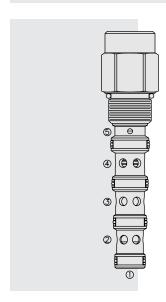
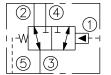
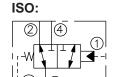
PD12-S50 Piloted 3-Way Spool with Vented Spring



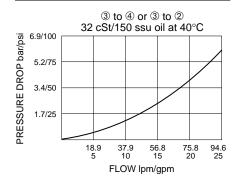
SYMBOLS

USASI:





PERFORMANCE (Cartridge Only)



DESCRIPTION

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

OPERATION

In neutral (unpiloted), the **PD12-S50** allows flow from ③ to ② bidirectionally, while flow is blocked at ④.

On remote pilot signal at ①, the valve shifts to open ③ to ④ while blocking ②.

The spring chamber is vented to the tank through port \$, which is, optionally, O-ring sealed from the cartridge flow paths. The vented spring chamber allows the valve to be fully pressurized at ports \$, \$ and \$ without affecting required pilot pressure. Pressure at \$ will affect required pilot pressure.

FEATURES

- · Hardened spool and cage for long life.
- Optional sealed pilot and spring chamber.

RATINGS

Maximum Operating Pressure: 241 bar (3500 psi)

Flow: See Performance Chart

Internal Leakage: 164 cc/minute (10 cu. in./minute) on all flow ports at maximum operating pressure. The sealed pilot version exhibits no leakage at ports ① and ⑤ at maximum pressure.

Oil Volume Required to Full Shift: 1.07 cc (0.065 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

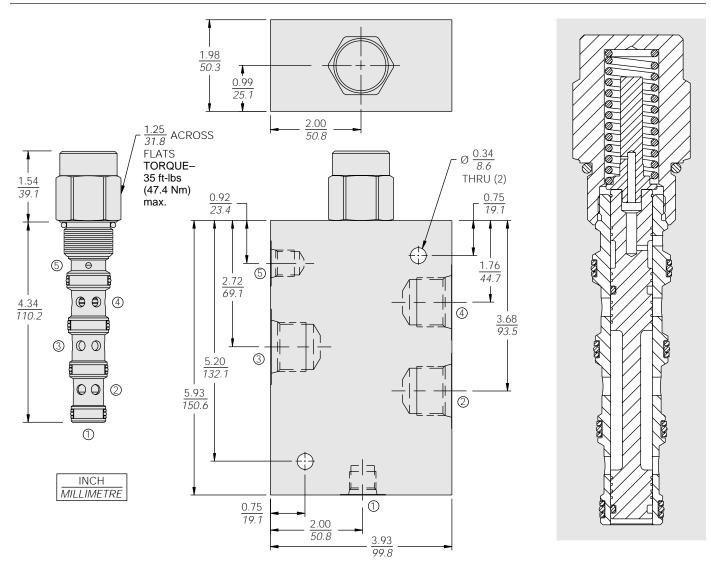
Installation: No restrictions; See page 9.020.1

Cavity: VC12-S5; See page 9.112.1
Cavity Tool: CT12-S5; See page 8.600.1
Seal Kit: SK12-S5X-MMMM; See page 8.650.1



Chamber PD12-S50

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.375 kg. (0.83 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

