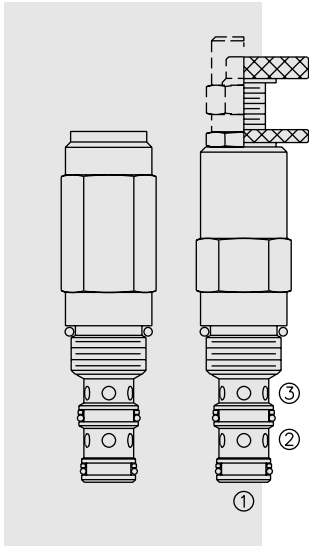


PS10-33 Sequence, External Pilot, Internal Drain



DESCRIPTION

A screw-in, cartridge-style, direct-acting, spool-type, hydraulic sequence valve with external pilot and internal spring chamber drain.

OPERATION

In its steady state, the **PS10-33** blocks flow from ③ to ②.

On attainment of a pre-determined pressure at ①, the cartridge shifts to open ③ to ②.

Since the spring chamber is vented at ②, back pressure at ② will directly (1:1) affect the valve's setting.

FEATURES

- Adjustments cannot be backed out of the valve.
- Adjustments prohibit springs from going solid.
- Spring range to 240 bar (3500 psi).
- Hardened spool and cage for long life.
- Industry common cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage: 82 cc/minute (5 cu. in./minute) max. to 90% of nominal setting

Standard Spring Range: 35 to 240 bar (500 to 3500 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 ssu)

Installation: No restrictions; See page 9.020.1

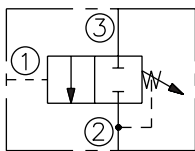
Cavity: VC10-3; See page 9.110.1

Cavity Tool: CT10-3XX; See page 8.600.1

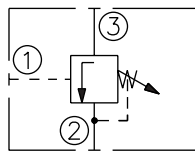
Seal Kit: SK10-3X-TB; See page 8.650.1

SYMBOLS

USASI:

