HSV10-24 HyPerformance Spool, 2-Way

DESCRIPTION
A solenoid-operated, 2-way, spool-type, screw-in hydraulic cartridge valve, designed to function as a bi-directional blocking valve in high pressure applications.

OPERATION
When de-energized, the HSV10-24 blocks flow in both directions. When energized, the valve opens to allow bi-directional flow.

FEATURES
• Continuous-duty rated solenoid.
• Hardened seat for long life and low leakage.
• Optional coil voltages and terminations.
• Efficient wet-armature construction.
• Cartridges are voltage interchangeable.
• Waterproof E-Coils rated up to IP69K.
• 1000-hour salt-spray rated solenoid tubes and coils.
• Unitized, molded coil design.
• 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
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 cycles at 420 bar.
Proof Pressure: 690 bar (10,000 psi)
Burst Pressure: 1380 bar (20,000 psi)
Flow Rating: Up to 30.3 lpm (8 gpm)
Maximum Internal Leakage (at 350 bar/5075 psi): Port 2 to 1: 50 ml/minute (3.1 cu.in/minute); Port 1 to 2: 250 ml/minute (15.3 cu.in/minute)
Coil Duty Rating: Continuous from 85% to 115% of nominal voltage
Initial Coil Current Draw at 20°C: 1.7 amps at 12 VDC; 0.85 amps at 24 VDC
Temperature: -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: HVC10-2; See page 9.110.1
Cavity Tool: HCT10-2xx; See page 8.600.1
Seal Kit: SK10-2U-O; See page 8.650.1
Coil Nut: Part No. 4555250
Bi-Directional Blocking

HSV10-24

DIMENSIONS

**Adjustment Option “T”**

- **ORIFICE DISC CANNOT BE USED WITH THIS PRODUCT due to HyPerformance™ Cavity.**

**Materials**

- **Cartridge:** Weight: 0.19 kg. (0.41 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Urethane seals without back-up rings standard.
- **Ported Body:** Weight: 1.19 kg. (2.62 lbs.); H-series ductile iron standard. Rated to 345 bar (5000 psi). See page 8.010.1.
- **E-Coil:** Weight: 0.41 kg. (0.9 lbs.); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors. See page 3.400.1.

**To Order**

- **HSV10-24**

- **Option**
  - None (Blank)
  - Manual Override T

- **Porting**
  - Cartridge Only
  - SAE 8
  - 8HT
  - 1/2 in. BSP*
  - 4HB

- **Voltage**
  - 0 Less Coil**
  - 12 12 VDC
  - 24 24 VDC

- **Seals**
  - PPDI Urethane U
  - Recommended for pressures above 241 bar (3500 psi).

- **Note:** Consult factory for additional seal options.

**Coil Termination**

- Deutsch DT04-2P
- Metri-Pak 150
- Dual Lead Wires
- Amp Jr. Timer
- DIN 43650
- EJ (IP67)
- EG (IP65)

**For Coils with Zener Diode, add “/Z” to option code.**

**Recommended for pressures above 241 bar (3500 psi).**

**Note:** Consult factory for additional seal options.