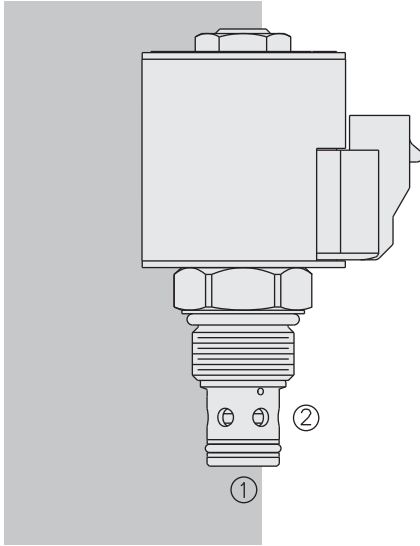
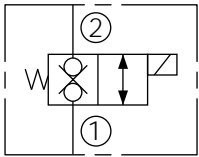


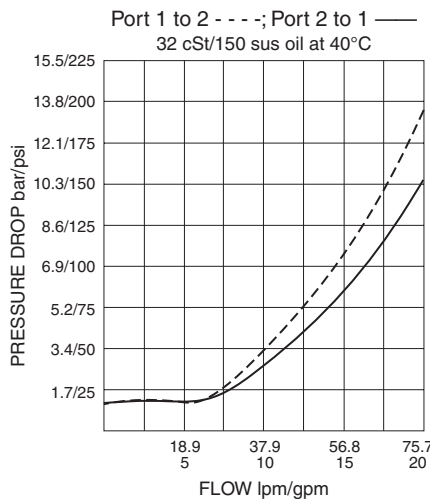
## HSV10-28 HyPerformance™ Poppet, 2-Way, N.C.



### SYMBOL



### PERFORMANCE (Cartridge Only)



### DESCRIPTION

A solenoid-operated, 2-way, piloted, normally closed, poppet-type, bi-directional, screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in high pressure applications requiring low internal leakage bi-directionally.

### OPERATION

When energized, the **HSV10-28** allows flow in both directions. When de-energized, the valve blocks flow in both directions.

