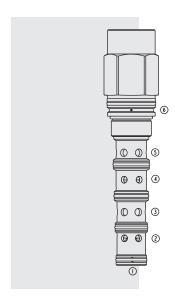
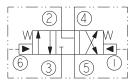
HPD42-S67D HyPerformance™ Piloted 4-Way Spool



ISO SYMBOL



DESCRIPTION

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

OPERATION

When the **HPD42-S67D** is in neutral position, port 3 is blocked and flow is allowed between ports 2, 4 and 5. When remote pilot signal at 1 exceeds force of bias spring, the spool shifts to allow flow from 3 to 4 and from 2 to 5. When remote pilot signal at 6 exceeds force of bias spring, the spool shifts to allow flow from 3 to 2 and from 4 to 5.

FEATURES

- Hardened spool and cage for long life.
- Flows up to 379 lpm/100 gpm.
- 1000 hour salt spray tested.
- Vibration tested (3-axis) to 20G RMS.
- HyPerformance[™] product tested to rigorous standards of NFPA specification T2.6.1.
- HyPerformance[™] valve tested at 90% verification level and 99% assurance.

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

Fatique Rating: 2 million cycles at 420 bar/6090 psi.

Burst Pressure: 1380 bar (20000 psi)

Flow: 189 lpm (50 gpm); See Performance Chart

Maximum Internal Leakage: at 350 bar (5075 psi): 820 ml/minute (50 cu. in./minute) **Operating Temperature:** -54° to 107°C (-65° to 255° F) with PPDI Urethane seals.

Operating reinperature. -54 to 107 C (-05 to 255 F) with FFDI Orethane seat

Ambient Temperature: -40° to 90°C (-40° to 194° F)

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

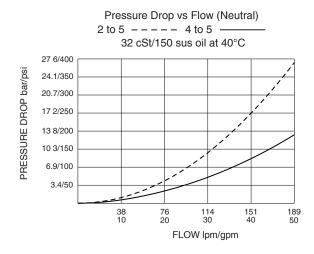
Note: Adaptor lock kit HF P/N 4207540 (sold separately) may be required when

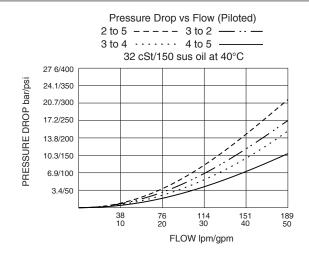
pilot pressure exceeds 35 bar (500 psi). **Cavity:** HVC42-S6; See page 9.142.1

Cavity Tool: HCT42-S6XX; See page 8.600.1

Seal Kits: HSK42-S6U-T0000 (PPDI Urethane). See page 8.650.1.

PERFORMANCE (Cartridge Only)

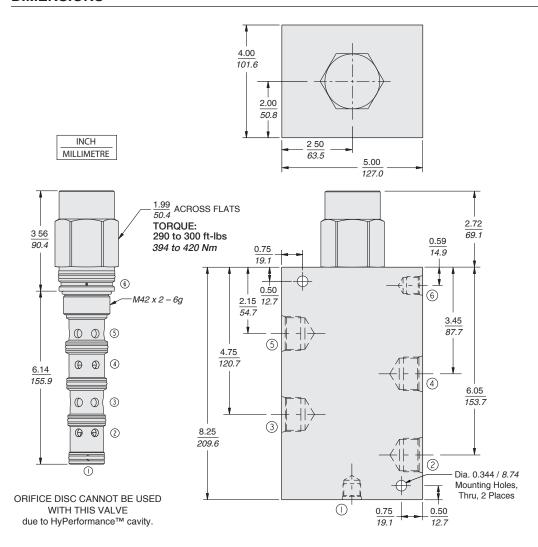






HPD42-S67D

DIMENSIONS



MATERIALS

Cartridge: Weight: 2.0 kg. (4.5 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Urethane seals without backup rings standard.

Ported Body: Weight 16.61 kg (36.62 lbs). HyPerformance™ ductile iron (code 'D') standard. Rated to 354 bar (5000 psi). See page 8.042.1

TO ORDER

