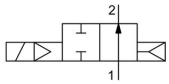
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2/2-Way solenoid valve - combined-operated
Series SL049





de-energized open

Design type	2/2-way solenoid valve with diaphragm seal, combined-operated, normally open
Connection	G3/8"...G3/4" according to ISO228/1
Materials	Body Brass, Internal parts Brass and stainless steel similar to 1.4104, Seals NBR or FKM
Mounting type	Installation in rigid piping system
Mounting position	preferably with upright electrical part
Application range	gaseous and liquid media that do not attack the materials used
Viscosity	max. 12mm^2/s (cst)
Switching time	depending on operating pressure and medium
Medium temperature	depending on the sealing material and Solenoid coil
Ambient temperature	see table "Solenoid coil"

Electrical data:

Coil type	Type BDA, Connector width 32mm (Standard coil) Type BDV, Connector width 32mm (Coil for humid environment)
Electrical connection	connector according to EN175301-803 form A (see separate data sheet)
Voltage type	AC and DC voltage
Standard voltage	230V/50-60Hz, 24V/50-60Hz, 24VDC
Special voltages	12...380V/50Hz or 60Hz, 12...220VDC
Permissible voltage fluctuation	AC +10%/-15%, DC +10%/-5%
Power consumption	see table "Power consumption of the solenoid coils"
Duty cycle	100% Duty cycle (continuous operation)
Degree of protection	IP65 according to EN 60529 with properly mounted device connector (protection against dust ingress and water jets)
Application note	When ordering, please specify voltage and type of current. We recommend always installing a strainer upstream to prevent malfunctions in the event of contamination of the medium. These valves can also be used for rough vacuum applications.
Special version	ATEX II 3G nA IIC T3 Gc / II 3D tc IIIC T200°C Dc IP65

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Type code

		SL049	-	38	-	V	-	A	S	01	-	01	
	Connection	G3/8"		18									
		G1/2"		12									
		G3/4"		34									
	Seal	Standard seal NBR - Leave blank											
		FKM				V							
	Coil	without coil - Leave blank											
		BDA Standard coil - Approval CE						A					
		BDV Coil for humid environment - Approval CE-CSA-UL-VDE						C					
	Device connector	without device connector - Leave blank											
		Standard							S				
		with built-in yellow LED and VDR							L				
		with moulded PVC cable (2 m)							M				
	Voltage	220-230V/50-60Hz								01			
		230V/50-240V/60Hz								02			
		24VDC								03			
		24V/50-60Hz								04			
		12VDC								05			
		48VDC								06			
		110VDC								07			
		220VDC								08			
		42V/50Hz								10			
		48V/50Hz								11			
		110V/50-60Hz								13			
		110V/50-120V/60Hz								14			
		115V/60Hz								15			
		380V/50-60Hz								16			
	Special version	described in item text										01	

Applications of the individual sealing materials

Material	Medium temperature	Application examples
NBR	-10...90°C	Air, Water, neutral gases and liquids
FKM	-10...140°C	Oils, Gasoline, Diesel

Solenoid coils

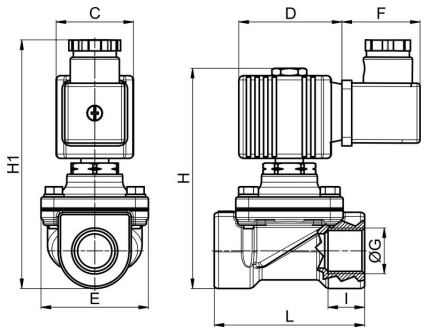
Type	Degree of protection	Insert	Ambient temperature	Approvals
BDA	IP65	Medium temperature up to max. 120°C	-10...+40°C	CE
BDV	IP65	Medium temperature up to max. 180°C, high humidity	-20...+60°C	CE-CSA-UL-VDE

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Power consumption of the solenoid coils

Voltage	Tightening torque (Alternating current) VA	Holding force (Alternating current) VA	Holding force (Direct current) operating temperature W	Type
24V/50-60Hz	25	14,5	-	BDA08024DS
42V/50Hz	25	14,5	-	BDA08042AS
48V/50Hz	25	14,5	-	BDA08048AS
110V/50-60Hz	25	14,5	-	BDA08110DS
115V/60Hz	25	14,5	-	BDA08115BS
220-230V/50-60Hz	25	14,5	-	BDA08223DS
380V/50-60Hz	25	14,5	-	BDA08380DS
12VDC	-	-	8	BDA08012CS
24VDC	-	-	8	BDA08024CS
110VDC	-	-	8	BDA08110CS
24V/50-60Hz	25	17	-	BDV08024DY
230V/50Hz 240V/60Hz	25	16	-	BDV08230AY
110V/50Hz 120V/60Hz	25	15	-	BDV08110AY
24VDC	-	-	11	BDV08024CY

Dimensions



Connection G	Nominal size DN[mm]	Pressure range [bar] AC/DC	C	D	E	F	H	H1	I	L	Kv value [m^3/h Water]	Weight [approx. kg]	Coil	Type
G3/8"	11	0...10	30	42	50	36	101	114	12	56	1,2	0,7	BD.	SL049-38
G1/2"	16	0...10	30	42	50	36	112	125	14	70	2,4	1,1	BD.	SL049-12
G3/4"	16	0...10	30	42	50	36	112	125	16	70	2,4	0,8	BD.	SL049-34

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