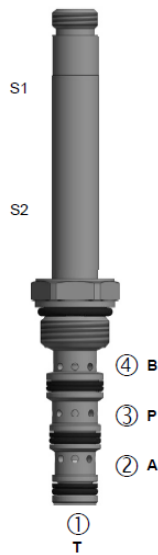
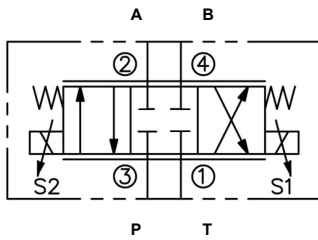


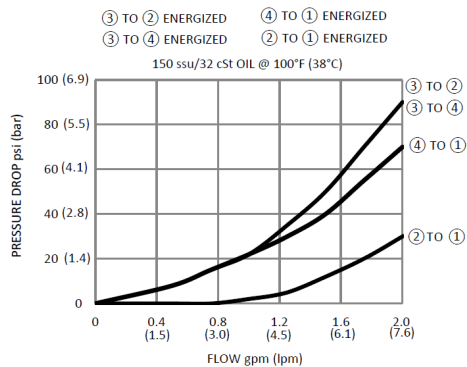
DPV-080-34C-N-L

Four-Way, Three-Position, Closed Center
Proportional Solenoid Valve

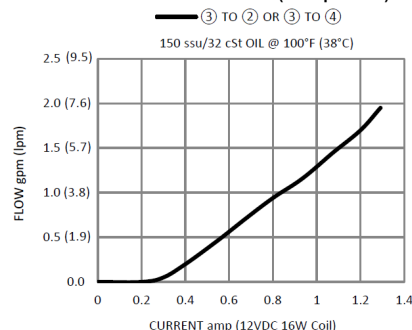
SERIES 8



PRESSURE DROP VS FLOW



FLOW VS CURRENT (3500 psi load)



DESCRIPTION

A cartridge valve designed as a three-position, four-way proportional solenoid valve.

OPERATION

When de-energized, the valve prevents flow at all ports. When the upper coil (S1) is energized, flow is allowed from port-3 to port-4, and from port-2 to port-1. When the lower coil (S2) is energized flow is allowed from port-3 to port-2, and from port-4 to port-1.

Initial meter-in flow begins at a nominal 0.3 amp on a 12 VDC system, full flow of 2 gpm at a nominal 1.3 amp. The valve functions with industry -common controllers which provide PWM current input to 1.2 amps at 12 VDC.

Operation of Manual Override Option: To override, pull the knurled knob to activate the "S1" coil function, or push the knurled knob to activate the "S2" coil function. Release the knurled knob to return to the center position.

FEATURES and BENEFITS

- PWM Duty Cycle, Ramp Time, Current Limit, Dither Frequency and Amplitude, can be provided by consulting the factory.
- Continuous-duty solenoid
- Hardened precision spool and sleeve for long life
- Efficient wet-armature construction
- Manual override option
- Industry common cavity

SPECIFICATIONS

Operating Pressure: 3500 psi (241 bar)

Flow: See PRESSURE DROP VS. FLOW graph
Nominal flow 2 gpm (7.6 lpm)

Internal Leakage: (Per land) 10 in³/min (164 ml/min) max
at 3000 psi (207 bar)

Hysteresis: Less than 7%

Temperature: -30°F to +250°F (-35°C to +120°C)

Coil: 12 VDC only, Series 8: K-Coil see page 1.91.1

Coil Rating: Continuous from 85% to 110% of rated voltage

Current Draw: 12 VDC is 1.3 amps

Minimum Pull-In Voltage: 85% of rated voltage at 3000 psi (207 bar)