### 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.

**Burst Pressure:** 1380 bar (20,000 psi)

**Flow:** Up to 75.7 lpm (20 gpm)

**Internal Leakage:** 0.25 cc/minute (5 drops/minute) max. at 350 bar (5075 psi)

**Temperature:** -54° to 107°C (-65° to 225°F) with Urethane seals

**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

**Minimum Pull-in Voltage:** 85% of nominal at 207 bar (3000 psi)

**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

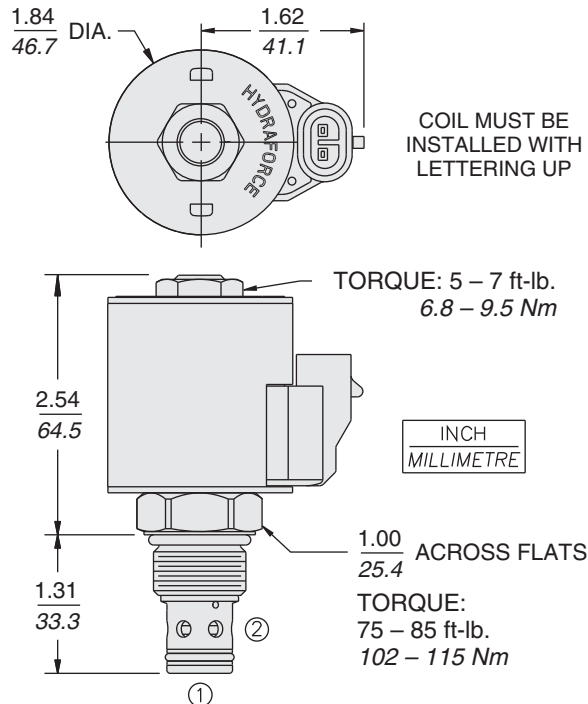
**Cavity:** HVC10-2; See page 9.110.1

**Cavity Tool:** HCT10-2xx; See page 8.600.1

**Seal Kit:** SK10-2U-O; See page 8.650.1

**Coil Nut:** Part No. 4553800

**DIMENSIONS**

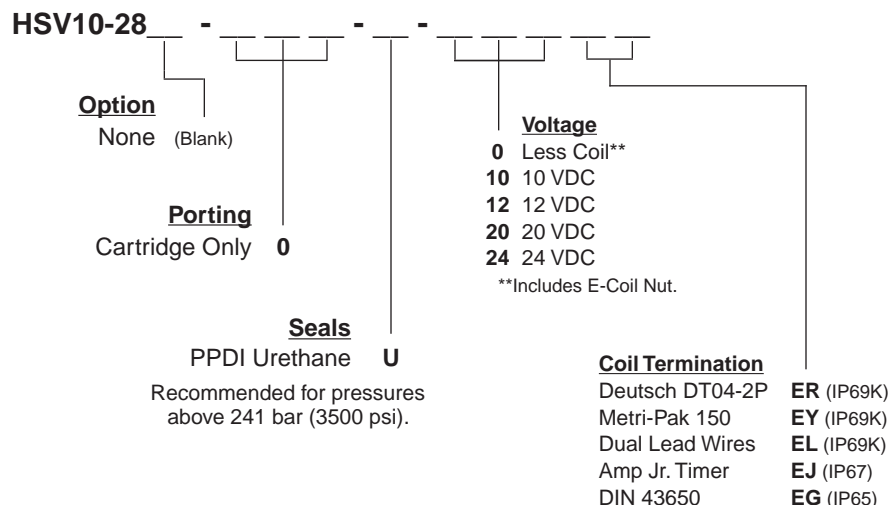


ORIFICE DISC CANNOT BE USED WITH THIS PRODUCT due to HyPerformance™ Cavity.

**MATERIALS**

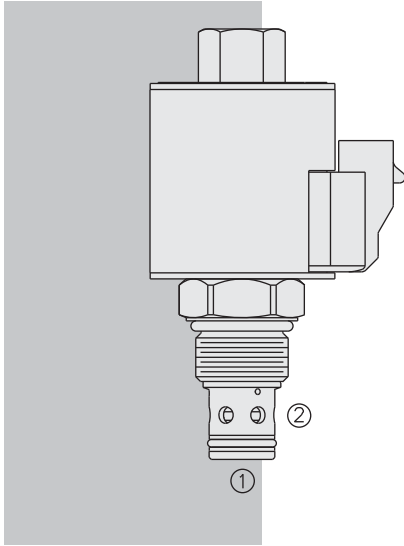
- Cartridge:** Weight: 0.18 kg. (0.39 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Urethane O-ring without back-up standard.
- Ported Body:** Ductile iron recommended for operating pressures above 207 bar (3000 psi). Consult Factory.
- E-Coil:** Weight: 0.41 kg. (0.9 lbs.); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors. See page 3.400.1.

**TO ORDER**



For Coils with Zener Diode, add "Z" to option code. For example: "ER/Z". Not available on all models. See coil option info. on page 3.400.1

## HSV10-29 HyPerformance™ Poppet, 2-Way, N.O.



### DESCRIPTION

A solenoid-operated, 2-way, normally open, piloted, poppet-type, bi-directional screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in high pressure applications requiring low internal leakage.

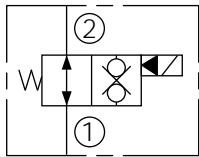
### OPERATION

When de-energized, the **HSV10-29** allows flow in both directions. When energized, the valve blocks flow in both directions.

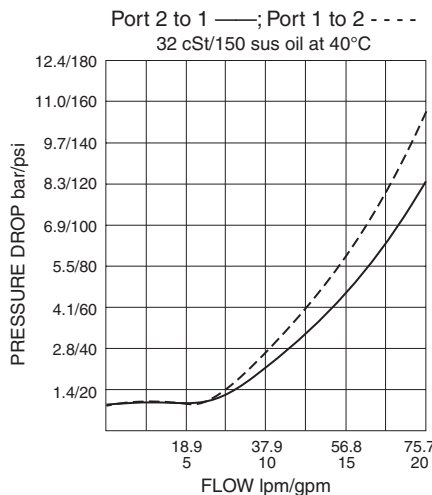
### FEATURES

- 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%.

