

Solenoid Valves Technical Information

3-Way, 2-Position Spool HSV10-23-02



OPERATION

Solenoid Valve, Spool Type, 2-Position, 3-Way, Normally Closed, Pull-Type. Recommend the following connections: port 3 to inlet, port 1 to actuator and port 2 to drain. When de-energized, the HSV10-23-02 allows flow from port 1 to port 2, while port 3 is blocked. When energized, flow is allowed from port 3 to port 1, while port 2 is blocked. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.



APPLICATIONS

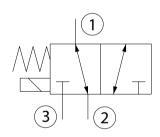
Common applications include on-off control of single-acting cylinders, clutches, or motors. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application requires no leakage at the working port(s), apply a low leakage poppet valve(s), like PO check valve, counterbalance valve, etc., in addition to this solenoid valve. In case of inlet from port 2 this value can be increased to 500,000 cycles.

SPECIFICATIONS

| Rated pressure* | 350bar [5075 psi]* |
|---------------------|--------------------|
| Rated flow at 7 bar | 28 l/min |
| [100 psi] | [7 US gal/min] |
| Weight | 0.57 kg [1.26 lb] |
| Cavity | SDC10-3 |
| Standard Coil | H16 29 Watt |

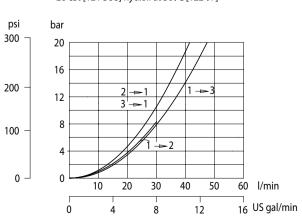
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC

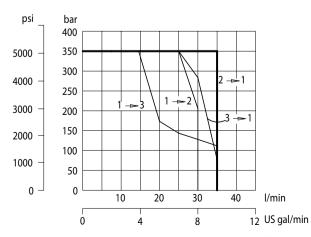


PERFORMANCE CURVES

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



Operating envelope





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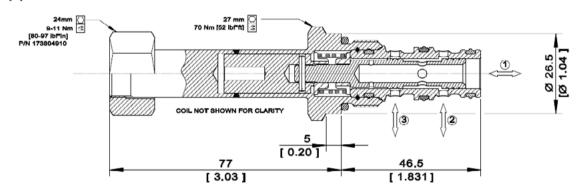


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DIMENSIONS

Cross-sectional view

mm [in]

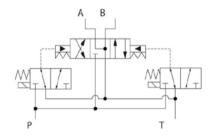


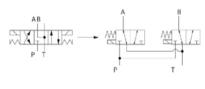
EXAMPLE CIRCUITS

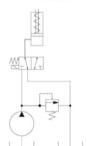




On/Off Pilot Control for Single-Acting Cylinder, Clutch or Brake







ORDERING INFORMATION

