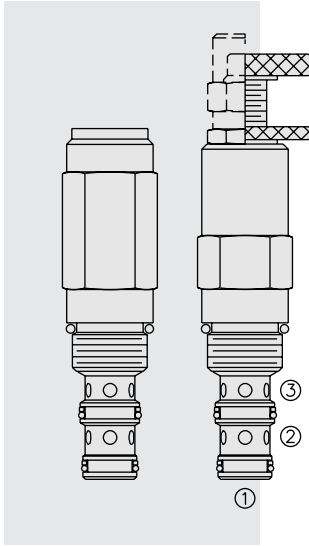# PS10-30 Sequence, Internal Pilot & Drain

DESCRIPTION

A screw-in, cartridge-style, direct-acting, spool-type, hydraulic sequence valve with internal pilot and spring chamber drain, designed to direct flow to a secondary circuit once a pre-determined pressure level is attained in the primary circuit.

OPERATION

In its steady state, the **PS10-30** blocks flow at ①, while allowing flow to pass from ② to ③.

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

FEATURES

• Adjustments cannot be backed out of the valve.
• Adjustments prohibit springs from going solid.
• Optional spring ranges to 144.8 bar (2100 psi).
• Hardened spool and cage for long life.
• Industry common cavity.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Flow: See Performance Chart

Internal Leakage ① to ②: 82 cc/minute (5 cu. in./minute) max. to 85% of nominal setting

Standard Spring Ranges:
  2.8 to 27.6 bar (40 to 400 psi);
  14.5 to 144.8 bar (210 to 2100 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

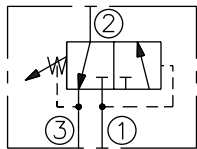**Installation:** No restrictions; See page 9.020.1

Cavity: VC10-3; See page 9.110.1

Cavity Tool: CT10-3XX; See page 8.600.1

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

SYMBOLS

USASI/ISO:

PERFORMANCE (Cartridge Only)

Pressure Drop vs. Flow
② to ③
32 cSt/150 ssu oil at 40°C

Pressure vs. Flow
① to ②; 210 to 2100 psi Spring
—— Maximum Setting
- - - - Minimum Setting
32 cSt/150 ssu oil at 40°C

