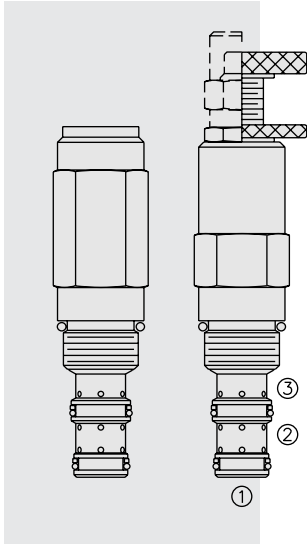


KS10-30 Kick-Down, Sequence, Internal Pilot



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. The valve will remain shifted until the pressure in the secondary circuit falls below a lower pressure setting determined by a second spring.

OPERATION

In its steady state, the **KS10-30** 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. The ① to ② flow path will remain open until the pressure in the secondary circuit falls below a lower pressure setting determined by a second spring.

Note: Primary spring setting should be greater than secondary spring value.

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: 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

Crack Pressure Defined: bar (psi) evident at ① when 0.95 lpm (0.25 gpm) attained ① to ②

Standard Spring Ranges (Primary Spring):

10 to 103 bar (150 to 1500 psi); 27.6 to 207 bar (400 to 3000 psi)

Standard Spring Setting (Optional Secondary Spring):

7 bar (100 psi); 10 bar (150 psi); 14 bar (200 psi); 17 bar (250 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

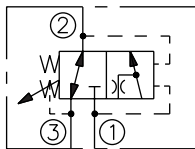
Cavity: VC10-3; See page 9.110.1

Cavity Tool: CT10-3XX; See page 8.600.1

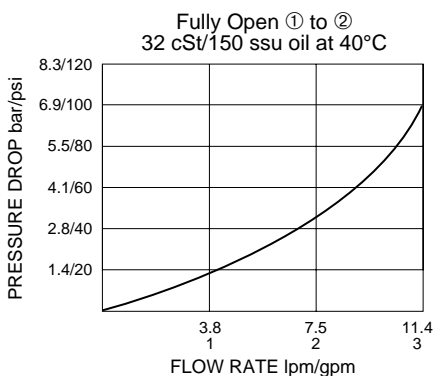
Seal Kit: SK10-3X-BB; See page 8.650.1

SYMBOLS

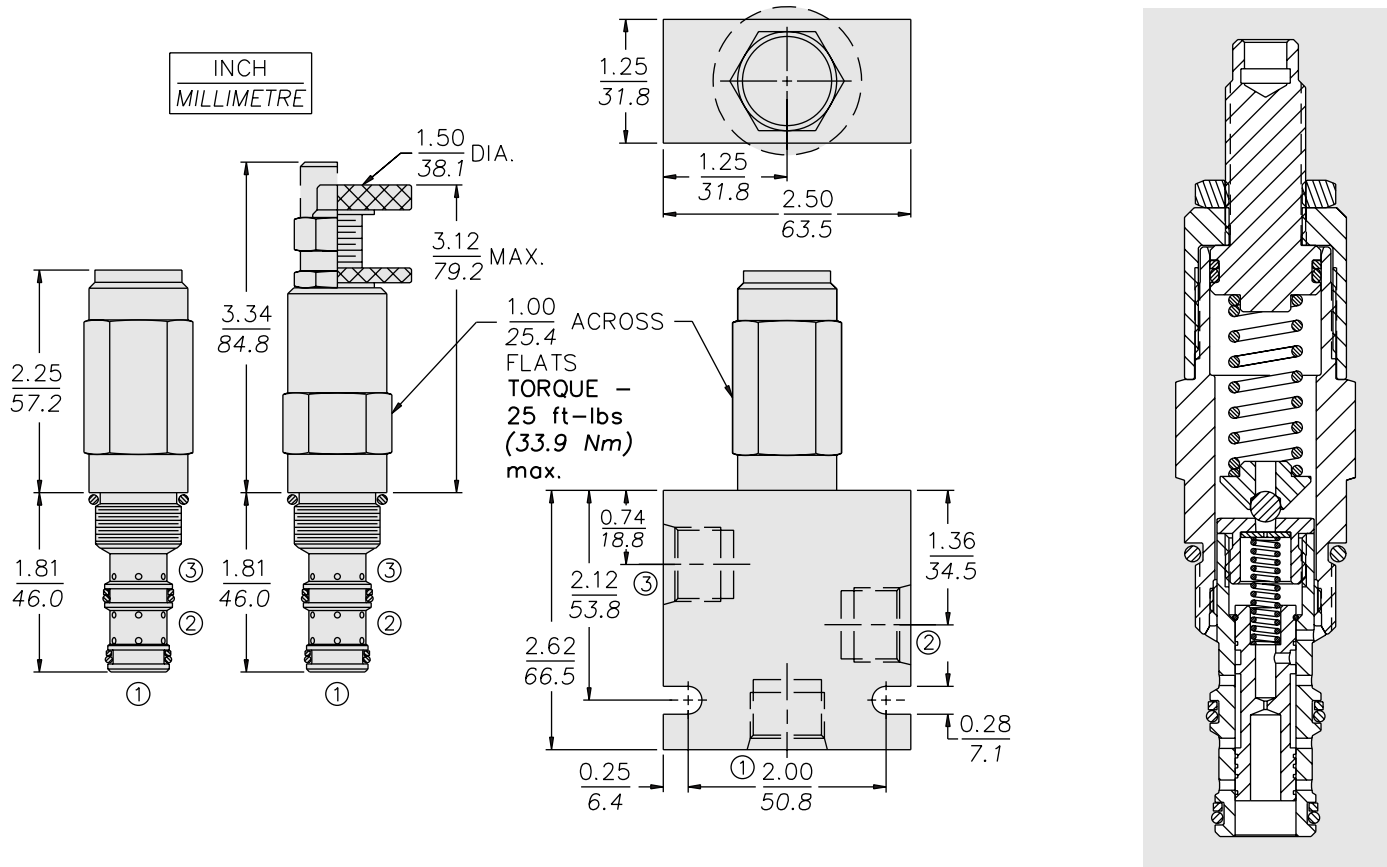
USASI/ISO:



PERFORMANCE (Cartridge Only)



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

KS10-30 - - - /

<p>Adjustment Option</p> <p>1/4 in. Hex Allen Head A</p> <p>1-1/2 in. Dia. Alum Knob B</p> <p>Option A w/Cover Cap C</p> <p>Factory Preset Non-Adjst. F</p> <p>Factory Preset Hidden Adjustment H</p> <p>Option C w/Lockwire Holes L</p>	<p>Porting</p> <p>Cartridge Only 0</p> <p>SAE 6 6T</p> <p>SAE 8 8T</p> <p>1/4 in. BSP* 2B</p> <p>3/8 in. BSP* 3B</p>	<p>Seals</p> <p>Buna N (Std.) N</p> <p>Fluorocarbon V</p>	<p>Primary Spring Setting[†]</p> <p>(Blank) for Adjustable, or Specify, for example:</p> <p>9.0 900 psi</p> <p>21.0 2100 psi</p>	<p>Secondary Spring Setting</p> <p>A 7 bar (100 psi)</p> <p>B 10 bar (150 psi)</p> <p>C 14 bar (200 psi)</p> <p>D 17 bar (250 psi)</p>	<p>Primary Spring Range</p> <p>15 10 to 103 bar (150 to 1500 psi)</p> <p>30 27.6 to 207 bar (400 to 3000 psi)</p>
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*BSP Body; U.K. Mfr. Only

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