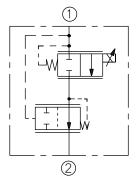
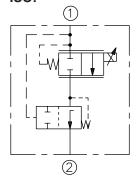
#### PFR72-33x-L Proportional Flow Regulator, N.C.,

#### SYMBOLS

#### **USASI:**



#### ISO:



#### **Attention Manifold Designers:**

# **DESCRIPTION**

A pressure-compensated electrically-variable two-port flow regulator that is normally closed when de-energized. This combination valve uses a PV72-33x proportional cartridge and an EC12-30 compensator.

## **OPERATION**

This proportional valve/compensator package will regulate flow out of port @ regardless of system working pressure. With an increasing current applied to the solenoid, the PFR72-33x-L will increase output flow.

#### **FEATURES**

- Excellent linearity and hysteresis.
- · Optional control orifice sizes.
- Hardened spool and cage for long life.
- · Optional coil voltages and terminations.
- Efficient wet armature construction.
- Cartridges voltage interchangeable.
- · Unitized, molded coil design.
- Coil waterproofing standard.
- Screw-in manual override option.

#### **RATINGS**

Operating Pressure: 207 bar (3000 psi)

Internal Leakage: 492 cc/min. (30 cu. in./min.) fully closed at 207 bar (3000 psi) out

Electrical: 2 standard voltage ratings

Coil Voltage	Threshold Current (mA)	Max. Control Current (mA)
12 VDC	300 ± 200 mA	1500 ± 100 mA
24 VDC	150 ± 35 mA	750 ± 100 mA

#### **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.

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

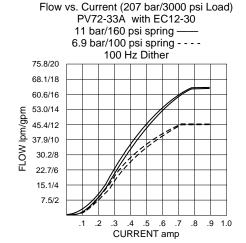
Installation: No restrictions; See page 9.020.1

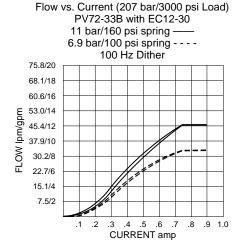
## To obtain these high flow capabilities

using proportional flow controls and compensators, optimized cavity drillings are required. Please consult factory.

# PERFORMANCE CURVES Regulated Flow Delivered Out Port 2:

24 Volt coil used; 100 Hz dither; PWM controller. For 12 volt coils, double the current (amp) values shown.



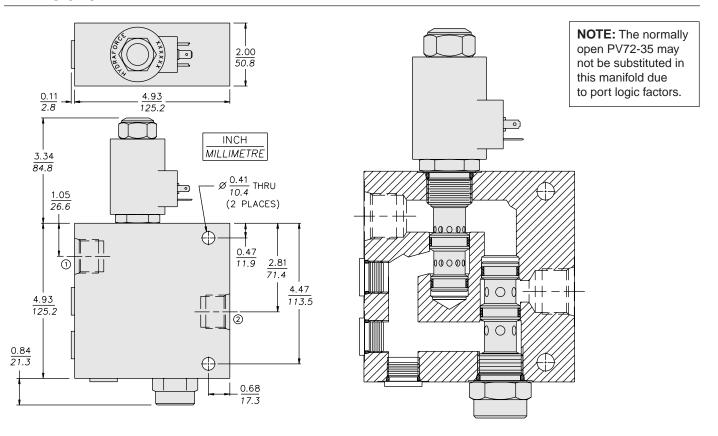




# 2-Port, Pressure Compensated

# PFR72-33x-L

#### **DIMENSIONS**



# **MATERIALS**

Cartridge: Steel with hardened work surfaces. Zinc-plated exposed surfaces.
Buna N O-rings and back-ups standard.

# **Standard Ported Body:**

Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. Consult factory.

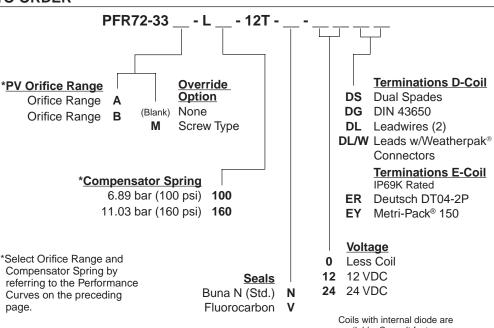
Coil: D-Coil: See page 3.200.1 E-Coil: See page 3.400.1

Package Weight: 3.18 kg.

(7 lbs.)

Seal Kit: SK12-3x-MM (PV) SK12-3x-TB (EC)

## **TO ORDER**



available. Consult factory.