Pressure vs. Flow
① to ②; 40–400 psi Spring
—— Maximum Setting
- - - - Minimum Setting
32 cSt/150 ssu oil at 40°C
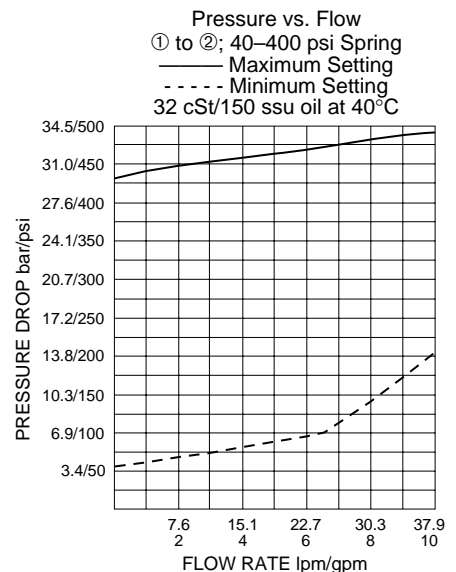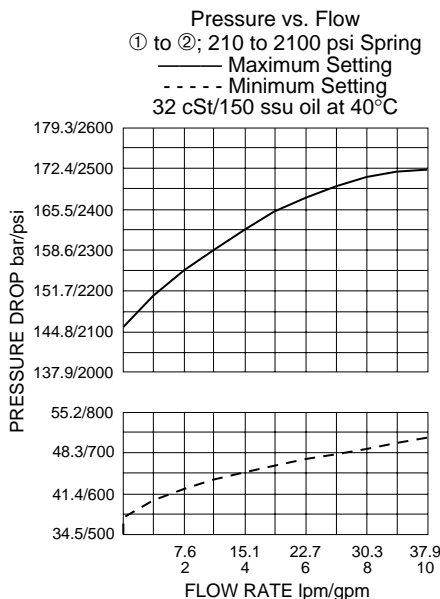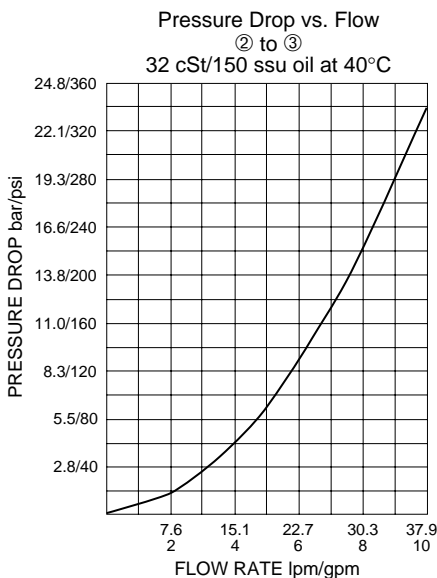
DIMENSIONS
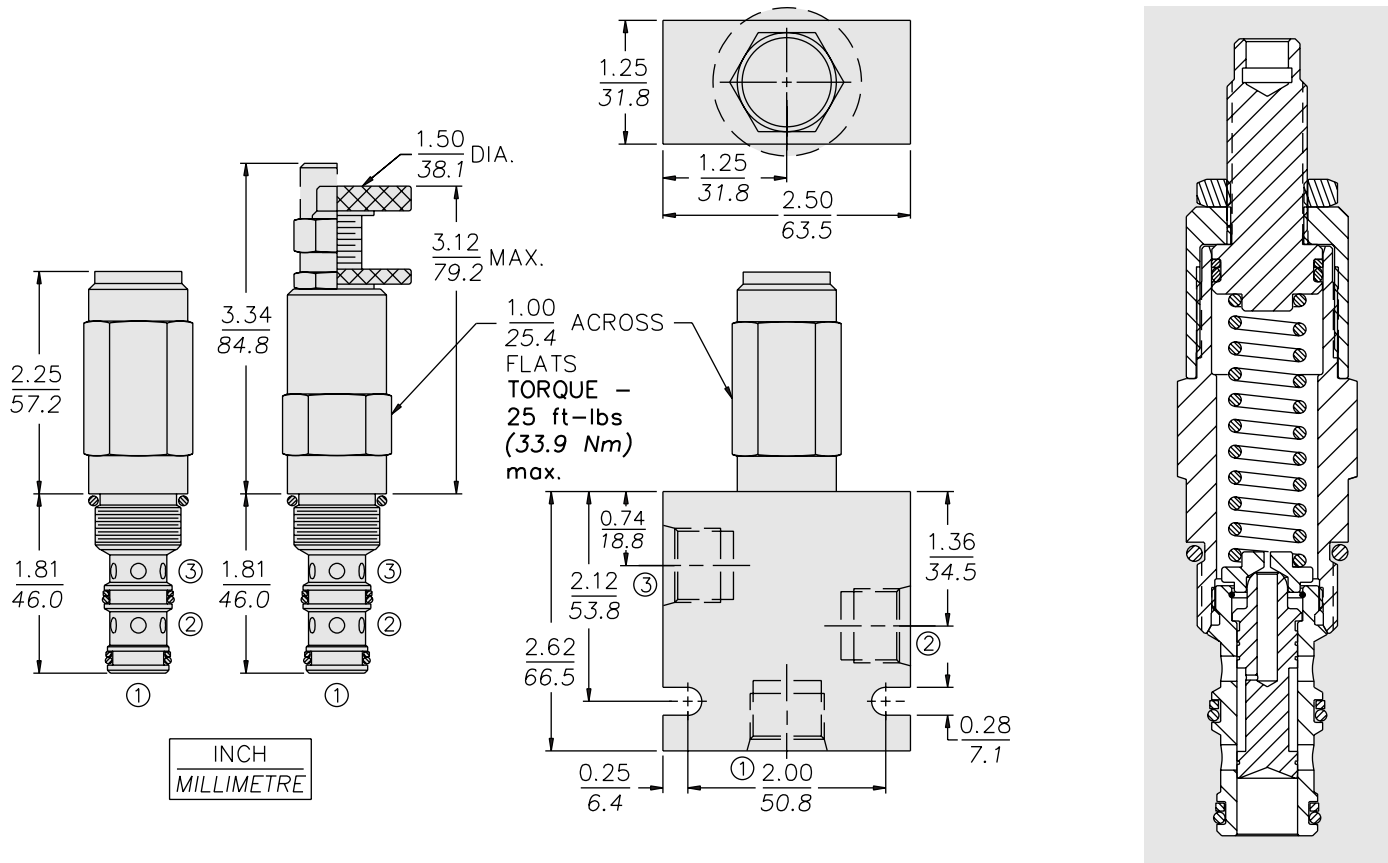
MATERIALS

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
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

PS10-30__ - _____ - _ - ___ / _____

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**
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**

*BSP Body; U.K. Mfr. Only

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

Setting in bar†
(Blank)	for Adjustable, or Specify, for example:
M25	25 bar
M100	100 bar

Setting in psi†
(Blank)	for Adjustable, or Specify, for example:
9.0	900 psi
21.0	2100 psi

Spring Range
4	2.8 to 27.6 bar (40 to 400 psi)
21	14.5 to 144.8 bar (210 to 2100 psi)

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