

# **Solenoid Valves Technical Information**

2 Way, 2 Position Spool SV15-22-01



#### **OPERATION**

Solenoid Valve, Spool Type, 2-Position, 2-Way, Normally Open, Pull-Type, High Flow (15-Size). When de-energized, the SV15-22-01 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. This valve is a direct replacement for EDH 12/NA and uses a metric M33x2 cavity (NCS 12/2) for high flow capability.

# **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 100,000 cycles. In case of inlet from port 2 this value can be increased to 300,000 cycles.



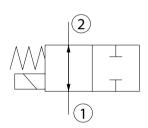
Shown with Standard Coil, DIN Connector

## **SPECIFICATIONS**

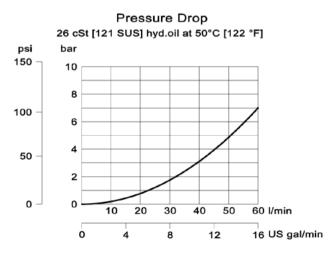
Rated Pressure*	210 bar [3000 psi]**
Maximum Rated Flow at 7 bar	60 l/min
[100 psi]	[16 US gal/min]
Weight including coil	0.65 kg [1.65 lbs]
Cavity	NCS 12/2
Coil	M19 33 Watt
Diode (Optional)	Unidirectional

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

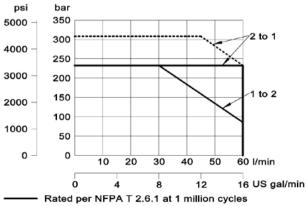
### **SCHEMATIC**



# **PERFORMANCE CURVES**



# Operating envelope



<sup>\*\*</sup> See 315 bar pressure rating note on page 10.



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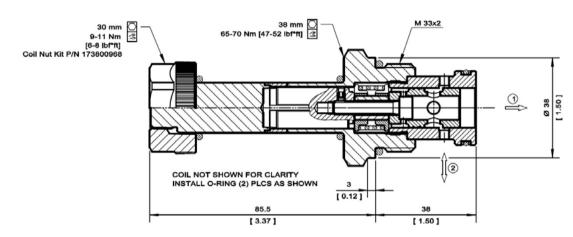
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### **DIMENSIONS**

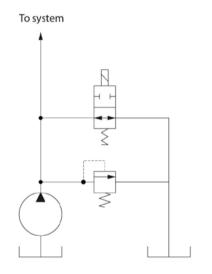
### **Cross-sectional view**

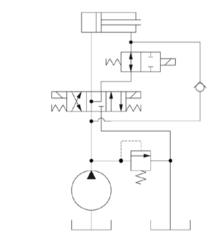
mm [in]



## **EXAMPLE CIRCUITS**

# Cylinder regeneration circuit





Energize 2-way spool valve for faster extenstion

# **ORDERING INFORMATION**

