



Solenoid Valves Technical Information

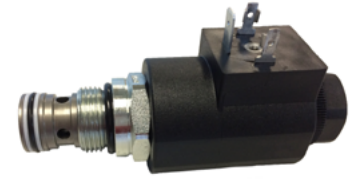
2-Way Poppet

EVK 06/C5



OPERATION

This is a normally-closed, double-blocking poppet-type, 2 position, Metric NCS 06-size solenoid valve. When de-energized, the EVK 06/C5 blocks flow in both directions. When energized, the valve's poppet lifts and allows flow from port 2 to port 1, and from port 1 to port 2. This valve comes standard with a push-pin type manual override.



Shown with Standard Coil,
Deutsch Connector

APPLICATIONS

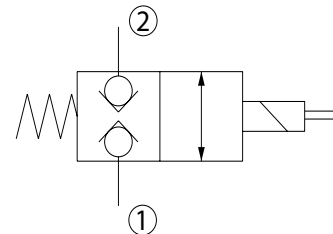
The EVK 06/C5 is designed for circuits requiring very low leakage can be used to control the advance and retract of single acting and double acting cylinders. The double blocking state can be used to lock pressure in a group of cylinders.

SPECIFICATIONS

Rated pressure*	210 bar [3000 psi]
Rated flow	40 l/min [10.6 US gal/min]
Weight	0.43 kg [0.95 lb]
Cavity	NCS06/2
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt Robust Nut P/N 173804910 (no coil O-rings needed)

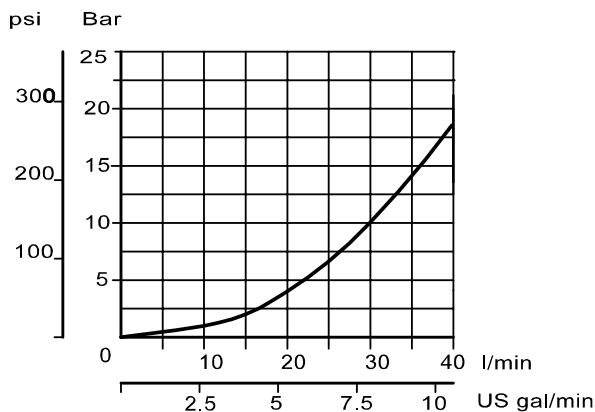
* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC

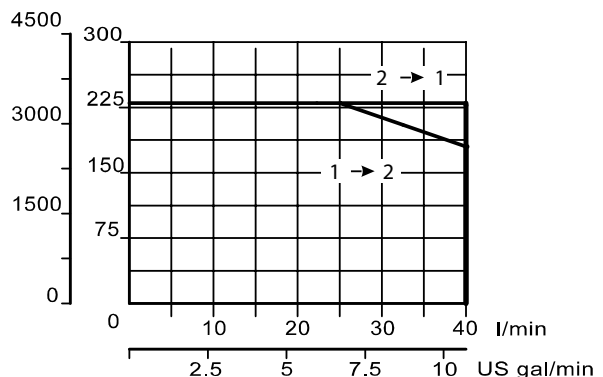


PERFORMANCE CURVES

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



Operating envelope
26 cSt [121 SUS] hyd.oil at 50°C [122 °F]





