Solenoid Valves Catalog 2 Way, 2 Position Spool RESPONSIVENESS IN MOTION SV15-22-01



OPERATION

Member of the Danfoss Group

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 guickly 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

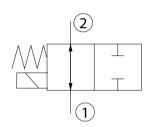
SPECIFICATIONS

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	M19-33W
Diode (Optional)	Unidirectional

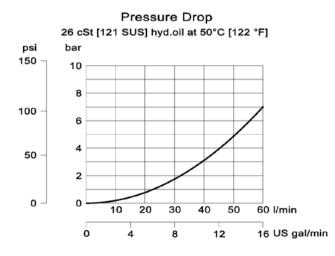
* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

** See 315 bar pressure rating note on page 10.

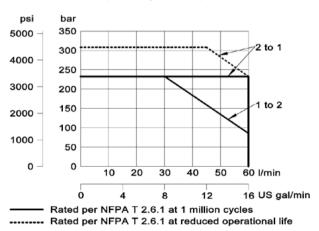
SCHEMATIC



PERFORMANCE CURVES



Operating envelope



SV - Solenoid Valves

SV15-22-01

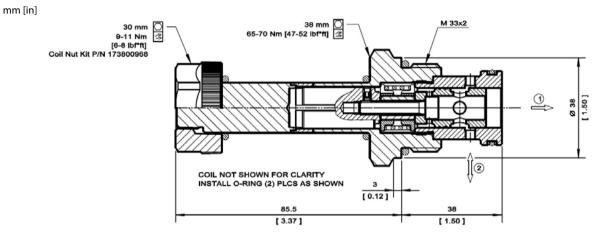
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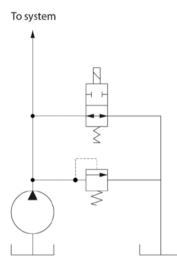


DIMENSIONS

Cross-sectional view



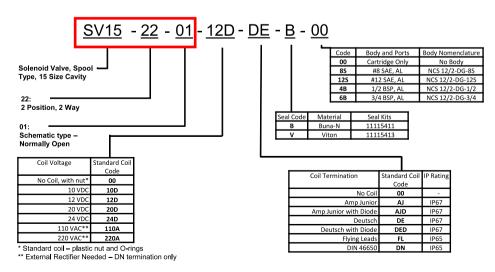
EXAMPLE CIRCUITS



Cylinder regeneration circuit

Energize 2-way spool valve for faster extenstion

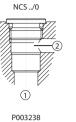
ORDERING INFORMATION

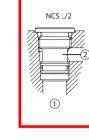


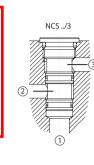


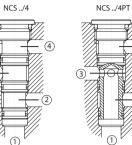
Cartridge Valves Technical Information Accessories Cavity plugs (NCS cavities)

PLUGS FOR NCS CAVITIES

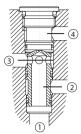


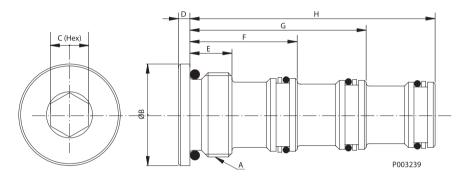






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Dimensions

Туре	Dimensions-mm							Order number for	Weight of plug	
	Α	В	С	D	E	F	G	н	plug complete	complete-kg [lbs.]
NCS 04/0	M18x1.5	22 [0.87]	8	3 [0.12]	10.5 [0.41]	_	_	—	92.00.010.1	0.018 [0.04]
NCS 04/2	M18x1.5	22 [0.87]	8	3 [0.12]	_	24.5 [0.96]	—	_	92.00.009.1	0.035 [0.08]
NCS 04/3	M18x1.5	22 [0.87]	8	3 [0.12]	_	_	39.5 [1.56]	_	92.00.008.1	0.057 [0.13]
NCS 04/4	M18x1.5	22 [0.87]	8	3 [0.12]	_	—	_	54.5 [2.15]	92.00.007.1	0.070 [0.15]
NCS 04/4PT	M18x1.5	22 [0.87]	8	3 [0.12]	_	_	_	54.5 [2.15]	92.00.021.1	0.060 [0.13]
NCS 06/0	M22x1.5	26 [1.02]	10	3 [0.12]	11 [0.43]	—	_	—	92.00.006.1	0.032 [0.07]
NCS 06/2	M22x1.5	26 [1.02]	10	3 [0.12]	_	28 [1.10]	_	_	92.00.004.1	0.060 [0.13]
NCS 06/3	M22x1.5	26 [1.02]	10	3 [0.12]	_	_	46 [1.81]	_	92.00.014.1	0.098 [0.22]
NCS 06/4	M22x1.5	26 [1.02]	10	3 [0.12]	_	_	_	64 [2.52]	92.00.013.1	0.120 [0.26]
NCS 06/4PT	M22x1.5	26 [1.02]	10	3 [0.12]	_	_	_	64 [252]	92.00.020.1	0.100 [0.22]
NCS 12/0	M33x2	38 [1.50]	12	3 [0.12]	15 [0.59]	—	—	—	92.00.018.1	0.117 [0.26]
NCS 12/2	M33x2	38 [1.50]	12	3 [0.12]	—	38 [1.50]	—	—	92.00.017.1	0.200 [0.44]
NCS 12/3	M33x2	38 [1.50]	12	3 [0.12]	—	—	63 [2.48]	—	92.00.016.1	0.280 [0.62]
NCS 12/4	M33x2	38 [1.50]	12	3 [0.12]	_	_	_	88 [3.46]	92.00.015.1	0.370 [0.81]
NCS 12/4PT	M33x2	38 [1.50]	12	3 [0.12]	_	_	_	88 [3.46]	92.00.022.1	0.310 [0.68]