### SYMBOL



### PERFORMANCE (Cartridge Only)



### 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.

**Burst Pressure:** 1380 bar (20,000 psi)

**Flow:** Up to 75.7 lpm (20 gpm)

**Internal Leakage:** 0.25 cc/minute (5 drops/minute) max. at 350 bar (5075 psi)

**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

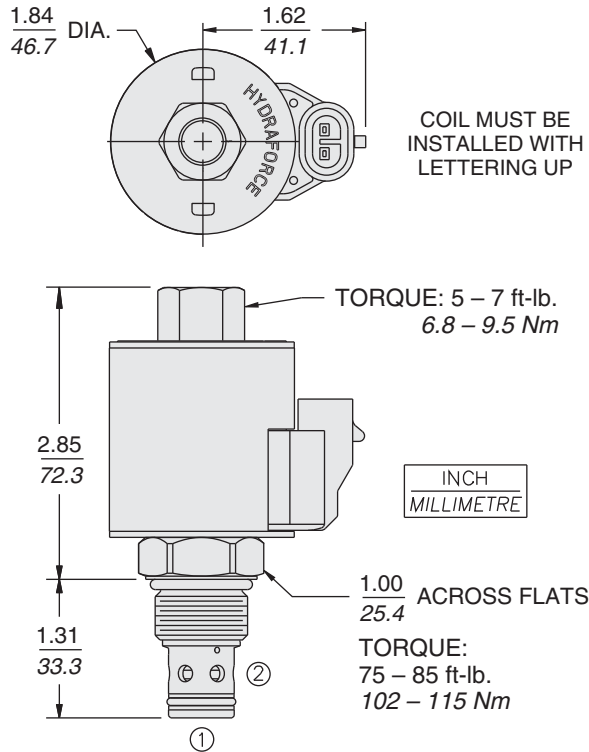
**Cavity:** HVC10-2; See page 9.110.1

**Cavity Tool:** HCT10-2xx; See page 8.600.1

**Seal Kit:** SK10-2U-O; See page 8.650.1

**Coil Nut:** Part No. 4555250

**DIMENSIONS**

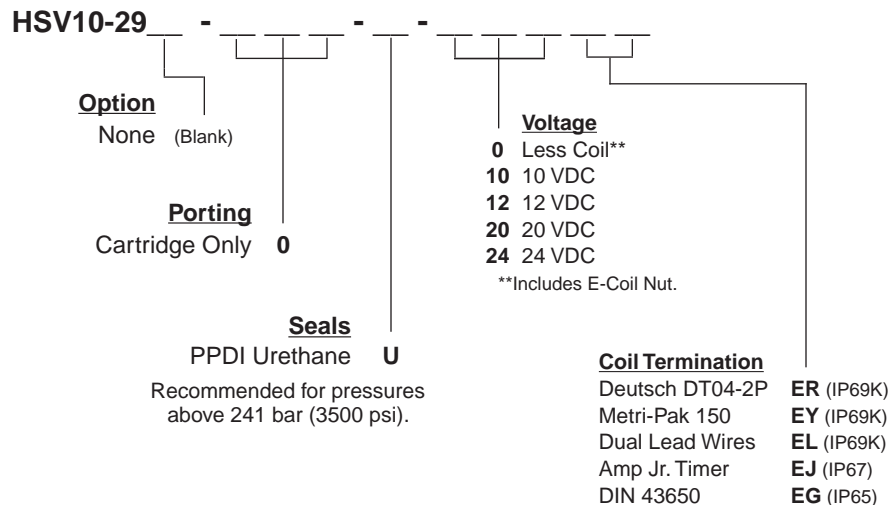


ORIFICE DISC CANNOT BE USED WITH THIS PRODUCT due to HyPerformance™ Cavity.

**MATERIALS**

- Cartridge:** Weight: 0.19 kg. (0.41 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Urethane O-ring without back-up standard.
- Ported Body:** Ductile iron recommended for operating pressures above 207 bar (3000 psi). Consult Factory.
- 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**



For Coils with Zener Diode, add "Z" to option code. For example: "ER/Z". Not available on all models. See coil option info. on page 3.400.1