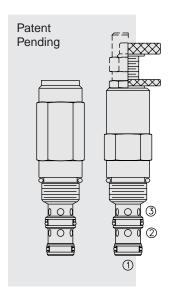
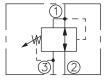
PR50-36 Pressure Reducing/Relieving, Pilot-Operated

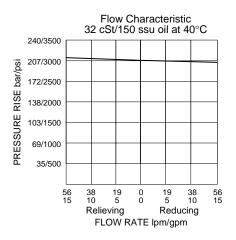


SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A screw-in, cartridge-style, pilot-operated, spool-type, hydraulic pressure reducing/relieving valve with internal pilot and internal spring chamber drain, designed to act as a pressure-regulating device for secondary circuits.

OPERATION

In its steady state, the **PR50-36** allows flow to pass bidirectionally from ② to ①, with the spring chamber constantly drained at ③.

On attainment of a pre-determined pressure at 1, the cartridge shifts to restrict input flow at 2, thereby regulating pressure at 1. In this mode, the valve will also relieve 1 to 3.

Deadband (from reducing to relieving) pressure rise over reduced pressure setting: Non-flow condition: approximately 0.55 bar (8 psi); with flow: approximately 2.1 bar (30 psi).

FEATURES

- Adjustments cannot be backed out of the valve.
- · Adjustments prohibit springs from going solid.
- Optional spring ranges to 345 bar (5000 psi).
- Hardened spool and cage for long life.
- Industry common cavity.

RATINGS

Operating Pressure: 345 bar (5000 psi)

Flow: See Performance Chart

Pilot Orifice: Pilot-operated through 0.51 mm (0.020 inch) hole

Standard Spring Ranges (Reducing Function): 27.6 to 103.4 bar (400 to 1500 psi); 103.4 to 206.9 bar (1500 to 3000 psi); 206.9 to 344.8 bar (3000 to 5000 psi)

Temperature: -40 to 120°C with standard Buna seals

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: VC10-3; See page 9.110.1

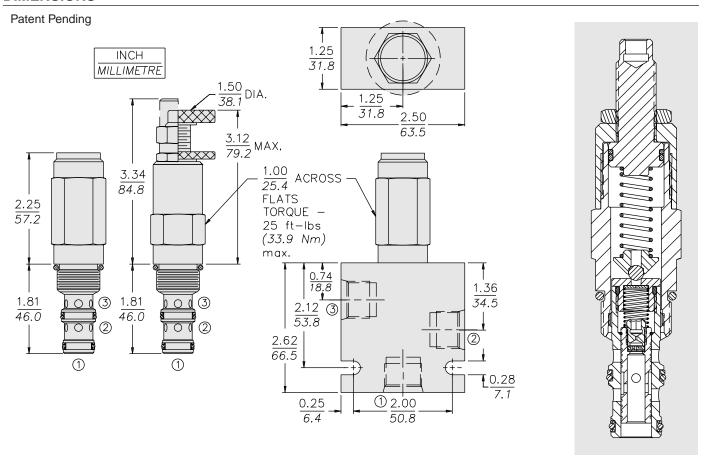
Cavity Tool: CT10-3XX; See page 8.600.1 Seal Kit: SK10-3P-BM; See page 8.650.1



PR50-36

6.442.2

DIMENSIONS

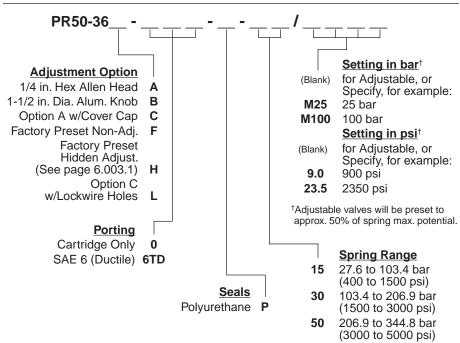


MATERIALS

Cartridge: Weight: 0.27 kg. (0.60 lbs.)
Steel with hardened work surfaces.
Zinc-plated exposed surfaces.
Polyurethane O-rings and
Fluorocarbon back-ups standard.
Anodized aluminum knobs
and caps.

Ported Body: Weight: 0.64 kg. (1.41 lbs.) Ductile Iron (code "D") standard, consult factory for weight, dimensions may differ. Rated to 345 bar (5000 psi). See page 8.010.1

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