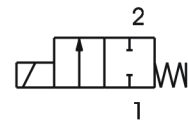


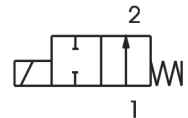
2/2 way solenoid valve direct acting series SL100 (NC), SL101 (NO)



normally closed NC



normally open NO



SPECIFICATION	
general	
type of construction	2/2-poppet valve, normally closed NC or normally open NO, coil 360° rotatable, stainless steel nozzle with wider contact face for lower surface pressure
operator	solenoid
ports	G1/8 – G1/4
ambient temperature	-20°C to +50°C, higher allowed ambient temperatures on request
fluid temperature	dependent on sealing material and coil
viscosity	max. 37 mm²/s (cst) or 5° E
material	body brass, inner parts brass and stainless steel, sealing - see type selection
mounting	installation into fixed piping systems or by use of 2 threads on the bottom side
installation	in any position, preferable vertical fixed solenoid coil
unit of supply	without connector
electrical data	
voltage	DC voltage or AC voltage
standard voltage	24V DC, 24V AC, 230V AC
special voltage on request	6V-207V DC, 12V-240V, 50Hz or 60Hz
acceptable voltage tolerance	+/- 10%
power consumption	see specifications at solenoid coils
coil type	temperature class F (155°C), winding class H (180°C), coil E3 temperature class H
duty cycle	100% ED (DB), continuous operation
protection class	IP65 according DIN EN 60529 (DIN 40050) with correctly mounted connector
pneumatic – hydraulic	
flow medium	all liquids and gases, which don't attack the used material
max. body housing pressure	PN 100 (bar)
response time	depending on operating pressure and fluid
special equipment on request	stainless steel AISI303 in place of brass, coil type with cable, bright nickel-plated or chemical nickel-plated, coils for temperature class H (180°C), higher operating pressure, coil EExmII T5

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normally closed										
NW DN (mm)	ports	maximum differential pressure in bar **								kv-value (m³/h)
		coil E1AA		coil E2AA		coil E3AE		coil F1AA		
		~ (50Hz)	= (DC)	~ (50Hz)	= (DC)	~ (50Hz)	= (DC)	~ (50Hz)	= (DC)	
1,5	G1/8	50	70	80	100	100	100			0,08
	G1/4									
2,0	G1/8	30	30	55	70	80	90			0,13
	G1/4									
2,5	G1/8	20	20	30	35	50	60	60	80	0,19
	G1/4									
3,0	G1/8	10	10	18	25	35	35	50	60	0,25
	G1/4									
3,5	G1/8			14	16	20	25	28	36	0,30
	G1/4									
4,0	G1/8			12	12	16	16	20	25	0,37
	G1/4									

** At DC voltage all pressure specifications apply to a fluid temperature up to 80 °C. At higher fluid temperatures, the maximum differential pressure will be reduced by 0,4% / °C. All specifications refer to fluids with a maximum viscosity of 37 cst. (5°E). Higher viscosities cause extended response time and need a special specification of the valve.

sealing material	fluid temperature	applicable for	standard voltage
NBR (Perbunan)	max. 80°C	neutral gases and liquids	24V = DC
EPDM	max. 120°C	hot water, steam, not for oil and grease	24V ~ (50Hz)
PTFE***	max. 150°C	acids and alkaline solution, steam	230V ~ (50Hz)
FPM	max. 130°C	oil, petrol, oxygen, acids and bases	

*** Please keep in mind valves with PTFE seat seal have a leakage up to 1,35cm³/min, especially for low pressures. If the pressure raises the leakage is sinking.

coil power consumption at 20 °C, protection class, interface					
coil type	inrush power ~ (50Hz) VA	rated power ~ (50Hz) VA	power*** = (DC) (W)	protection class with/without connector	interface
E1AA*	32	14	12	IP65 / IP00	Connector DIN EN 175301-803 (DIN 43650) type A
E2AA*	42	17	17	IP65 / IP00	Connector DIN EN 175301-803 (DIN 43650) type A
E3AE*	70	30	27	IP65 / IP00	Connector DIN EN 175301-803 (DIN 43650) type A
F1AA*	70	30	27	IP65 / IP00	Connector DIN EN 175301-803 (DIN 43650) type A

