Solenoid Valves Technical Information
2-Way Spool
HSV10-22-01

OPERATION
This is a Spool Type, 2-Position, 2-Way, Normally Open, Push-Type, 10-size Solenoid Valve. When de-energized, the HSV10-22-01 allows flow in both directions. When energized, flow is blocked in both directions. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.



Shown with Standard H16 Coil, Deutsch Connector

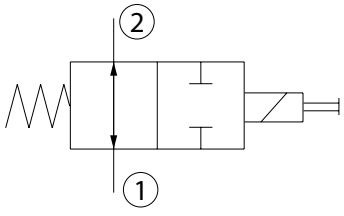
APPLICATIONS
These spool-type valves are primarily used in mobile and industrial applications for blocking the flow of a 2-way function, pump unloading or cylinder regeneration. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage 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.

SPECIFICATIONS

Rated pressure*	350 bar [5075 psi]*
Rated flow at 7 bar [100 psi]	50 l/min [13 US gal/min]
Weight	0.42 kg [0.93 lb]
Cavity	**SDC10-2**
Standard Coil	**H16** 29 Watt

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

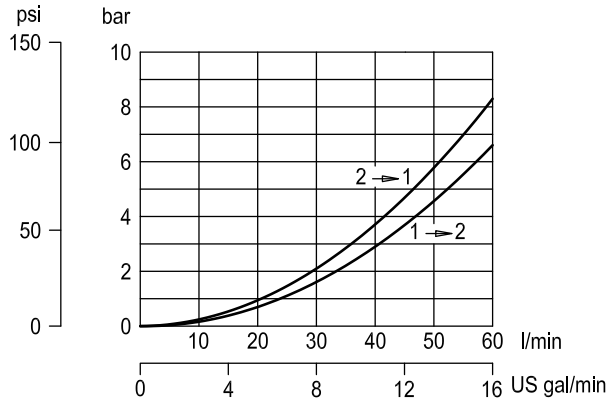
SCHEMATIC



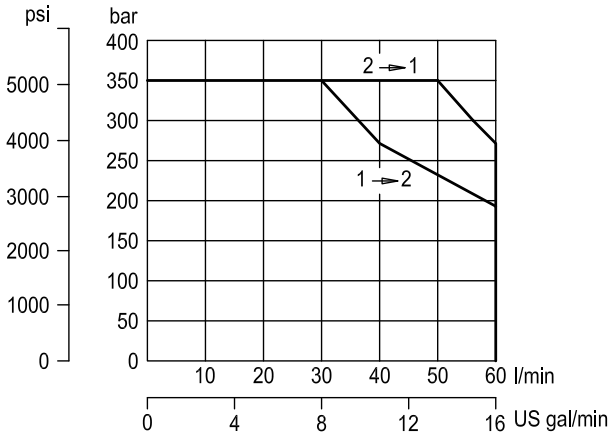
PERFORMANCE CURVES

Pressure Drop

26 cSt [121 SUS] hyd.oil at 50C [122F]



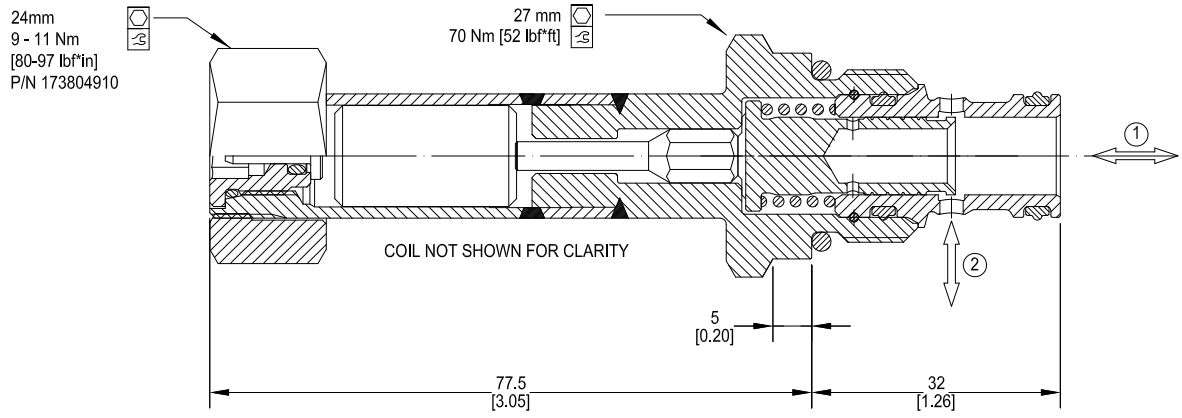
Operating Envelope



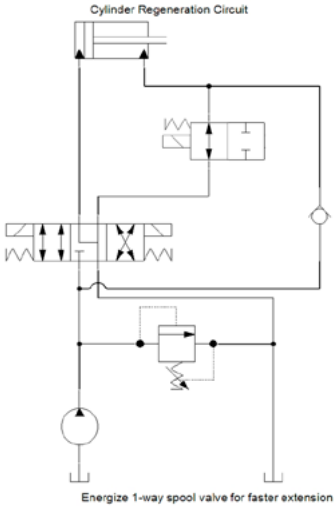
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DIMENSIONS
mm [in]

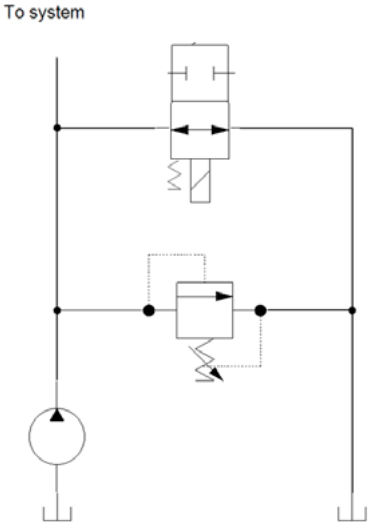
Cross-sectional view



EXAMPLE CIRCUITS



Pump Unloading



ORDERING INFORMATION

HSV10 - 22 - 01 - H12D - DE - PN - P - 00

High Pressure Solenoid Valve, Normally-Open, Direct-Acting, 10 Size, Spool Type

Coil Voltage

Code	Description
H00	No Coil
H12D	12 VDC
H24D	24 VDC

Coil Termination

Code	Description	IP Rating
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
ASDB	AMP Super Seal with Diode Bidirectional	IP 69k
DEDB	Deutsch with Diode Bidirectional	IP 69k
FLDB	Flying Lead with Diode Bidirectional	IP 69k

Bodies

Code	Port & Material	Body Nomenclature
00	Cartridge only	No Body
S3B	3/8 BSP, Ductile	SDC10-2-S3B
S4B	1/2 BSP, Ductile	SDC10-2-S4B
S6S	#6 SAE, Ductile	SDC10-2-S6S
S8S	#8 SAE, Ductile	SDC10-2-S8S

*** Aluminium bodies available for lower pressure application. Please consult factory for details.

Seal Option

Code	Seal Material	Seal kit
P	Polyurethane Single Seal	11132135

Manual Override

Code	Description
PN	Push Pin
OPS	Push Pin M/O Nut for Protection & Actuation
PAT	Push and Twist