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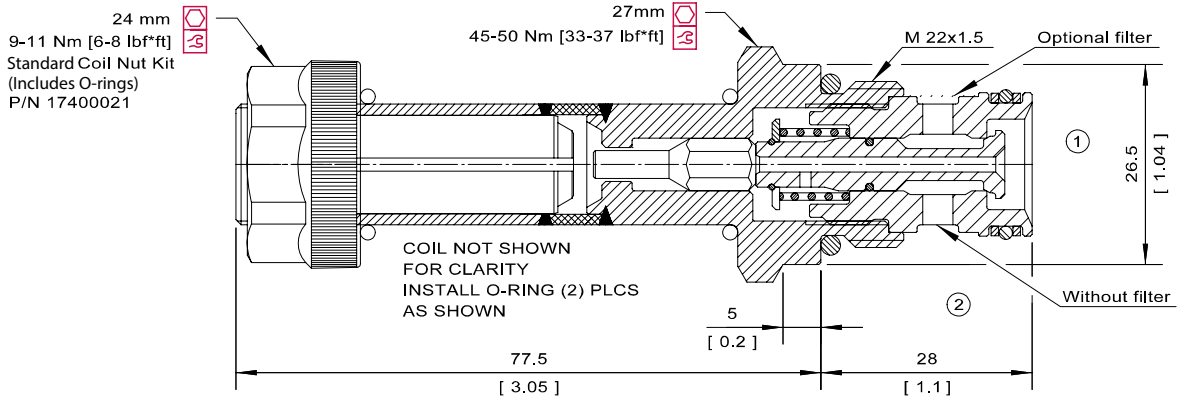
EVK 06/C5



DIMENSIONS

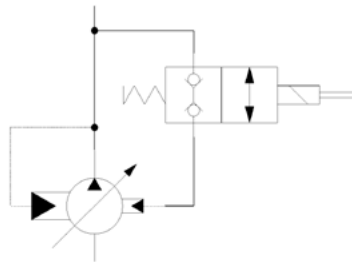
mm [in]

Cross-sectional view

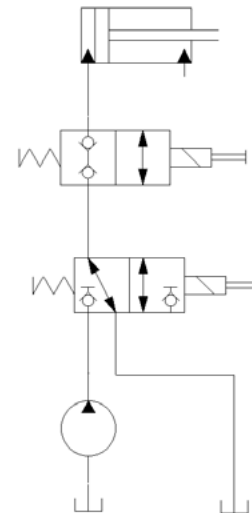


EXAMPLE CIRCUITS

To Circuit On Off for Pump



Single Acting Cylinder



ORDERING INFORMATION

EVK 06/C5 - F - 12D - DE - PB - 00 - B

Solenoid Valve, Double Blocking, Metric NCS 06-size Cavity, 2-Position, 2-Way

Filter: No Filter Omit 300 µm F

Coil Voltage	Standard Coil Code	Robust Coil Code
No Coil, with nut*	00	R00
10 VDC	10D	R10D
12 VDC	12D	R12D
20 VDC	20D	R20D
24 VDC	24D	R24D
110 VAC**	110A	-
220 VAC**	220A	-

* Standard coil – plastic nut and O-rings; R-coil – steel nut P/N 173804910 (no coil O-rings needed)

** DIN only - external rectifier needed

Coil Termination	Standard Coil Code	IP Rating	Robust Coil Code	IP Rating
No Coil	00	-	00	-
Amp Junior	AJ	IP67	-	-
Amp Junior with Diode	AJD	IP67	-	-
AMP SuperSeal 1.5	AS	IP67	AS	IP69K
AMP SuperSeal with Diode	ASD	IP67	ASDB	IP69K
Deutsch	DE	IP67	DE	IP69K
Deutsch with Diode	DED	IP67	DEDB	IP69K
Flying Leads	FL	IP65	FL	IP69K
Flying Leads with Diode	FLD	IP65	FLDB	IP69K
DIN 43650	DN	IP65	-	-
Metri-Pack 150 Type 2	-	-	M3	IP69K
Metri-Pack 150 with Diode	-	-	M3DB	IP69K

Seal Code	Material	Seal Kits
B	Buna-N	230000440
V	Viton	230000710

Code	Body and Ports	Body Nomenclature
00	Cartridge Only	No Body
DG6S	#6 SAE, AL	NCS06/2-DG-6S
DG8S	#8 SAE, AL	NCS06/2-DG-8S
DG3/8	3/8 BSP, AL	NCS06/2-DG-3/8
DG1/2	1/2 BSP, AL	NCS06/2-DG-1/2

Other housings available. Please consult factory for details.

Code	Manual Override
Omit	Push Pin (Standard)
PB	Push Button
SPS	Screw Style (Push-Type Valve)
OPS	Push Pin Nut for Protection & Actuation
PAT	Push and Twist