

Solenoid Valves Catalog 4-Way, 3-Position Spool HSV10-34-02

# **OPERATION**

Solenoid Valve, Spool Type, 3-Position, 4-Way, 10-size. 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. This valve 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. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.

# **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, pushpin style). Port 1 may be pressurized to 210 bar, but is not intended as inlet (Tank only).



Shown with High Pressure Coils, Deutsch Connectors

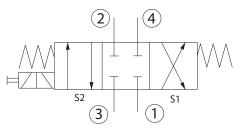
# SV - Solenoid Valves HSV10-34-02

#### SPECIFICATIONS

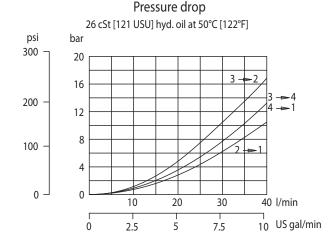
Rated pressure*	350 bar [5075 psi]*	
Rated flow at 7 bar	25 l/min	
[100 psi]	[6.6 US gal/min]	
Weight	0.85 kg [1.87 lb]	
Cavity	SDC10-4	
Standard Coil	H16 29 Watt	

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





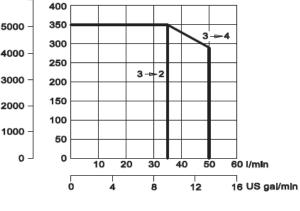
#### **PERFORMANCE CURVES**





DS

bar



Operating envelope



1.04

### Solenoid Valves Catalog 4-Way, 3-Position Spool RESPONSIVENESS IN MOTION Member of the Danfoss Group HSV10-34-02 DIMENSIONS Cross-sectional view mm [in] 24mm ≥ 9-11 Nm [80-97 lbf\*in] P/N 173804910 27 mm 🚫 70 Nm [52 lbf\*ft] 😒 26.5 1 т ØØ X VIII A VIII A **S**2 COIL NOT SHOWN FOR CLARITY **S**1 РĺÌ 2 4 3 5.3 [ 0.21] 127.25 62 [2.44] [5.01] **EXAMPLE CIRCUITS** Double Acting Cylinder with Unloading Valve Fourth Position Float ndt 1 Ч

**SV - Solenoid Valves** HSV10-34-02

**ORDERING INFORMATION** 

AM

SV10-34-02

#### HSV10 - 34 - 02 - H12D - DE - PN - P High Pressure Solenoid Valve, This is a direct-acting, 3-position, 4-way, spool-type solenoid valve. Coil Voltage Code Description H00 No Coil 12 VDC H12D 24 VDC H24D **Coil Termination** IP Rating Code Description 00 No Coil FL Flying Lead IP 69k DE Deutsch IP 69k AS AMP SuperSeal 1.5 and Metri-Pack 150 type 1 IP 69k IP 69k ASDB AMP Super Seal with Diode Bidirectional DEDB Deutsch with Diode Bidirectional IP 69k FLDB Flying Lead with Diode Bidirectional IP 69k PAT

SV10-24-06

2 - 00							
	Bodies						
		Code	Port & Material	Body Nomenclature			
		00	Cartridge only	No Body			
		S3B	3/8 BSP, Ductile	SDC10-4-S3B			
		S4B	1/2 BSP, Ductile	SDC10-4-S4B			
-		S6S	#6 SAE, Ductile	SDC10-4-S6S			
		S8S	#8 SAE, Ductile	SDC10-4-S8S			
	*** Aluminum bodies available for lower pressure						
	application. Please consult factory for details.						
Seal Option							
	Code Seal Material		Seal kit				
	Р	Polyurethane Single Seal		11143824	11143824		
Manual Override							
Code	Description						
PN	Push Pin						
OPS	Push Pin M/O Nut for Protection & Actuation						
PAT	Push and Twist						