NEW

DELTROL

fluid products

DIVISION OF DELTROL CORP

DPFC-100-2NC

Proportional Flow Control Cartridge

DPFR-100-2NC

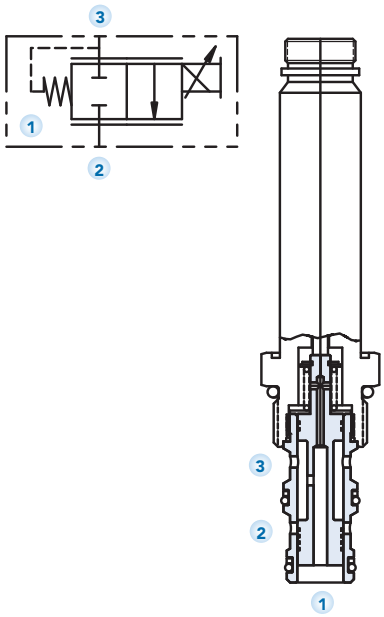
Proportional Flow Regulator Valve

DPFC-100-2NC

Proportional Flow Control Cartridge, Normally Closed

SERIES 10

USASI/ISO



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

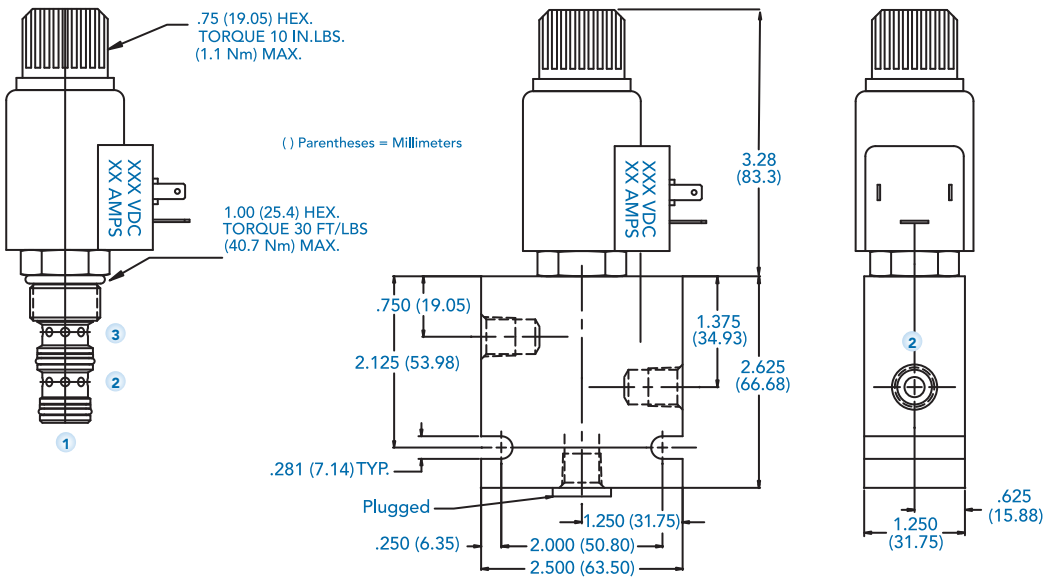
As electrical current is applied to the coil the spool will gradually shift from closed to open as current increases to 2 amps maximum. Flow will pass from Port 3 to Port 2 up to 300 psi differential. Port 1 is plugged.

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 operate, push button in to activate. To return to normal function, release button.

INSTALLATION DIMENSIONS



HOW TO ORDER

DPFC - 100 - 2 NC - ** - * - * * * - **

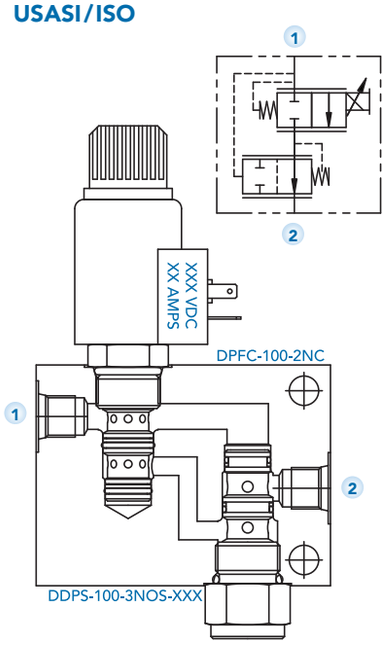
- DPFC — Solenoid Valve
- 100 — Cavity/Seal
- 2 — Flow Path
- NC — Normally Closed
- **** — FLOW RANGE MAX
  - 300 = 3 GPM
  - 700 = 7 GPM
  - 1400 = 14 GPM
- * — SEAL COMPOUND
  - N = Buna N
  - V = Viton
- * — D = DC
- * — VOLTAGE
  - 1 = 12 Volt
  - 2 = 24 Volt
- * — COIL CONNECTION
  - H = Hirschmann
  - B = Double Spade
- ** — BODY PORTING
  - 6T = SAE 6
  - 8T = SAE 8
  - Omit for Cartridge Only

DPFR-100-2NC

Proportional Flow Regulator Valve, Normally Closed

SERIES 10

USASI/ISO



DESCRIPTION

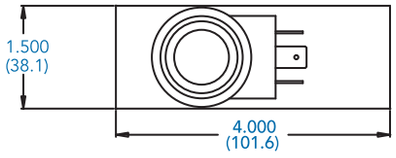
A normally closed, spool-type, proportional flow regulator utilizing a DPFC-100-2NC cartridge flow control along with a DDPS-100 compensating element to provide an electrically variable pressure compensated flow control.

