

## **Solenoid Valves Technical Information**

4-Way, 3-Position Spool HSV10-34-02



#### **OPERATION**

This is a 10-size, 3-Position, 4-Way, spool type solenoid valve. When de-energized, the HSV10-34-02 is closed center, blocking all flow. When coil S1 is energized, the spool shifts to allow flow from port 3 to port 4, and from port 2 to 1. When coil S2 is energized, the spool shifts to allow flow from port 3 to port 2, and from port 4 to port 1. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation. The HSV10-34-02 comes standard with a one-direction, push-pin manual override. When the manual override is pushed, the spool shifts following the logic of energizing S2.



Shown with High Pressure Coils, Deutsch Connectors

### **APPLICATIONS**

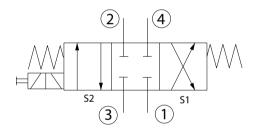
These spool-type valves are primarily used in mobile and industrial applications for controlling the direction of the flow in a circuit. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application requires no leakage at the working port(s), apply a low leakage poppet valve(s), like PO check valve, counterbalance valve, etc., in addition to this solenoid valve. Use the optional screen to help protect the actuator from large particles. This valve comes standard with a manual override (one-direction, push-pin style). Port 1 is not intended as inlet (Tank only).

#### **SPECIFICATIONS**

Rated pressure*	350 bar [5075 psi]*
Rated flow at 7 bar	25 l/min
[100 psi]	[6.6 US gal/min]
Weight	0.85 kg [1.87 lb]
Cavity	SDC10-4
Standard Coil	<b>H16</b> 29 Watt

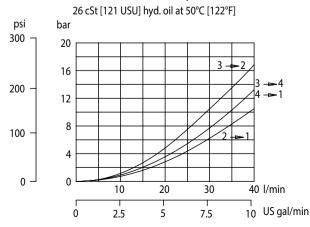
<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

### **SCHEMATIC**

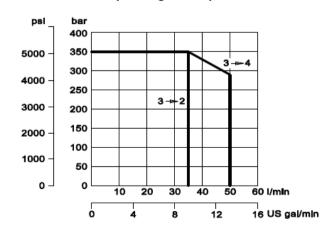


### **PERFORMANCE CURVES**

### Pressure drop



### Operating envelope





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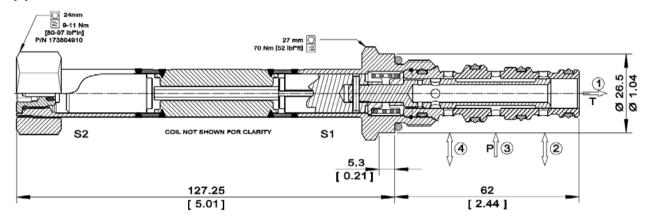


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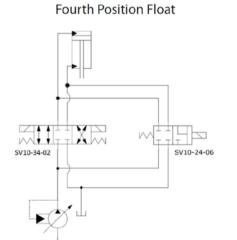
### **DIMENSIONS**

### **Cross-sectional view**

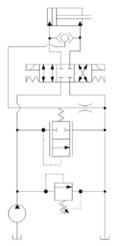
mm [in]



### **EXAMPLE CIRCUITS**



# Double Acting Cylinder with Unloading Valve



Push and Twist

### **ORDERING INFORMATION**

