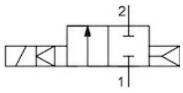
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2/2-Way solenoid valve - pilot-operated
Series SL200





de-energized closed

Design type	2/2-way solenoid valve with diaphragm seal, pilot-operated, de-energized closed
Connection	G3/8"...G1/2" according to ISO228/1
Materials	Body Brass, Guide tube Stainless steel one-piece, Internal parts Brass and Stainless steel similar to 1.4104, Diaphragm material NBR, EPDM or FKM
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"
Mounting type	Installation in rigid piping system
Mounting position	any

Electrical data:

Coil type	Type BDA, Connector width 32mm (Standard coil) Type BDV, Connector width 32mm (Coil for humid environment) Type GDH/GDV, Connector width 32mm (Coil for higher pressures, 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 correctly 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 if the minimum differential pressure of 0.1 bar is present.

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Type code

		SL200	-	38	-	V	-	A	S	01	-	01
Type		SL200										
Connection	G3/8"			38								
	G1/2"			12								
Seal	Standard seal NBR - Leave blank											
	EPDM					E						
	FKM					V						
Coil	without coil - Leave blank											
	BDA Standard coil - Approval CE							A				
	BDV Coil for humid environment - Approval CE-CSA-UL-VDE							C				
	GDH Coil for higher pressures - Coil for humid environment - Approval CE							D				
	GDV Coil for higher pressures - Coil for humid environment - Approval CE-CSA-UL-VDE							E				
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		
	380V/50-60Hz									16		
	220-240V/50-60Hz									20		
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
EPDM	-10...140°C	Hot water, Steam, Oxygen
FKM	-10...140°C	Oils, Gasoline, Diesel

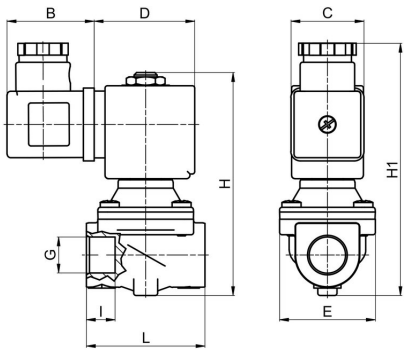
Solenoid coils

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
GDV......S	IP65	Medium temperature up to max. 180°C, high humidity	-20...+60°C	CE
GDV......Y	IP65	Medium temperature up to max. 180°C, high humidity	-20...+60°C	CE-CSA-UL-VDE
GDH	IP65	Medium temperature up to max. 180°C, high humidity	-20...+40°C	CE

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	-	-	11	BDA08012CS
24V/50-60Hz	25	14,5	-	BDA08024DS
24VDC	-	-	11	BDA08024CS
42V/50Hz	25	14,5	-	BDA08042AS
48V/50Hz	25	14,5	-	BDA08048AS
110V/50-60Hz	25	14,5	-	BDA08110DS
110VDC	-	-	8	BDA08110CS
220-230V/50-60Hz	25	14,5	-	BDA08223DS
380V/50-60Hz	25	14,5	-	BDA08380DS
24V/50-60Hz	38,5	17	-	BDV08024DY
24VDC	-	-	11	BDV08024CY
110V/50Hz 120V/60Hz	36,1	15	-	BDV08110AY
230V/50Hz 240V/60Hz	25	16	-	BDV08230AY
12VDC	-	-	23	GDH14012CS
24V/50-60Hz	59,5	27	-	GDV14024DY
24VDC	-	-	14	GDV14024CY
48VDC	-	-	14	GDH14048CS
110V/50Hz 120V/60Hz	57,5	31	-	GDV14110AY
230V/50Hz 240V/60Hz	62	31	-	GDV14230AY
220VDC	-	-	14	GDV14220CS

Dimensions



Connection G	Nominal size DN[mm]	Pressure range [bar]		B	C	D	E	H	H1	I	L	Kv value [m³/h Water]	Weight [approx. kg]	Coil	Type
		AC	DC												
G3/8"	12	0,1...20	0,1...10	36	30	42	40	94,5	106	10	50	2,1	0,50	BD.	SL200-38
G3/8"	12	0,1...20	0,1...20	36	52	55	40	94,5	106	10	50	2,1	0,75	GD.	SL200-38
G1/2"	12	0,1...20	0,1...10	36	30	42	40	94,5	106	10	50	2,7	0,50	BD.	SL200-12
G1/2"	12	0,1...20	0,1...20	36	52	55	40	94,5	106	10	50	2,7	0,75	GD.	SL200-12

Illustrations non-binding
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