

General Description

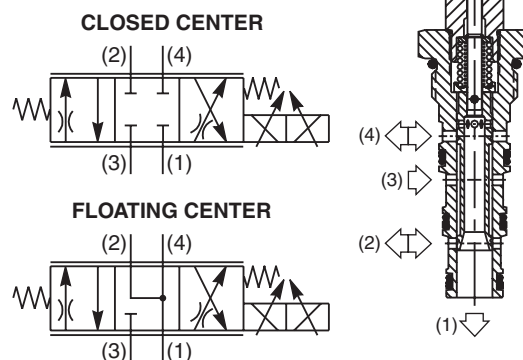
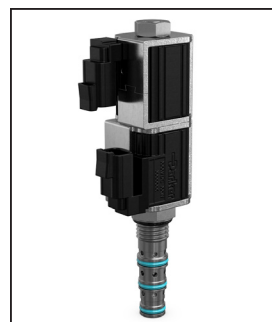
4 Way, 3 Position, Proportional Directional Control Valve. Closed Center or Floating Center Spool.
 For additional information see Technical Tips on pages PV2-PV5.

Features

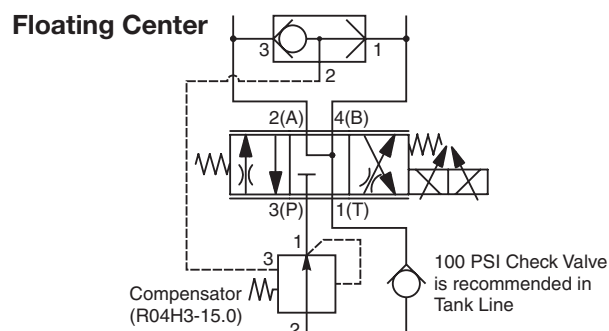
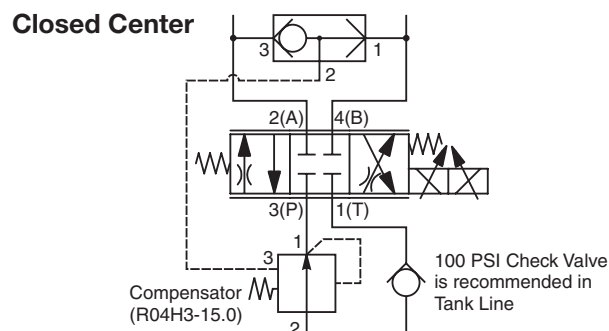
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O'Rings; Symmetrical coil can be reversed without affecting performance.
- All external parts zinc plated