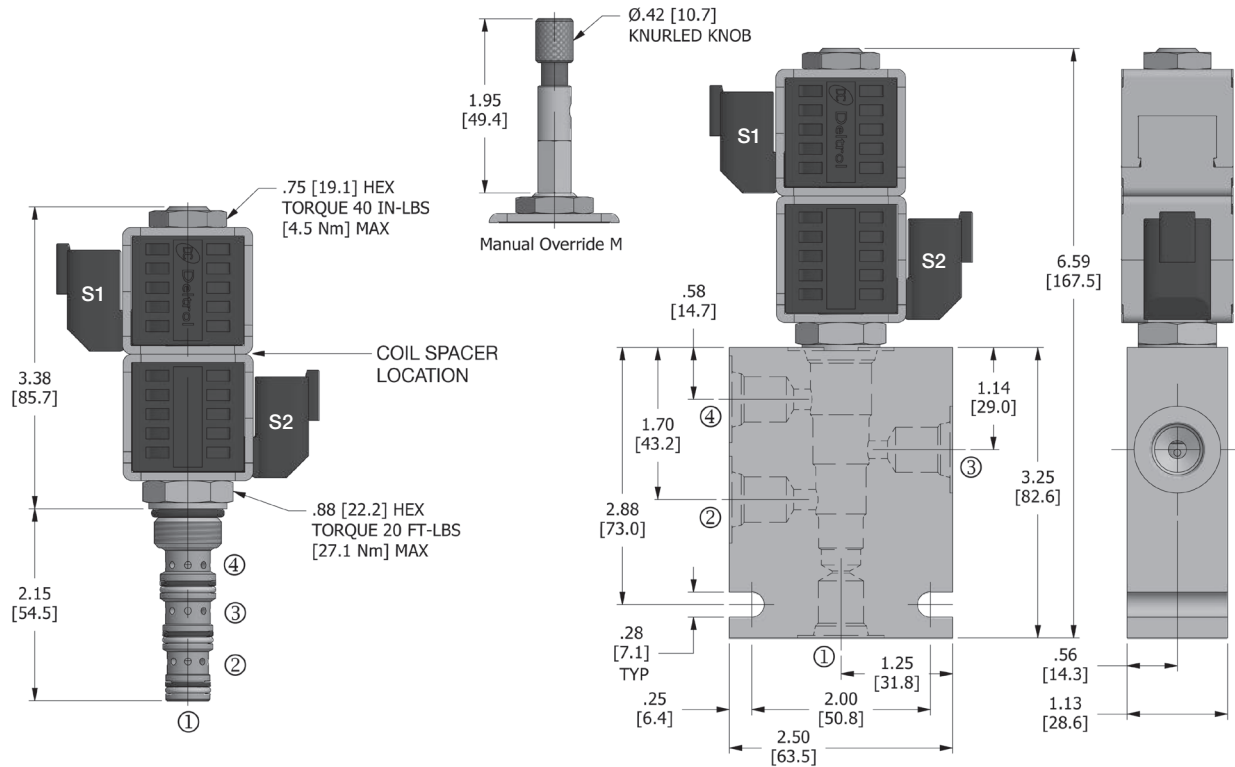
Recommended Filtration: Critical Application ISO 17/15/13

Fluids: Mineral-based fluids.

For other fluid compatibility, consult factory.

Cavity: 080-4, see page 11.08.4

DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DPV	-	080	-	34 C	-	N	-	L	-	*	-	**	-	**	-	**
Proportional Solenoid Valve		Cavity		Flow Path Closed Center		Seals		Low Flow		Manual Override		Voltage		Termination		Porting

Seals	
N	Buna N

Voltage	
omit	Cartridge only w/nut
D1	DC 12 Volt
D2	DC 24 Volt

Termination	
omit	Cartridge only w/nut
UE	Deutsch

Porting		In-Line Body w/o Cartridge
omit	Cartridge only	
2N	1/4 PTF	B-080-4-2N
3N	3/8 PTF	B-080-4-3N
4T	SAE 4	B-080-4-4T
6T	SAE 6	B-080-4-6T

Manual Override	
M	Manual Override

† Other options available—consult factory
Valve, Coil, and In-Line Body supplied individually and need to be assembled. For a completed assembly consult the factory.
All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.