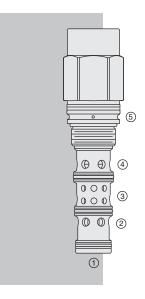
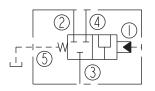
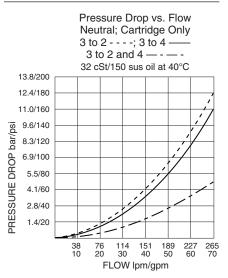
# HPD42-S52 HyPerformance<sup>™</sup> Piloted 3-Way Spool



## **ISO SYMBOL**



#### PERFORMANCE (Cartridge Only)



### DESCRIPTION

A screw-in, cartridge-style, pilot-operated, spool-type, hydraulic directional valve for use in high pressure applications.

#### **OPERATION**

When in neutral the **HPD42-S52** blocks flow between all ports. On remote pilot signal at 1, the valve's spool shifts to allow flow between ports 2, 3 and 4. The spring chamber is vented to the tank through port 5. The vented spring chamber allows the valve to be fully pressurized at ports 1, 2, 3, and 4 without affecting required pilot pressure. Pressure at port 5 will increase the required pilot pressure at a 1:1 ratio.

#### FEATURES

- Hardened spool and cage for long life.
- All HyPerformance<sup>™</sup> products are tested to the rigorous standards of the NFPA specification T2.6.1.
- All HyPerformance<sup>™</sup> valves are tested at a verification level of 90% and an assurance of 99%.

#### RATINGS

Operating Pressure: 350 bar (5075 psi); 10% cycle life: 420 bar (6090 psi) Note: All HyPerformance™ products are tested for 900K cycles at 350 bar and 100K at 420 bar.

Proof Pressure: 690 bar (10000 psi)

Burst Pressure: 1380 bar (20000 psi)

Flow Rating: Maximum total input flow 265 lpm (70 gpm)

Internal Leakage: 328 ml/minute (20 cu. in./minute) at 350 bar (5075 psi)

**Operating Temperature:** -54 to 107°C (-65 to 225°F) with PPDI urethane seals **Filtration:** See page 9.010.1

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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: HVC42-S5; See page 9.142.1

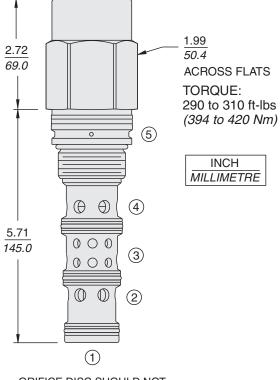
Cavity Tool: HCT42-5XX; See page 8.600.1

Seal Kit: HSK42-S5U-0000 (Urethane); See page 8.650.1



# HPD42-S52

#### DIMENSIONS



ORIFICE DISC SHOULD NOT BE USED WITH THIS PRODUCT.

#### **MATERIALS**

#### **TO ORDER**

