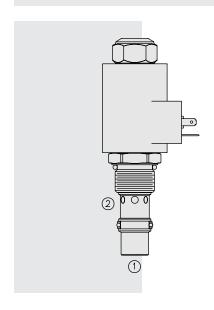
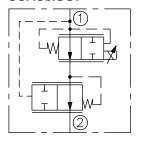
PV72-21 Proportional Flow Control Cartridge,



SYMBOLS

USASI/ISO:



DESCRIPTION

A solenoid operated, electrically-variable, two-port, pressure-compensated, spooltype, normally open when de-energized, proportional flow control valve.

OPERATION

The PV72-21 will regulate flow out of port ② regardless of system working pressure. With an increasing current applied to the solenoid, the PV72-21 will decrease output flow

Operation of Manual Override:

- To Engage: Turn clockwise approximately 1 turn to reach start point. Continue another approximately 5 turns to full shift.
- To Disengage: Turn counterclockwise approximately 6 turns until positive stop is found.

FEATURES

- Excellent linearity and hysteresis characteristics.
- Hardened spool and cage for long life.
- Efficient wet armature construction.
- Optional coil voltages and terminations.
- Cartridges voltage interchangeable.
- Unitized, molded coil design.
- Coil waterproofing standard.
- Manual override option.

RATINGS

Operating Pressure: Port ①: 240 bar (3500 psi); Port ②: 207 bar (3000 psi)

Regulated Flow Rate: 56 lpm (15 gpm)

Internal Leakage: .38 lpm (0.1 gpm) fully closed at 207 bar (3000 psi)

Electrical: 2 standard voltage ratings

Coil Voltage	Threshold Current	Max. Control Current
12 VDC	150 ± 100 mA	1350 ± 150 mA
24 VDC	75 ± 50 mA	675 ± 75 mA

Filtration: See page 9.010.1

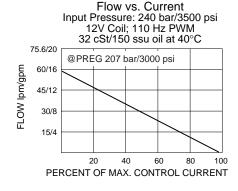
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

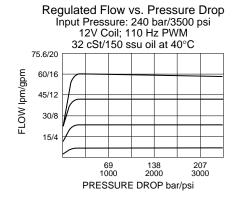
Installation: No restrictions; See page 9.020.1. **Cavity:** VC12-2, Cavity Variation "B"; See page 9.112.1

Cavity Tool: CT12-2X-XX; See page 8.600.1

Seal Kit: SK12-2X-M; See page 8.650.1 for seal kit options and appropriate seals based on application temperature range.

PERFORMANCE





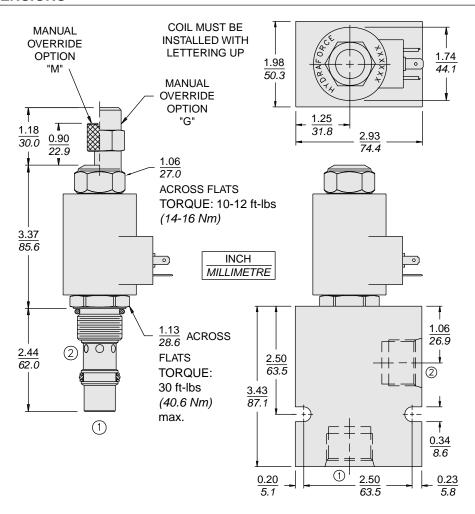
Recommended Electronic Controllers: See page 2.001.1 or our Electronics catalog.



Normally Open

PV72-21

DIMENSIONS



MATERIALS

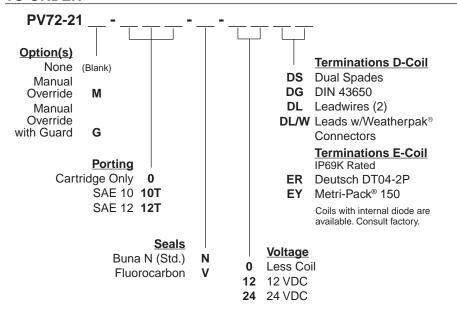
Cartridge: Weight: 0.32 kg. (0.7 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces. Buna
N O-rings and polyester elastomer
back-ups standard.

Standard Ported Body: Weight: 0.59 kg. (1.3 lbs.); Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1.

70-Size "D" Coil: Weight: 0.32 kg. (0.7 lbs.) Unitized thermoplastic encapsulated, Class H high temperature magnet-wire. See page 3.200.7.

70-Size "E" Coil: Weight: 0.41 kg. (0.9 lbs.) Fully encapsulated with rugged external metal shell. IP69K rated. See page 3.400.13.

TO ORDER



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