OPERATION

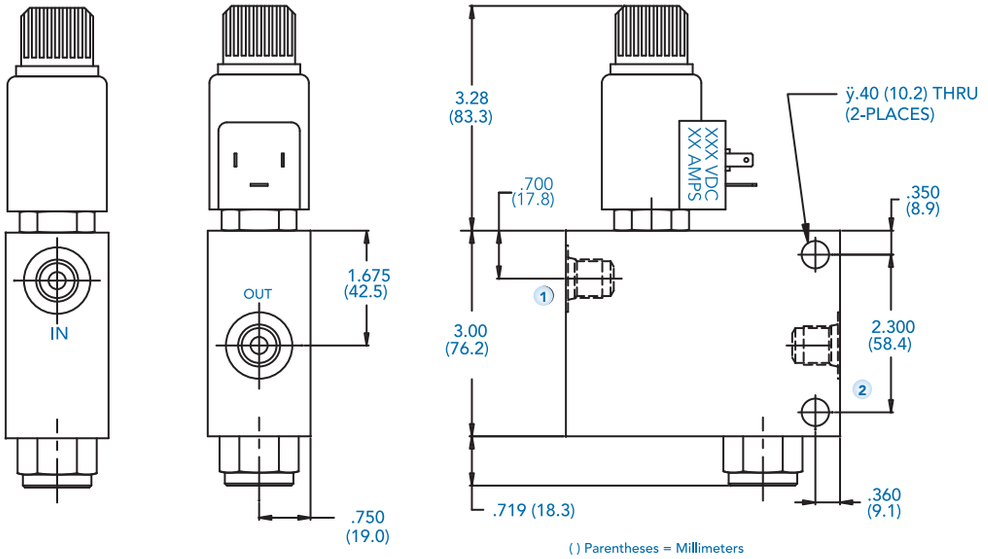
The DPFR-100 will maintain constant flow within specified accuracies from Port 1 to Port 2 regardless of load pressure. Regulated flow will increase with an increase in supply current to the solenoid valve.

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

Operation of Manual Override:
To operate, push button in to activate. To return to normal function, release button.



INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

HOW TO ORDER

DPFR - 100 - 2 NC - ** - * - *** - * * * - **

- DPFR — Proportional Flow Regulator
- 100 — Cavity/Seal
- 2 — Flow Path
- NC — Normally Closed
- **** — FLOW RANGE MAX
  - 300 = 3 GPM
  - 700 = 7 GPM
  - 1400 = 14 GPM
- * — SEAL COMPOUND
  - N = Buna N
  - V = Viton
- *** — COMPENSATOR SPRING
  - 75 psi (5.2 Bar)
  - 100 psi (6.9 Bar)
  - 150 psi (10.3 Bar)
- * — D = DC
- * — VOLTAGE
  - 1 = 12 Volt
  - 2 = 24 Volt
- * — COIL CONNECTION
  - H = Hirschmann
  - B = Double Spade
- ** — BODY PORTING
  - 6T = SAE 6
  - 8T = SAE 8
  - Omit for Cartridge Only

FEATURES AND BENEFITS

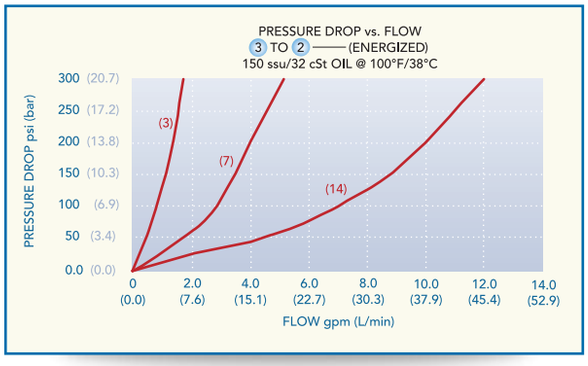
- Valve controllers along with portable controller programming devices to vary PWM Duty Cycle, Ramp Time, Current Limit, Dither frequency and amplitude, can be provided by consulting the factory.
- Hardened precision spool and sleeve for long life.
- Efficient wet-armature construction.
- Cartridges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

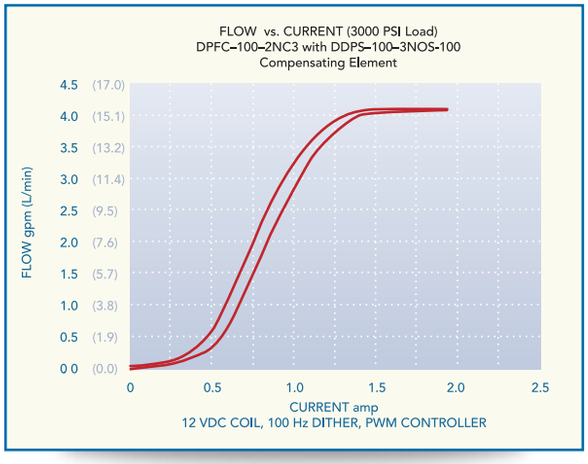
SPECIFICATIONS

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 ± 10000mA

Operating Pressure:	3000 psi (207 Bar)
Flow:	See Performance Characteristic Graph
Internal Leakage:	(per land) 10 in^3/min (164 cc/min) max 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





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3001 Grant Avenue
Bellwood, IL 60104
(708) 547-0500

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