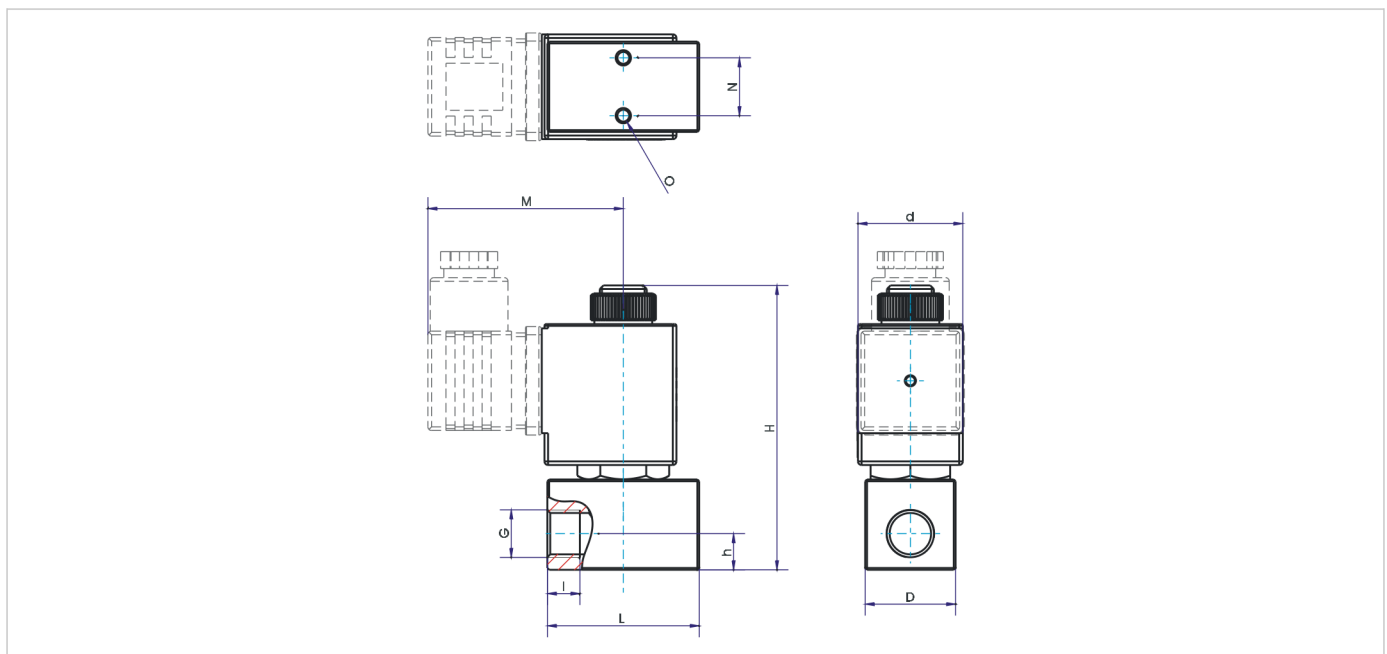
*...For fluid temperatures higher than 120°C, a temperature class H coil is required.

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normally open			
NW DN (mm)	connection	maximum differential pressure in bar **	kv-value (m³/h)
1,5	G1/8	85	0,08
	G1/4		
2,0	G1/8	45	0,13
	G1/4		
2,5	G1/8	30	0,19
	G1/4		
3,0	G1/8	25	0,25
	G1/4		
3,5	G1/8	18	0,30
	G1/4		
4,0	G1/8	15	0,37
	G1/4		

** Higher differential pressure on request.



Dimension table in mm, weight approx. in g

G	coil	N	O	M	H		d	h	I	L	D	weight (approx. g)	
					SL100	SL101						SL100	SL101
G 1/8	E1	16	M4	55.1	79	86	30	10	7.5	42	25	370	390
	E2			57			35					436	456
	E3			56			36					456	476
	EX			54	90	93	38					710	730
	F1			57			38					526	516
G 1/4	E1	16	M4	55.1	79	86	30	10	9	42	25	360	380
	E2			57			35					426	446
	E3			56			36					446	466
	EX			54	90	93	38					700	720
	F1			57			38					516	506