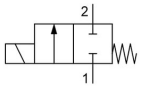
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2/2-Way solenoid valve direct-acting
Series SL001





de-energized closed

Design type	2/2-way solenoid valve with elastic seal, direct-acting, normally closed
Connection	G1/8"...G1/4" according to ISO228/1
Materials	Body and guide tube Brass, Internal parts Stainless steel similar to 1.4104, Seal NBR (Perbunan) or FKM
Mounting type	Installation in rigid piping system or via mounting thread
Mounting position	any
Application range	gaseous and liquid media that do not attack the materials used
Viscosity	max. 37mm^2/s (cst)
Switching time	10...30ms
Switching frequency	max. 300/min
Medium temperature	depending on the sealing material and Solenoid coil
Ambient temperature	see table "Solenoid coils"

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)
Standard voltage	230V/50-60Hz, 24V/50-60Hz, 24VDC
Special voltages	12...380V/50Hz or 60Hz, 12...110VDC
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 so that no malfunctions occur if the medium is contaminated. These valves can also be used for rough vacuum. The maximum rated housing pressure can be 40bar. The maximum switchable pressure is the differential pressure between valve inlet and outlet. For DC voltage, the specified differential pressure values apply for a medium temperature of max. 80°C and an ambient temperature of 40°C. At higher media temperatures, the permissible differential pressure decreases by 0.4% per °Celsius.

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Type code

		SL001 - 18 - 1,7 - V - A S 01 - 01
Connection	G1/8"	18
	G1/4"	14
Nominal size	1,7mm	1,7
	2,2mm	2,2
	2,8mm	2,8
	4mm	4
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
	110VDC	07
	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	01,02

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	Gasoline, Diesel, Air, Oils, Water, neutral gases and liquids

Solenoid coils

Type	Degree of protection	Application range	Ambient temperature	Approvals
BDA	IP65	Medium temperature up to max. 120°C	-10...+40°C	CE
BDV	IP65	Medium temperature up to max. 160°C, high humidity	-20...+60°C	CE-CSA-UL-VDE

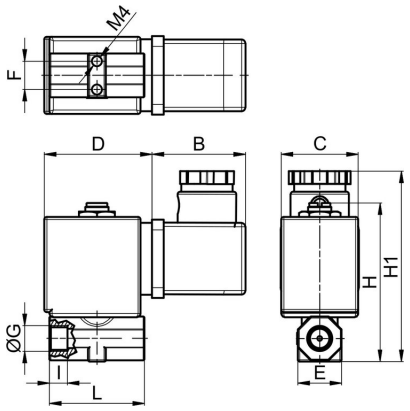
Power consumption of the solenoid coils

Voltage	Tightening torque (Alternating current) VA	Holding force (Alternating current) VA	Holding force (Direct current) operating temperature W	Type
12VDC	-	-	8	BDA08012CS
24V/50-60Hz	25	14,5	-	BDA08024DS
24VDC	-	-	8	BDA08024CS
42V/50Hz	25	14,5	-	BDA08042AS
48V/50Hz	25	14,5	-	BDA08048AS
110VDC	-	-	8	BDA08110CS
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
24VDC	-	-	11	BDV08024CY
24V/50-60Hz	25	17	-	BDV08024DY
110V/50Hz 120V/60Hz	25	15	-	BDV080110AY
230V/50Hz 240V/60Hz	25	16	-	BDV08230AY

Permissible differential pressures in bar and Kv value

Connection G	Nominal size DN[mm]	AC	DC	Kv value [m^3/h]	Type
1/8"	1,7	0 - 30	0 - 20	0,09	SL001-18-1,7
1/8"	2,2	0 - 20	0 - 15	0,13	SL001-18-2,2
1/8"	2,8	0 - 14	0 - 10	0,21	SL001-18-2,8
1/8"	4,0	0 - 6	0 - 3	0,30	SL001-18-4
1/4"	1,7	0 - 30	0 - 20	0,09	SL001-14-1,7
1/4"	2,2	0 - 20	0 - 15	0,13	SL001-14-2,2
1/4"	2,8	0 - 14	0 - 10	0,21	SL001-14-2,8
1/4"	4,0	0 - 6	0 - 3	0,30	SL001-14-4

Dimensions



Connection G	B	C	D	E	F	H	H1	L	I	Weight [approx. kg]	Type
G1/8"	36	30	42	17	11	63	75	37	7	0,2	SL001-18
G1/4"	36	30	42	17	11	63	75	37	7	0,2	SL001-14

Illustrations non-binding
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