Specifications

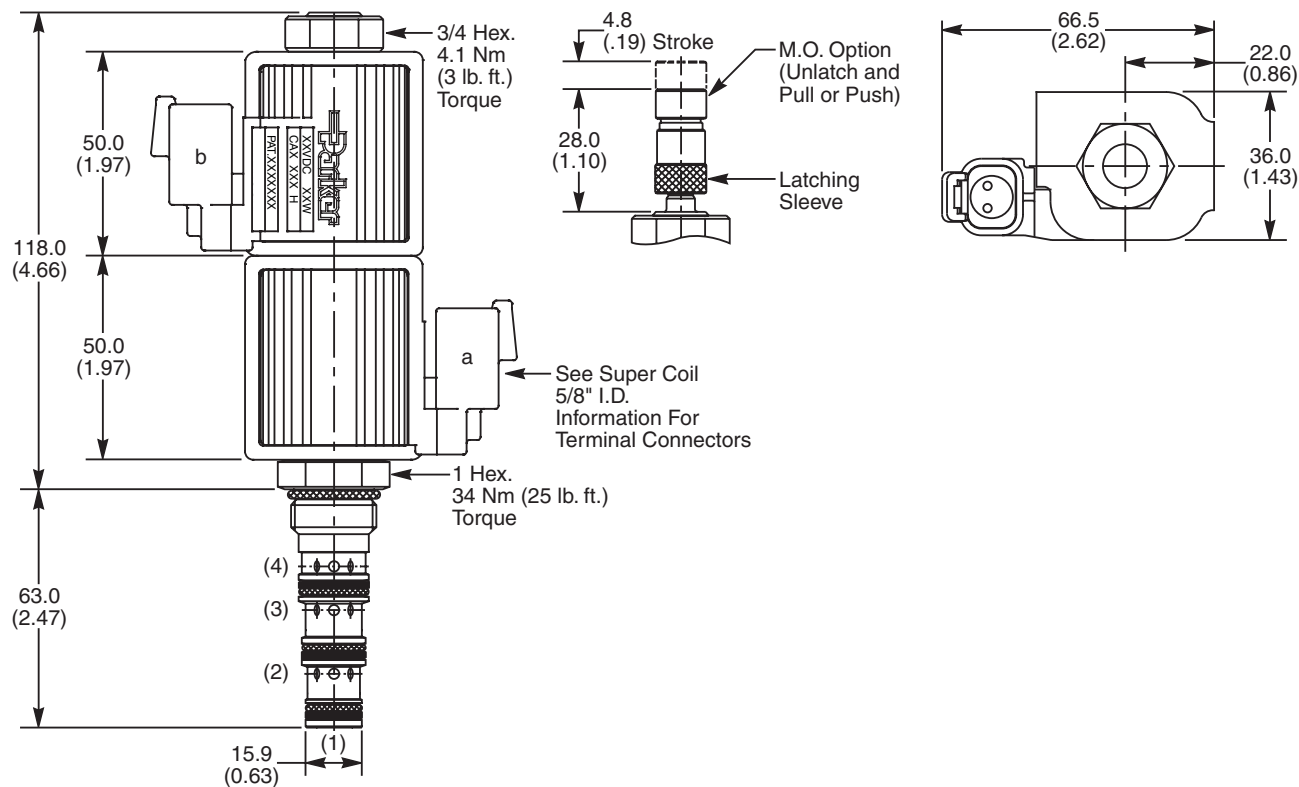
Operating Pressure	210 Bar (3000 PSI)
Hysteresis @ 100 Hz PWM	<6%
Cracking Flow	25% to 30% of Input Signal
Variation of Flow	±15% @ 75% of Nominal Current and Constant ΔP Maintained by Pressure Compensator
Port to Port Leakage	10 cu. in. @ 3000 PSI
Step Response Time at 75% of Amps	On 50 ms Off 40 ms
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) (-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	0.28 kg (0.57 lbs.)
Cavity	C10-4 (See BC Section for more details)



Sample Application Circuit



Dimensions Millimeters (Inches)



Ordering Information

DSP105		
10 Size Proportional Valve	Style	Override Option

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" Coil (CA series), for ordering information.

Code	Style
C1	
C4	

Code	Seals
Omit	"D"-Ring

Order Bodies Separately
See section BC

B10	—	4	—	8T
10 size		4-Way Cavity		Port Size

Code	Porting / Body Material
8T	SAE-6 / Steel (5000 PSI)

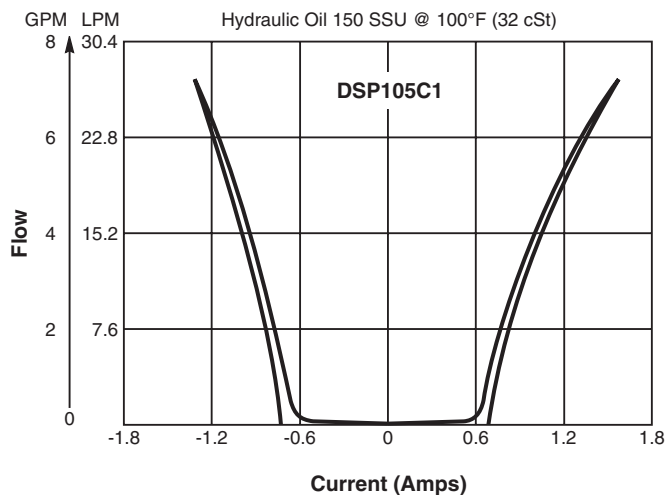
Code	Override Options
Omit	None
M	Push/Pull

