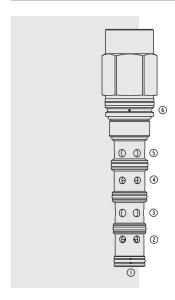
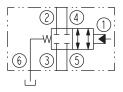
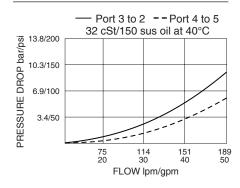
HPD42-S63 HyPerformance™ Piloted 4-Way



SYMBOL



PERFORMANCE (Cartridge Only)



DESCRIPTION

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

OPERATION

In the neutral position, the **HPD42-S63** blocks flow at all ports. On remote pilot signal at 1, the valve shifts to allow flow between ports 2 and 3, and between 4 and 5 bidirectionally. The spring chamber is vented to the tank through port 6. The vented spring chamber allows the valve to be fully pressurized at ports 1, 2, 3, 4 and 5 without affecting required pilot pressure. Pressure at 6 will increase the required pilot pressure at a 1:1 ratio.

FEATURES

- Hardened spool and cage for long life.
- Optional sealed spool between ports 1 and 2.
- All HyPerformance[™] products are tested to the rigorous standards of the NFPA specification T2.6.1 and 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: 630 bar (10000 psi) Burst Pressure: 1380 bar (20000 psi) Flow Rating: 189 lpm (50 gpm)

Maximum Internal Leakage: at 350 bar (5075 psi) with 32 cSt oil:

Ports 3 to 4: 740 ml/minute (45 cu. in./minute) Ports 3 to 2: 370 ml/minute (23 cu. in./minute)

Temperature: -40 to 100° C (-40 to 212° F) with Buna N seals; -26 to 204° C (-15 to 400° F) with Viton seals; -54 to 107° C (-65 to 225° F) with Urethane 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: HVC42-S6; See page 9.142.1

Cavity Tool: HCT42-S6XX; See page 8.600.1

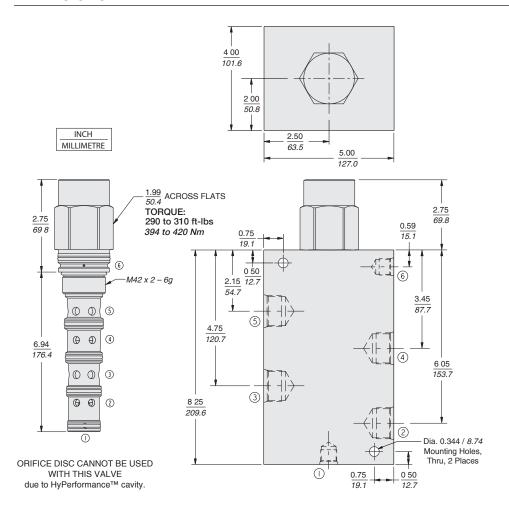
Seal Kit: HSK42-S6X-BMMMM (Buna N), HSK42-S6V-BMMMM (Viton),

HSK42-S6U-0000 (Urethane); See page 8.650.1

Directional Valve

HPD42-S63

DIMENSIONS

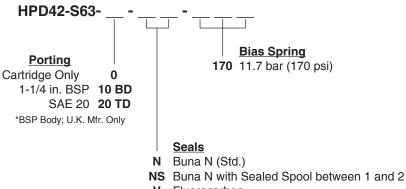


MATERIALS

Cartridge: Weight: 2.0 kg. (4.3 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces.

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



- V Fluorocarbon
- VS Fluorocarbon with Sealed Spool between 1 and 2
- PPDI Urethane
- US PPDI Urethane with Sealed Spool between 1 and 2

Note: PPDI Urethane seals are recommended for pressures over 241 bar (3500 psi).

Note: Consult factory for additional seal options.