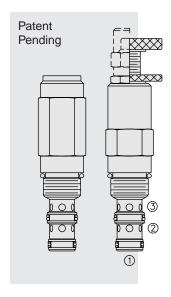
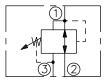
PR10-36 Pressure Reducing/Relieving, Pilot-Operated

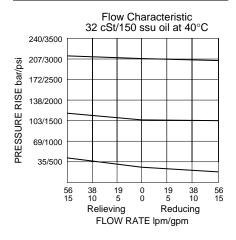


SYMBOLS

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 **PR10-36** 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 207 bar (3000 psi).
- Hardened spool and cage for long life.
- Industry common cavity.

RATINGS

Operating Pressure: 210 bar (3000 psi) Proof Pressure: 390 bar (5700 psi) Flow: See Performance Chart

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

Standard Spring Ranges (Reducing Function):

6.9 to 27.6 bar (100 to 400 psi); 10.3 to 103 bar (150 to 1500 psi); 27.6 to 207 bar (400 to 3000 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

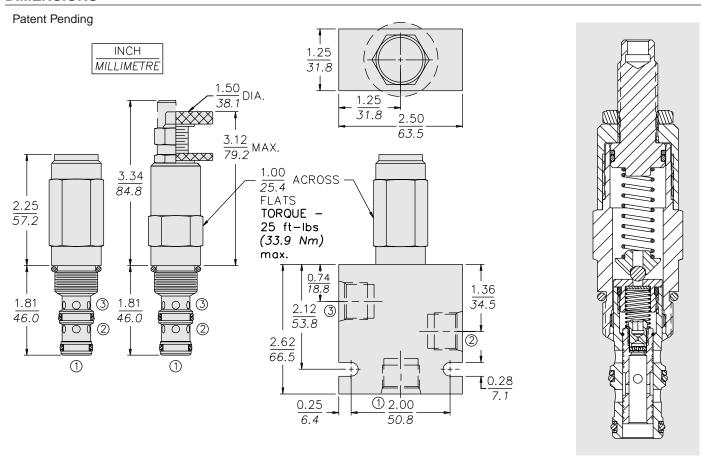
Installation: No restrictions; See page 9.020.1

Cavity: VC10-3; See page 9.110.1 Cavity Tool: CT10-3XX; See page 8.600.1 Seal Kit: SK10-3X-BM; See page 8.650.1



PR10-36

DIMENSIONS

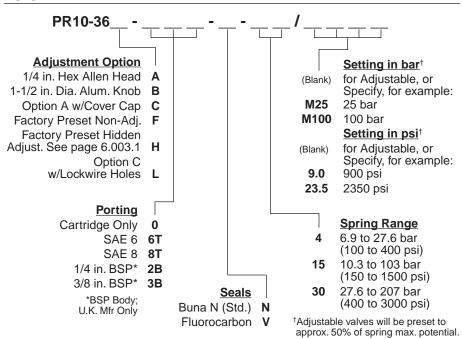


MATERIALS

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

Standard Ported Body: Weight: 0.36 kg. (0.80 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

TO ORDER



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