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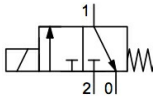
3/2-Way solenoid valve - direct-acting
Series 31L

Connection "0"



de-energized closed

Design type	3/2-way solenoid valve with elastic seal, direct-acting, normally closed (de-energized closed)
Connection	G1/4" according to ISO228/1
Materials	Body and Guide tube Stainless steel 1.4401, Internal parts Stainless steel similar 1.4104, Seal FKM, Gold-plated shading ring
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. 53mm^2/s (cst)
Switching time	10...30ms
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)
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.

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Type code

		31L	2	A	1	V	30	-	BDA	-	230V/50-60Hz
	Connection	G1/4"	2								
	Nominal size Guide tube	2,5mm		A							
	Seal	FKM				V					
	Nominal size	3,0mm					30				
		BDA Standard coil - Approval CE							BDA		
	Coil	BDV Coil for humid environment - Approval CE-CSA-UL-VDE							BDV		
		230V/50-60Hz									230V/50-60Hz
		24V/50-60Hz									24V/50-60Hz
		24VDC									24VDC
		12...380V/50Hz or 60Hz									
	Voltage	12...220VDC									

Applications of the individual sealing materials

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

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

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
220-230V/50-60Hz	25	14,5	-	BDA08223DS
24V/50-60Hz	25	14,5	-	BDA08024DS
24VDC	-	-	8	BDA08024CS
380V/50-60Hz	25	14,5	-	BDA08380DS
115V/60Hz	25	14,5	-	BDA08115BS
110V/50-60Hz	25	14,5	-	BDA08110DS
48V/50Hz	25	14,5	-	BDA08048AS
42V/50Hz	25	14,5	-	BDA08042AS
110VDC	-	-	8	BDA08110CS
12VDC	-	-	8	BDA08012CS
230V/50Hz 240V/60Hz	25	16	-	BDV08230AY
24V/50-60Hz	25	17	-	BDV08024DY
24VDC	-	-	11	BDV08024CY
110V/50Hz 120V/60Hz	25	15	-	BDV08110AY

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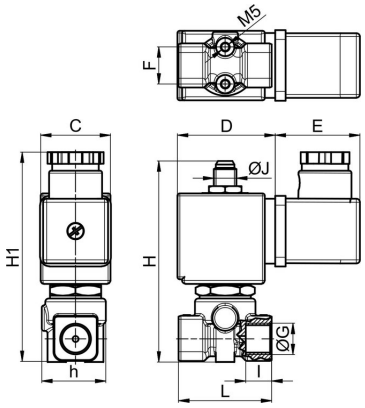
Dimensions



Connection G	Nominal size DN[mm]	C	D	E	F	h	H	H1	I	J Connection "0"	L	Pressure range [bar]		Kv value [m^3/h Water]	Weight [approx. kg]	Coil	Type
												AC	DC				
G1/4"	3	30	42	36	16	28	88	91	7	G1/8"	39	0-5	0-5	0,24	0,32	BD.	31L2A1V30

Illustrations non-binding
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