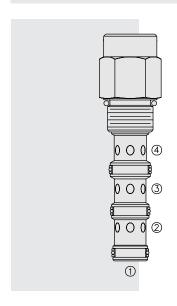
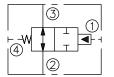
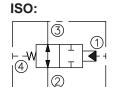
PD12-45 Piloted 2-Way Spool



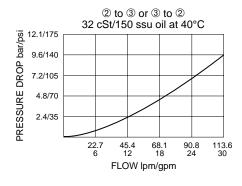
SYMBOLS

USASI:





PERFORMANCE (Cartridge Only)



DESCRIPTION

A screw-in, cartridge-style, pilot-operated, spool-type, hydraulic directional valve for two-way circuits requiring remote pilot actuation.

OPERATION

In neutral (unpiloted), the **PD12-45** allows flow from 3 to 2 bidirectionally. The spring chamber is directed to port 4.

On remote pilot signal at 1, the valve shifts to block from 3 to 2, bidirectionally. Since 4 is common to the spring chamber, pressure on 4 will directly (1:1) affect the pilot pressure required, and must always be added to the bias spring value.

FEATURES

- Hardened spool and cage for long life.
- · Cost effective cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage: 115 cc/minute (7 cu. in./minute) max. at 207 bar (3000 psi)

Pilot Pressure Required Using 7.6 bar (110 psi) Spring:

To Spool Crossover: 7.6 bar (110 psi) To Full Spool Shift: 9.1 bar (132 psi)

Oil Volume Required to Full Shift: 1.32 cc (0.08 cu. in.) 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

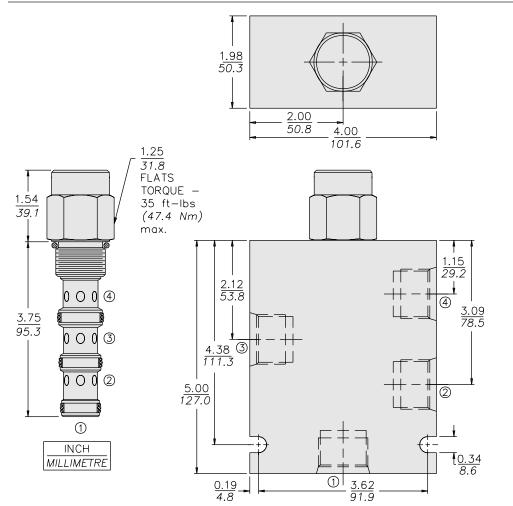
Cavity: VC12-4; See page 9.112.2

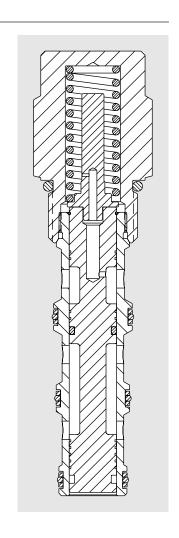
Cavity Tool: CT12-4XX; See page 8.600.1 Seal Kit: SK12-4X-MMM; See page 8.650.1



PD12-45

DIMENSIONS





MATERIALS

Cartridge: Weight: 0.28 kg. (0.61 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Standard Ported Body: Weight: 1.5 kg. (3.3 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

TO ORDER

