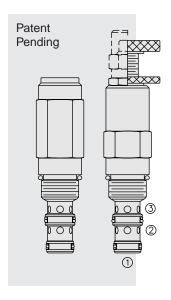
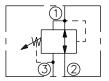
Pressure Reducing/Relieving, Pilot-Operated PR10-36

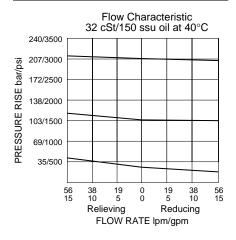


SYMBOLS

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: 21 F bar (3Í 00 psi) Proof Pressure: Í FÏ bar (Ï 5€0 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

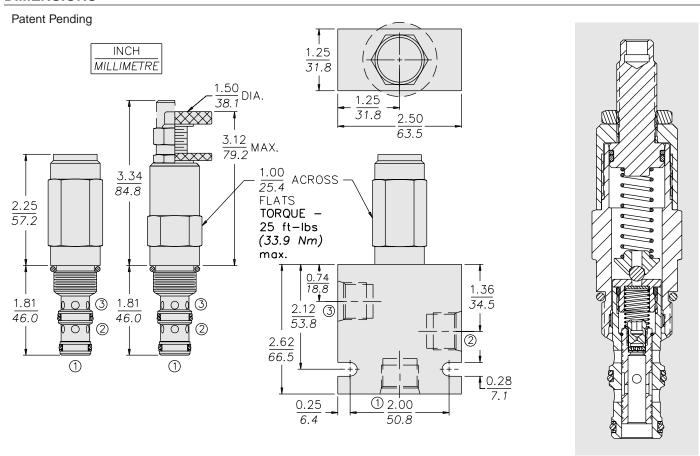
Installation: No restrictions; See page 9.020.1

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

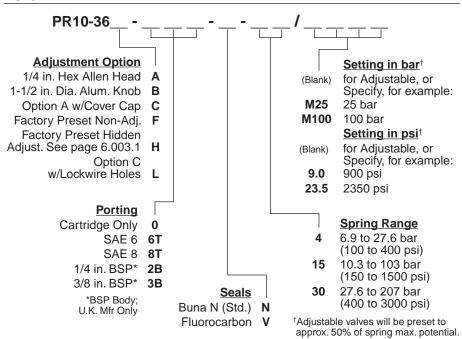


MATERIALS

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

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