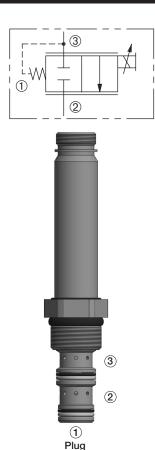
DPV-100-2NC

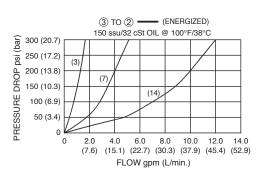
Normally-Closed, Proportional, Flow Control Valve

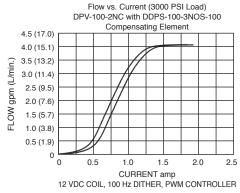


SERIES 10



PRESSURE DROP VS. FLOW





DESCRIPTION

A cartridge valve designed as a normally closed, spool-type, proportional valve for use with a compensating element to provide an electrically variable pressure-compensated flow control.

OPERATION

As electrical current is applied to the coil, the spool will gradually shift from closed to open as current increases to 2 amps maximum. Flow will pass from port ③ to port ② up to 300 psi differential.

Port 1 is plugged.

The valve can also function as a differential control for load sense applications.

The valve functions with industry-common controllers which provide PWM current input to 2 amps @ 12 VDC.

OPERATION OF MANUAL OVERRIDE:

To override, push button in to activate.

To return to normal function, release button.

FEATURES and BENEFITS

- Valve controllers along with portable controller programming devices to vary PWM Duty Cycle, Ramp Time, Current Limit, Dither Frequency and Amplitude, can be provided by consulting the factory.
- Hardened precision spool and sleeve for long life.
- · Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations.
- Industry common cavity.

SPECIFICATIONS

Coil Specifications:

12 Volt System

Resistance 4.0 ohms @ 20°C
Threshold Current 300 ± 70mA
Max. Control Current 1500 ± 200mA

24 Volt System

Resistance 16.0 ohms @ 20°C
Threshold Current 150 ± 35mA
Max. Control Current 750 ± 100mA

Operating Pressure: 3000 psi (207 bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Nominal flow 14 gpm (53.0 lpm)

Internal Leakage: (per land) 10 in³/min (164 cc/min) max. at 3000 psi (207 bar)

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

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

Recommended Filtration: ISO 16/12

Fluids: Mineral-based fluids.

Cavity/Cavity Tool: 100-3, see page 11.10.3 In-Line Body Material: Anodized 6061T6 aluminum alloy rated at 3000 psi (207 bar)

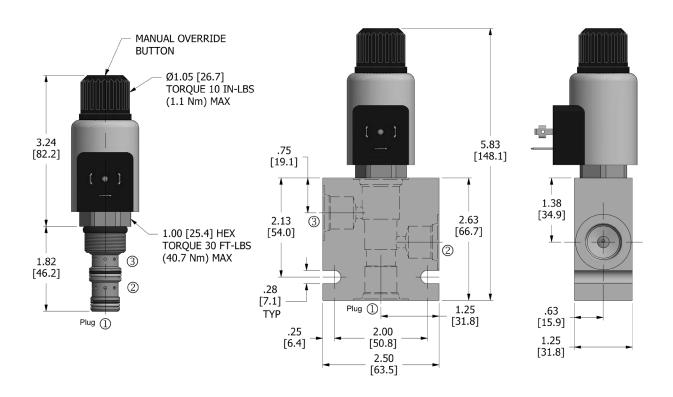


DPV-100-2NC

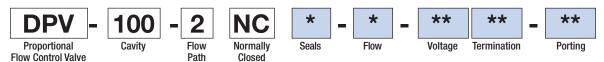
Normally-Closed, Proportional, Flow Control Valve

SERIES 10

DIMENSIONS Inches [Millimeters]



HOW TO ORDER



Seals		Seal Kit
N	Buna N	

Flow		
3	3 gpm (11.4 lpm)	
7	7 gpm (26.5 lpm)	
14	14 gpm (53.0 lpm)	

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

Termination		
omit	Cartridge only w/nut	
Н	DIN 43650	
10224-77	coil retainer nut	

Porting [†]		In-Line Body
omit	Cartridge only	w/o Cartridge
6T	SAE 6	B-100-3-6T
8T	SAE 8	B-100-3-8T

[†] Other options available – consult factory