Kit	Part Number
D-Ring Seal	SK10-4
Nitrile Seal	SK10-4
Fluorocarbon Seal	SK10-4V

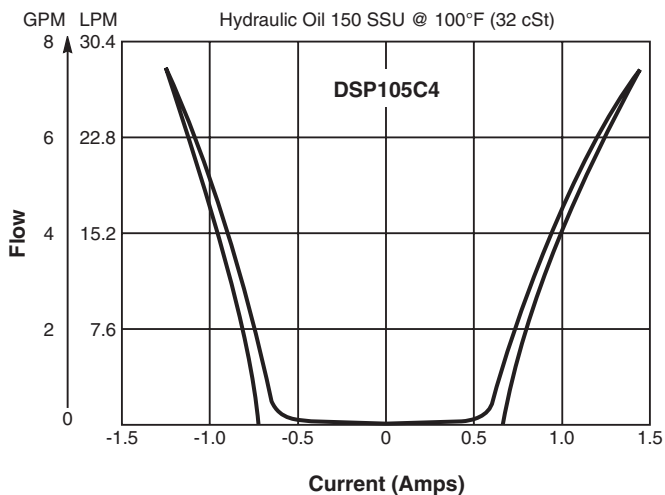
CV
Check Valves
SH
Shuttle Valves
LM
Load/Motor Controls
FC
Flow Controls
PC
Pressure Controls
LE
Logic Elements
DC
Directional Controls
SV
Solenoid Valves
PV
Proportional Valves
CE
Coils & Electronics
BC
Bodies & Cavities
TD
Technical Data

▲ PWM Current Regulator Recommended

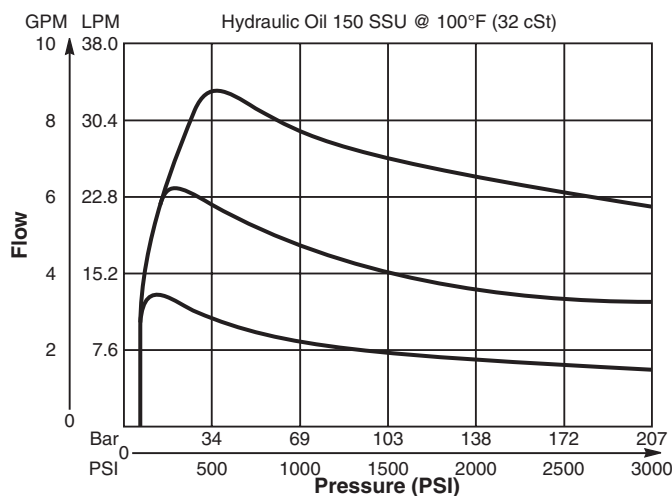
C1 With 15 Bar, 220 PSI Compensator and SP Coil



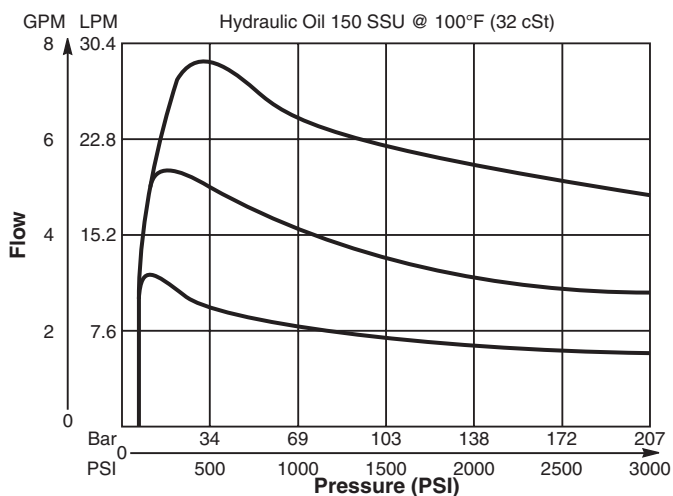
C4 With 15 Bar, 220 PSI Compensator and SP Coil



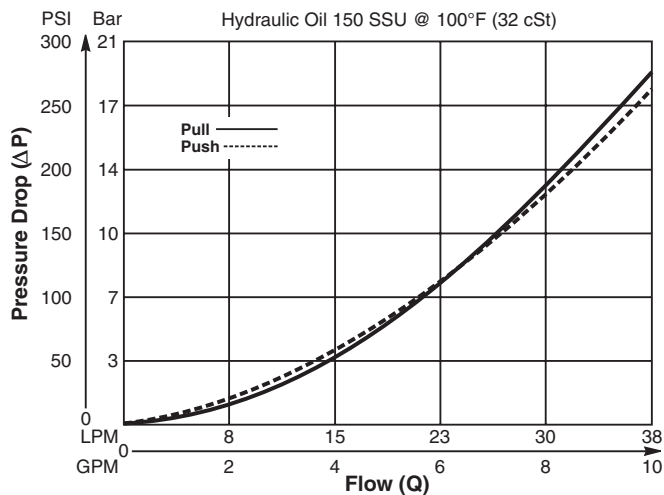
Pressure Compensation Pull Coil
Inlet to Work Port



Pressure Compensation Push Coil
Inlet to Work Port



C1 Spool Port 3 to 4



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