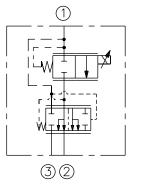
PFR70-33x-J Proportional Priority Flow Regulator,

SYMBOLS

USASI/ISO:

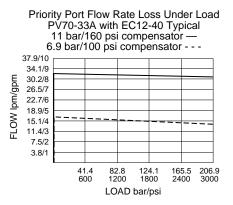


Attention Manifold Designers:

To obtain these high flow capabilities using proportional flow controls and compensators, optimized cavity drillings are required. Please consult factory.

PERFORMANCE CURVES

24 Volt coil used; 130 Hz dither; PWM controller



DESCRIPTION

A pressure-compensated electrically-variable three-port flow regulator that is a priority (bypass) type control. This combination valve uses a PV70-33x proportional cartridge and an EC12-40 compensator.

OPERATION

The **PFR70-33x-J** series will bypass all flow when de-energized at the pressure compensator spring value. When energized, this proportional valve/compensator package will regulate flow out of port ⁽²⁾, regardless of system working pressure, with an increasing current applied to the solenoid.

FEATURES

- Excellent linearity and hysteresis.
- Optional control orifice sizes.
- Hardened spool and cage for long life.Optional coil voltages and terminations.
- Coil waterproofing standard.

Unitized, molded coil design.

Cartridges voltage interchangeable.

Screw-in manual override option.

For 12 volt coils, double the current (amp) values shown.

• Efficient wet armature construction.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Pressure Rise: Pressure at ① begins to rise higher than the compensating pressure differential when bypass flow exceeds 41.6 lpm (11 gpm).

Internal Leakage: 410 cc/min. (25 cu. in./min.) fully closed at 207 bar (3000 psi) out port ⁽²⁾.

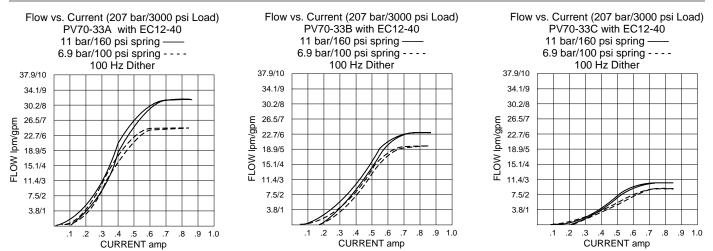
Electrical: 2 standard voltage ratings

	Threshold Current (mA)		Max. Control Current (mA)	
Coil Voltage	A & B Range	C Range	A & B Range	C Range
12 VDC	300 ± 70	360 ± 70	1500 ± 200	1400 ± 200
24 VDC	150 ± 35	180 ± 35	750 ± 100	700 ± 100

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.
- 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; Filtration: See page 9.010.1

Priority Port Flow Delivered Out Port 2:

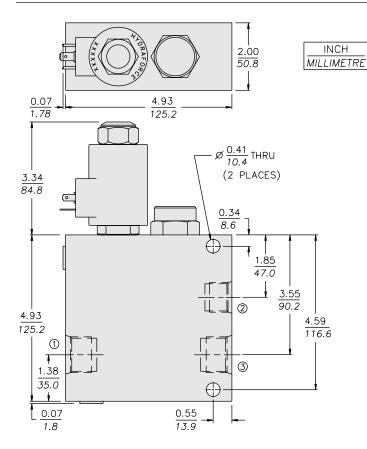


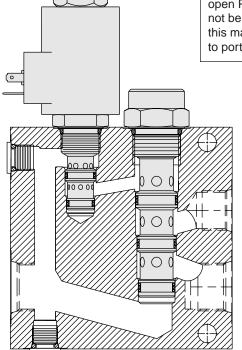


3-Port, Pressure Compensated

PFR70-33x-J

DIMENSIONS





NOTE: The normally open PV70-35 may not be substituted in this manifold due to port logic factors.

