

Solenoid Valves Catalog 2-Way Spool SV08-22-02



OPERATION

Solenoid Valve, Spool Type, 2-Position, 2-Way, Normally Closed, Pull-Type. When de-energized, the SV08-22-02 blocks flow in both directions. When energized, the spool shifts to allow flow in both directions. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.

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.



Shown with Robust Coil, Deutsch Connector

SCHEMATIC



SPECIFICATIONS

JILCHICAHONS					
Rated pressure*	230 bar [3300 psi]**				
Rated flow at 7 bar	14 l/min				
[100 psi]	[4 US gal/min]				
Weight	0.29 kg [0.64 lb]				
Cavity	SDC08-2				
Standard Coil	M13 20 Watt				
Robust Coil	R13 16 Watt				
	Robust Nut P/N 173800539				
	(no coil O-rings needed)				

* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).
** See 315 bar pressure rating note on page 10.

PERFORMANCE CURVES

33 cSt [154 SUS] hyd.oil @ 38°C [100° F] psi bar 116 8 87 6 58 4 29 2 0 0 l/min 0 2 4 6 8 10 12 14 0.5 1.5 3.2 1.1 2.1 2.6 3.7 US gal/min

Pressure drop

Operating envelope





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DIMENSIONS



EXAMPLE CIRCUITS



Two-speed motor circuit



ORDERING INFORMATION

5	SV08 ·	- <u>22</u> -	<u>02</u> - <u>12D</u> - <u>DE</u> ·	<u>B-0</u>	<u>0</u> г	Code		and Ports	Body Nomenclature
					. 1	00		dge Only	No Body
					1 1	4S		SAE, AL	CP08-2-4S
						6S		SAE, AL	CP08-2-6S
Solenoid Valve, 08						S6S	#6 SA	AE, Steel	CP08-2-S6S
Size Cavity						DG2B	1/4	BSP, AL	SDC08-2-DG2B
						DG3B	3/8	BSP, AL	SDC08-2-DG3B
22:						S3B	3/8 B	SP, Steel	CP08-2-S3B
2 Position, 2 Way, Sp	ool Type						Seal Code	Material	Seal Kits
							B	Buna-N	354003119
03:			_				V	Viton	354003619
Schematic: Normally						-	v	VILOII	334003019
Closed, Pull Type			Coil Termination	Standard C	oil IP Rating	Robust Coil	IP Rating	1	
Coil Voltage 5	Standard Coil	Robust Coil	Contermination	Code	.011	Code			
	Code	Code	No Co			00		-	
No Coil, with nut*	00	R00	Amp Junio		IP67		-		
10 VDC	10D	R10D	Amp Junior with Diod	-	IP67			-	
12 VDC	12D	R12D	AMP SuperSeal 1.		IP67	AS	IP69K	-	
20 VDC	20D	R20D	AMP SuperSeal with Diod		IP67	ASDB	IP69K		
24 VDC	24D	R24D	Deutsc		IP67	DE	IP69K		
110 VAC**	110A		Deutsch with Diod		IP67	DEDB	IP69K	-	
220 VAC**	220A	-	Flying Lead		IP67	FL	IP69K		
			Flying Leads with Diode		IP65	FLDB	IP69K		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				FLDB	IP09K				
5111303			IP65	- M3	-				
		Metri-Pack 150 Type		-		IP69K			
Diri oniy - external it	sound needed	,	Metri-Pack 150 with Diode	-	-	M3DB	IP69K	1	