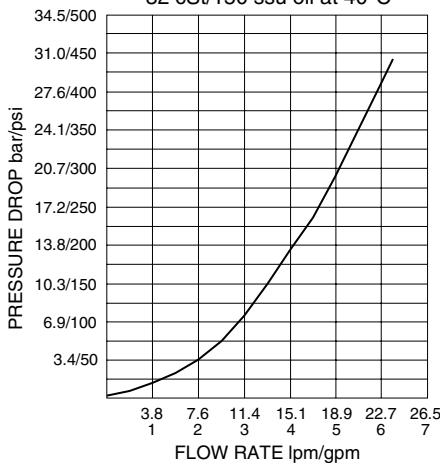


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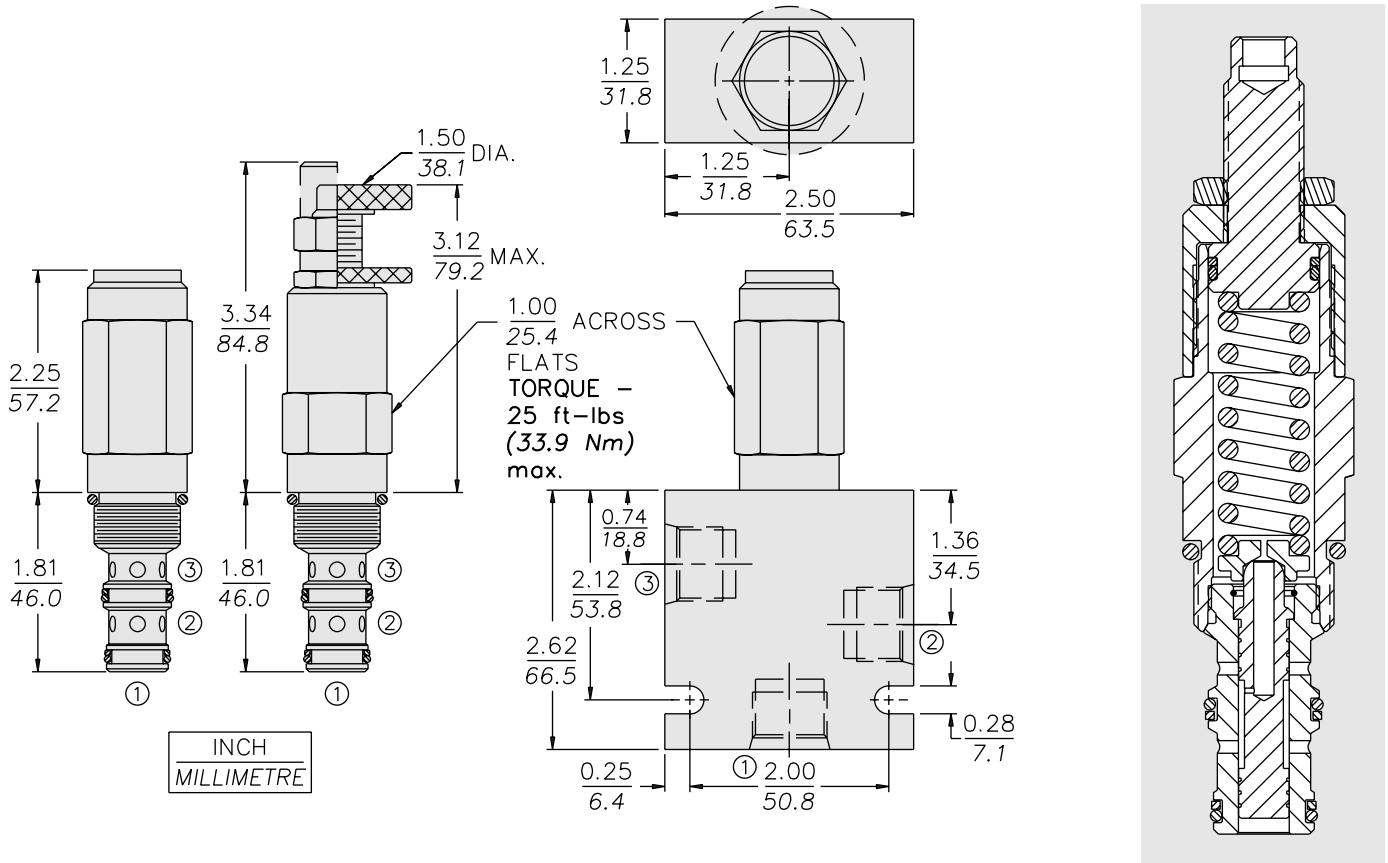


PERFORMANCE (Cartridge Only)

Pressure vs. Flow
 ③ to ②; 40–400 psi Spring
 32 cSt/150 ssu oil at 40°C



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.

Standard Ported Body: Weight: 0.36 kg. (0.80 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); See page 8.010.1. Ductile iron and steel bodies available; dimensions may differ; consult factory.

TO ORDER

PS10-33 - - - /

Adjustment Option

- 1/4 in. Hex Allen Head **A**
- 1-1/2 in. Dia. Alum. Knob **B**
- Option A w/Cover Cap **C**
- Factory Preset Non-Adj. **F**
- Factory Preset Hidden Adj. **H**
- (See page 6.003.1) Option C w/ Lockwire Holes **L**

Porting

- Cartridge Only **0**
- SAE 6 **6T**
- SAE 8 **8T**
- 1/4 in. BSP* **2B**
- 3/8 in. BSP* **3B**

Seals

- Buna N (Std.) **N**
- Fluorocarbon **V**

Setting in bar[†]

(Blank) for Adjustable, or Specify, for example:

- M50** 50 bar
- M100** 100 bar

Setting in psi[†]

(Blank) for Adjustable, or Specify, for example:

- 9.0** 900 psi
- 23.5** 2350 psi

Spring Range

- 35** 35 to 240 bar (500 to 3500 psi)

[†] Adjustable valves will be preset to approx. 50% of spring max. potential.

*BSP Body; U.K. Mfr. Only