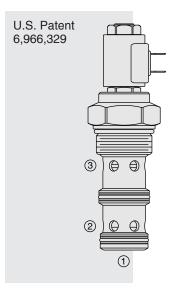
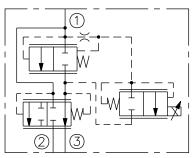
PV42-M30 Proportional Flow Control Cartridge,



SYMBOLS

USASI/ISO:



DESCRIPTION

A solenoid-operated, two-stage, three-port, pressure-compensated, spool-type, normally closed when de-energized, proportional flow control valve. It can be used as a priority-type flow regulator with pressure-compensated, regulated and bypass flow.

OPERATION

The **PV42-M30** will regulate flow out of port 3 regardless of system working pressure at 3 or at bypass port 2. Two priority flow ranges are provided for better resolution: Range A for priority flow up to 170 lpm/45 gpm, and Range B for priority flow up to 132 lpm/35 gpm. For either range, the input flow at 1 can be up to 225 lpm/60 gpm.

Note: When used as a bypass flow control in applications where the priority flow port will be blocked by external valving, bypass pressure drop will increase unless a small amount of leakage is provided for the priority port. Consult factory.

Operation of Manual Override: To Engage: Turn clockwise approximately 3 turns to reach start point. Continue another approximately 2 more turns to full shift. To Disengage: Turn counterclockwise approximately 5 turns to positive stop.

FEATURES

- Excellent linearity and hysteresis characteristics.
- Hardened spool and cage for long life.
- Optional coil voltages and terminations.
- Efficient wet armature construction.

RATINGS

Operating Pressure: Inlet: 240 bar (3500 psi); Ports 2 and 3: 207 bar (3000 psi) Regulated Flow Rate: Range A: 190 lpm (50 gpm) maximum Range B: 132 lpm (35 gpm) maximum

Maximum Input Flow: 225 lpm (60 gpm)

Maximum Internal Leakage: 1.52 lpm (0.40 gpm) at zero current Electrical: 2 standard voltage ratings

Coil Voltage	Threshold Current	Max. Control Current
12 VDC	400 ± 100 mA	1400 ± 150 mA
24 VDC	200 ± 50 mA	700 ± 75 mA

Filtration: See page 9.010.1

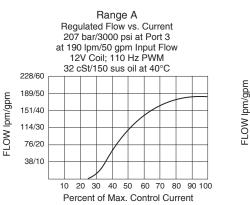
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of

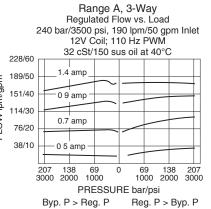
7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1 **Installation:** No restrictions; See page 9.020.1.

Cavity: VC42-M3; See page 9.142.1; Cavity Tool: CT42-M3X-XX; See page 8.600.1 Seal Kit: SK42-3X-MM; See page 8.650.1 for seal kit options

and appropriate seals based on application temperature range.

PERFORMANCE



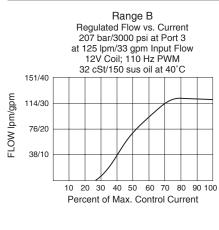


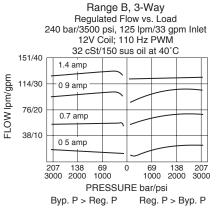
Recommended Electronic Controllers: See page 2.001.1 or our Electronics catalog.

PV42-M30

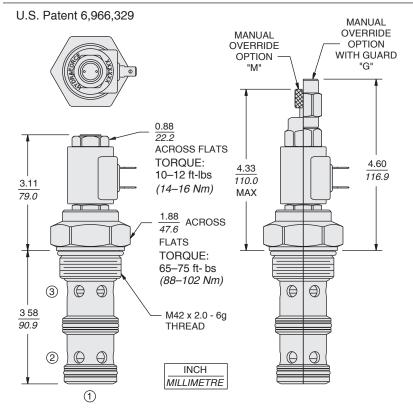
Normally Closed

PERFORMANCE (continued)





DIMENSIONS



MATERIALS

Cartridge: Weight: 0.89 kg. (1.97 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Ported Body: Consult factory.

EHPR Series Coil: Weight: 0.32 kg. (0.7 lbs.) Unitized thermoplastic encapsulated, Class H high temperature magnet-wire. See page 3.200.8.

TO ORDER

