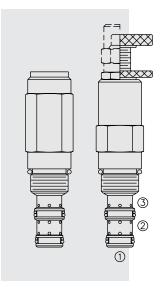
# KS10-30 Kick-Down, Sequence, Internal Pilot

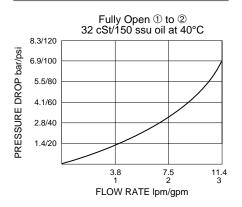


## SYMBOLS

#### **USASI/ISO:**



## PERFORMANCE (Cartridge Only)



#### 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 ③ 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

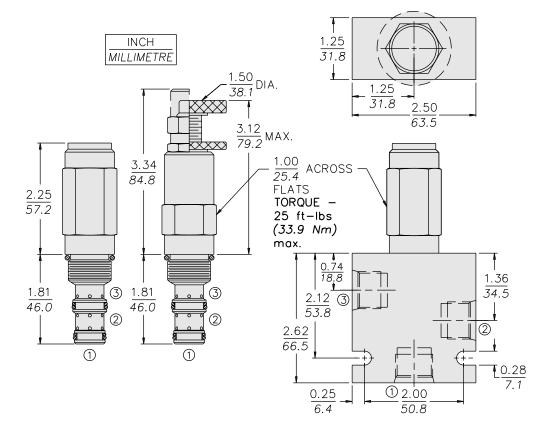
Cavity: VC10-3; See page 9.110.1

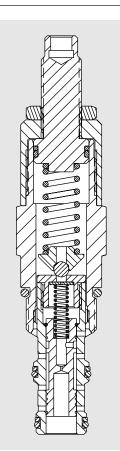
Cavity Tool: CT10-3XX; See page 8.600.1

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

# KS10-30

#### 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 highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

## **TO ORDER**

