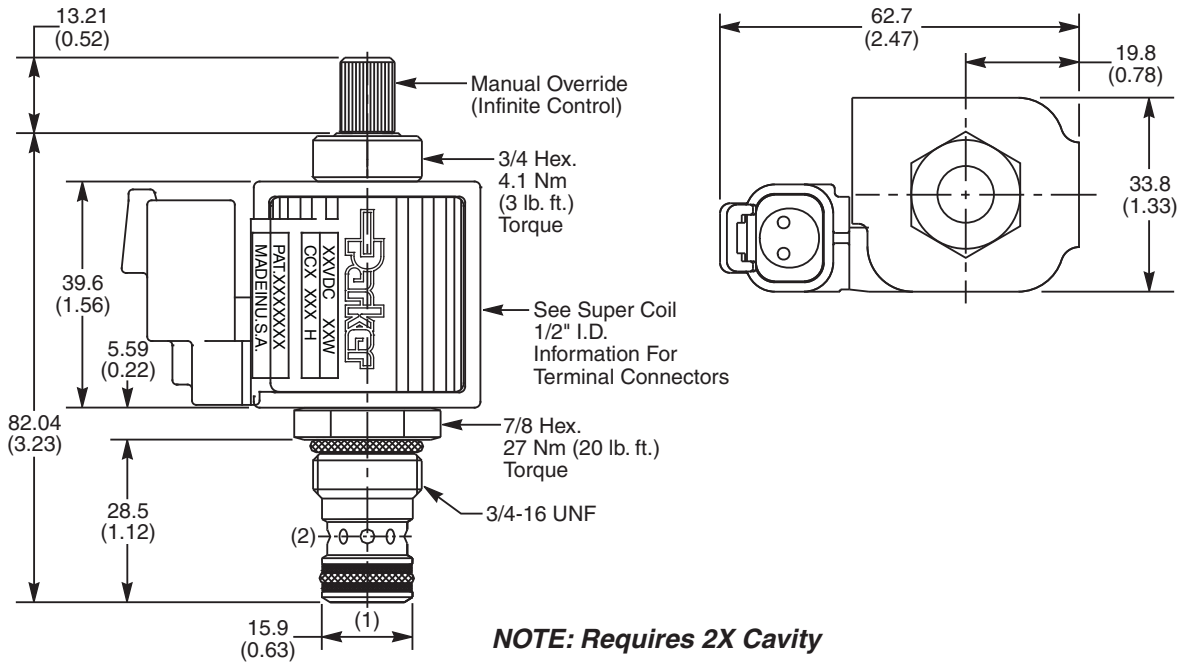
Flow vs. Input Current



Flow Regulation (Measured at De-Energized Coil)



Dimensions Millimeters (Inches)



Ordering Information

HP02P **21**

08 Size Proportional Valve Style Override Option Filter Screen Seals Flow Variation Coil Type Coil Voltage Coil Termination

Code	Style (Maximum Regulated Flow)
21	High Flow (*SP* Coil) 19 LPM (5 GPM)

Code	Filter Screen
0	Not Available

Code	Flow Variation
Omit	Standard Up to ±20% of Rated Flow
L	Low Variation (±7% of Rated Flow)

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

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

Code	Seals / Kit No.
N	Nitrile / Buna-N (Std.) (SK30076N-1)
V	Fluorocarbon / (SK30076V-1)

Code	Coil Type
Omit	Without Coil
SP	Super Coil - 19 Watts

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 1/2" I.D.
 *DC Only

Order Bodies Separately

LB10

Line Body Porting Body Material

Code	Porting
513	3/8" SAE

Code	Body Material
A	Aluminum
S	Steel