



Solenoid Valves Technical Information

2-Way Spool SV08-22-03



OPERATION

Solenoid Valve, Spool Type, 2-Position, 2-Way, Normally Open, Pull-Type. When de-energized, the SV08-22-03 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 Robust Coil, **Deutsch Connector**

APPLICATIONS

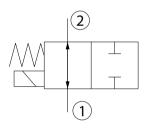
These spool-type valves are primarily used in mobile and industrial applications for blocking the flow of a 2-way function, pump unloading or cylinder regeneration. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool 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. This valve can operate with an inlet pressure of 315 bar for 400,000 cycles. In case of inlet from port 2 this value can be increased to 600,000 cycles.

SPECIFICATIONS

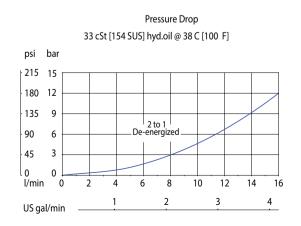
| Rated pressure* | 230 bar [3300 psi]** |
|-----------------|---|
| Maximum flow at | 12 l/min |
| rated pressure | [3.2 US gal/min] |
| Weight | 0.29 kg [0.64 lb] |
| Cavity | SDC08-2 |
| Standard Coil | M13 20 Watt |
| | |
| Robust Coil | R13 16 Watt |
| Robust Coil | R13 16 Watt Robust Nut P/N 173800539 |

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

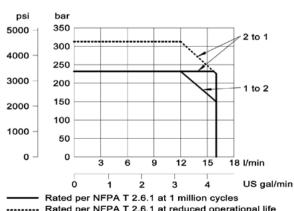
SCHEMATIC



PERFORMANCE CURVES



Operating envelope



----- Rated per NFPA T 2.6.1 at reduced operational life

^{**} See 315 bar pressure rating note on page 10.



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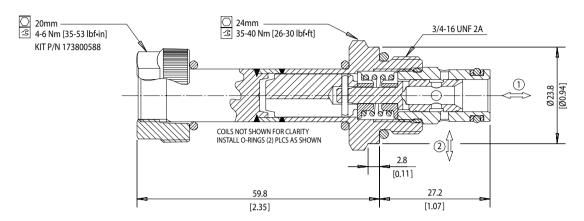
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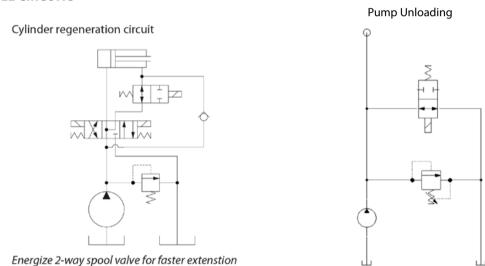
DIMENSIONS

Cross-sectional view

mm [in]



EXAMPLE CIRCUITS



ORDERING INFORMATION

