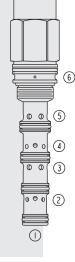
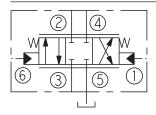
HPE16-S67C HyPerformance[™] Proportional,

U.S. Patent 6,554,014



SYMBOLS



DESCRIPTION

A high pressure, screw-in, cartridge-style, proportional, spring-centered, pilotoperated spool-type hydraulic directional valve.

OPERATION

When the **HPE16-S67C** is in neutral position all ports are blocked. When the remote pilot signal at 1 exceeds the force of the bias spring, the spool shifts proportionally to the applied pilot pressure to allow flow from 3 to 4 through a load such as a hydraulic cylinder or motor, and from 2 to 5 and to tank. Port 5 is to be used as tank port only with maximum pressure of 69 bar (1000 psi). On remote pilot signal at 6 the spool shifts proportionally to the applied force in the opposite direction, this reversing the flow direction. **The valve's spool is symmetrical, providing meter-in and meter-out control.**

FEATURES

- Hardened spool and cage for long life.
- Cost-effective cavity.
- Excellent metering characteristics.
- · Good linearity.
- All HyPerformance[™] products are tested to the rigorous standards of the NFPA specification T2.6.1.
- All HyPerformance[™] valves are tested at a verification level of 90% and an assurance of 99%.

RATINGS

Maximum Operating Pressure: Ports 2, 3, 4: 350 bar (5075 psi) 10% cycle life: 420 bar (6090 psi); Ports 1 and 6 (pilot): 35 bar (500 psi); Port 5 (tank): 69 bar (1000 psi)

Proof Pressure: 690 bar (10000 psi); **Burst Pressure:** 1380 bar (20000 psi) **Flow:** 95 lpm (25 gpm)

Internal Leakage: 330 ml/minute (20 cu. in./minute) at 350 bar (5075 psi) Temperature: -54° to 107°C (-65° to 225° F) with PPDI Urethane seals Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of

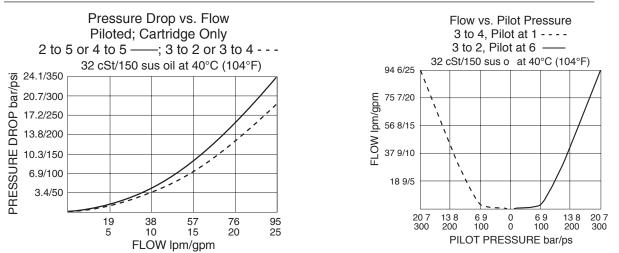
7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1 **Installation:** No restrictions; See page 9.020.1

Cavity: HVC16-S6; See page 9.116.1

Cavity Tool: HCT16-S6; See page 8.600.1

Seal Kit: HSK16-S6U-0000 (Urethane); See page 8.650.1

PERFORMANCE (Cartridge Only)



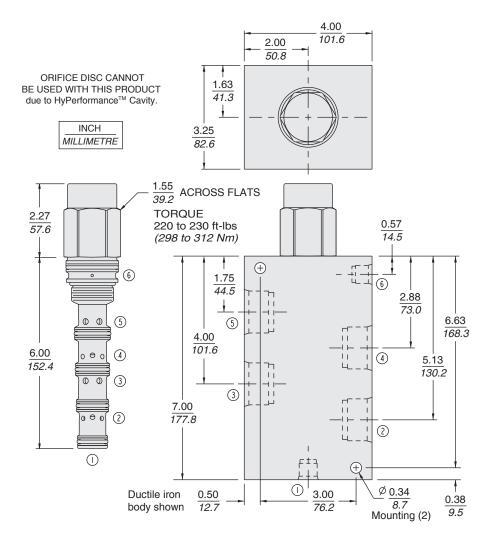


HPE16-S67C

Pilot Operated

DIMENSIONS

U.S. Patent 6,554,014

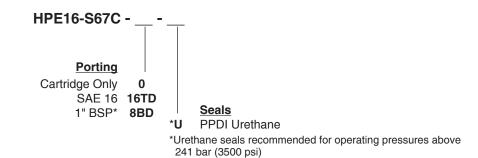


MATERIALS

Cartridge: Weight: 1.1 kg. (2.4 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Urethane seals without back-up rings standard. Ported Body: Weight: 9.1 kg. 20.1 lbs.

HyPerformance[™] ductile iron (code 'D') standard. Rated to 345 bar (5000 psi). See page 8.016.1.

TO ORDER



NOTE: Consult factory for additional seal options.