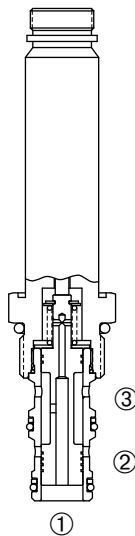
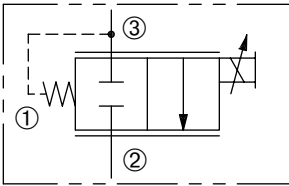


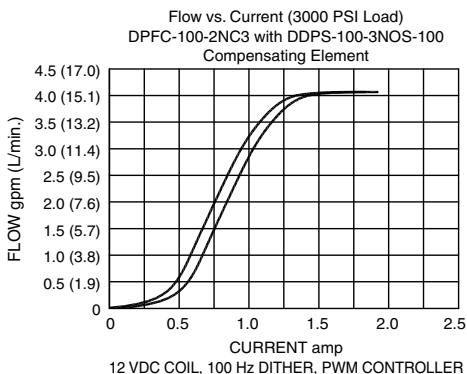
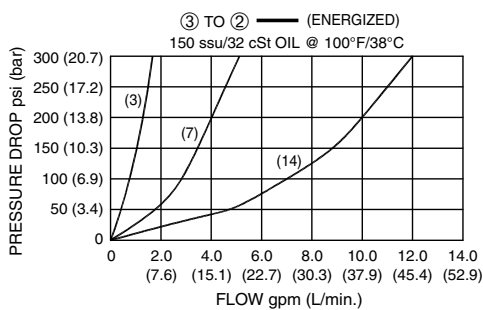
DPV-100-2NC

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.
- Compact size.

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 PERFORMANCE DROP VS. FLOW graph.

Internal Leakage: (per land) 10 in³/min. (164 cc/min) at 3000 PSI (207 Bar)

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

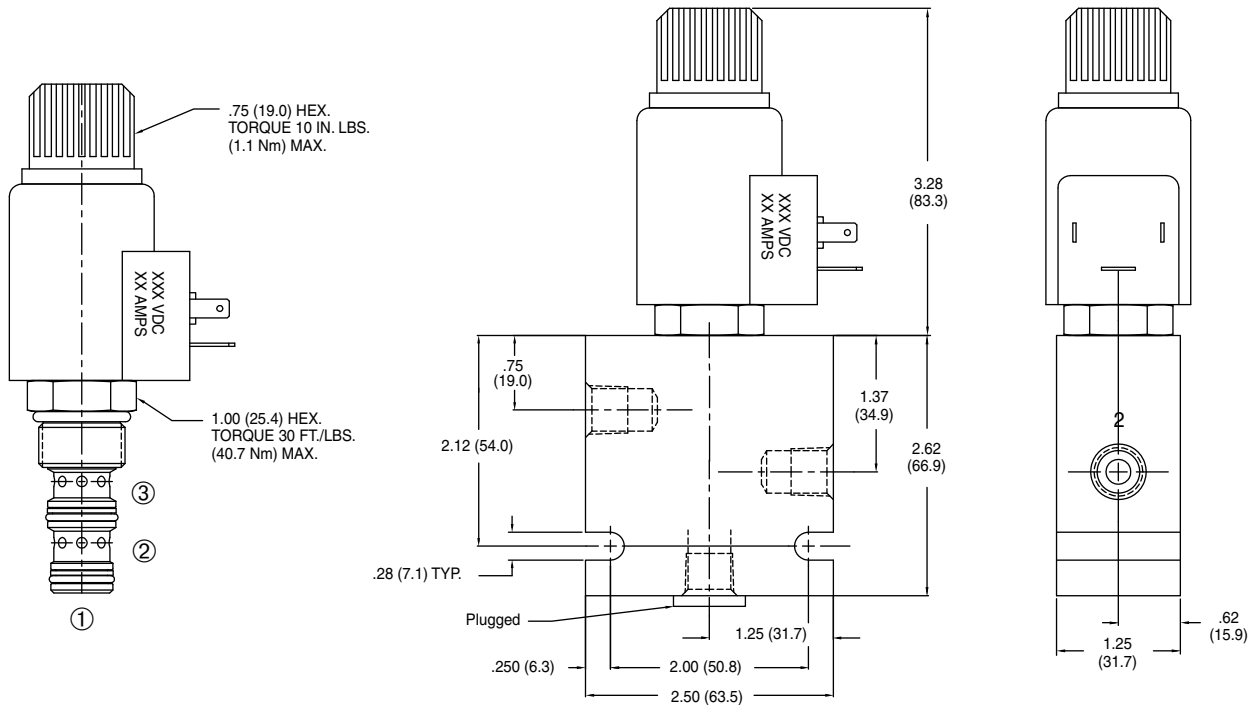
Coil Rating: [Continuous from 85% to 110% of rated voltage.](#)

Recommended Filtration: ISO 16/12

Fluids: Mineral-based fluids.

Cavity/Cavity Tool: 100-3, [see page 11.10.3](#)

INSTALLATION DIMENSIONS



() Parentheses = Millimeters

HOW TO ORDER

