

2/2-way solenoid valve

2/2-way type

Art. No. 148590

Type No. MVB.MS.230V.G1.0,5-12B



Exemplary illustration

The standard series in the versions

- directly operated
- pilot operated

Cable plug in acc. with ISO 4400

Medium temperature max. 80 °C

Technical data

Housing	Brass
Valve seat	Brass
Internal parts	Stainless steel / Brass
Protection IP	IP 65
Type	4
Thread	G 1 IT
Operating pressure	0.5 - 12 bar
Sealant	NBR
Electrical connection	ISO 4400 / EN 175301-803 industrial standard type A
Medium temperature	-10 to 80 °C
Ambient temperature	-10 to 60 °C
Standard thread	ISO 228-1
Opening	20.0 mm
A	122.4 mm
B	87.9 mm
C	115.0 mm

Commercial data

Customs tariff number	84812090
Country of origin	TR
eCl@ss 5.1.4	27220601
eCl@ss 9.0	27220601
UNSPSC_Code_v190501	40141605
UNSPSC_CodeDesc_v190501	Solenoid valves

Material informations

REACH SVHC1 substance name	lead
CAS no. SVHC 1	7439-92-1
RoHS materials notice	RoHS compliant
REACH Info	contains SVHC substance

General Purpose Solenoid Valves

S1031 Series (G3/8", G1/2", G3/4", G1", G1 1/4", G1 1/2", G2)

GENERAL FEATURES

- Wide pressure range, a flow rate and orifice options.
- Solenoid valves are used with the filter.
- Solenoid valves can be mounted in any position without affecting its operation.
- Coil to be used in a vertical position.

ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100
 Coil Insulation Class : H (180°C)
 Coil Impregnation : Polyester Fiber Glass
 Ambient Temperature : -10°C, +60°C
 Protection Degree : IP65 (ISO 60529) On request; IP68
 Electric Plug Connection : DIN 46340 3- Poles Connector(DIN43650)
 Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
 Electrical Safety : IEC 335
 Standard Voltages : AC 12V 15VA, 24V 15VA, 48V, 15VA, 110V 15VA, 230V 15VA, DC 12V 18W, 24V 18W, 48V 18W, 110V 18W

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -18%, +10%

Frequency : 50 Hz (60 Hz..)

On request; Connector with LED, PWM Socket

Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body : Brass
 Internal Parts : Stainless Steel and Brass
 Sealing : NBR
 Shading Ring : Copper (EN 12735-1)
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel

OPTIONS

- Female connection: BSP; On request NPT
 • On request CR-Ni plated, PTFE coated done.
 • On request Atex (exproof) coil.

TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cSt or mm2/s)
 Response Time : Opening Time : 400-1600 ms
 Closing Time : 1000-2000 ms

SEALS FEATURES

NBR : -10°C...+80°C
 EPDM : -10°C...+130°C
 VITON : -10°C...+160°C
 PTFE : -10°C...+160°C
 RUBY : -10°C...+160°C



NORMALLY OPEN

2/2 WAY

PILOT OPERATED

ΔP=0,5



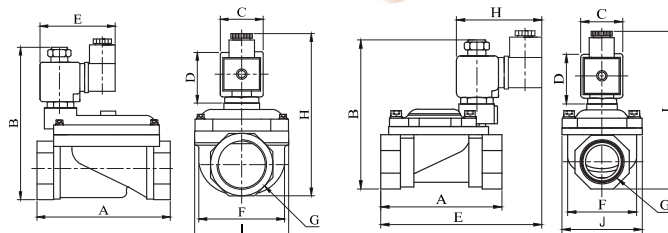
WATER



AIR



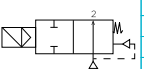
GAS



Dimensions (mm)								
G	A	B	C	D	E	F	I	H
1 1/4"	106.5	124.5	32	45	76	66	72	137.3
1 1/2"	128.5	137	32	45	76	84	95	149.8
2"	149	149	32	45	76	97	109.7	169.8

Dimensions (mm)								
G	A	B	C	D	E	F	J	H
3/8"	69	97	32	45	106.5	38	52	76
1/2"	69	97	32	45	106.5	38	52	76
3/4"	81.3	107.5	32	45	115.8	42.1	52	76
1	87.9	115	32	45	122.4	51.5	60	76

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
C40012VDC18W	12VDC 18W	COLD	19.56	19.56	1.63	20
		HOT	14.52	14.52	1.21	106
C40024VDC18W	24VDC 18W	COLD	20.88	20.88	0.87	25
		HOT	14.64	14.64	0.61	116
C40110VDC18W	110VDC 18W	COLD	19.96	19.96	0.18	23
		HOT	13.56	13.56	0.123	115
C40012VAC15VA	12VAC 15VA	COLD	23.81	16.43	1.3	25
		HOT	-	15.86	1.262	79
C40024VAC15VA	24VAC 15VA	COLD	25.82	15.02	0.62	22
		HOT	-	13.91	0.57	81
C40110VAC15VA	110VAC 15VA	COLD	30.65	15.17	0.137	24
		HOT	-	13.96	0.126	80
C40230VAC15VA	230VAC 15VA	COLD	31.4	15.64	0.068	25
		HOT	-	14.41	0.063	80
C40230VAC24VA	230VAC 24VA	SOĞUK	45.1	23.92	0.0154	23
		HOT	-	21.62	0.0154	100

Solenoid Valve Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max	Kv	Fluid Temperature °C	Seal	Weight
	S1031	G	mm	Bar	Bar	l/min	min	max
	S1031.02	3/8"	12.5	0.35	12	48	-10	80
	S1031.03	1/2"	12.5	0.35	12	48	-10	80
	S1031.04	3/4"	20	0.5	12	120	-10	80
	S1031.05	1"	25	0.5	12	170	-10	80
	S1031.06	1 1/4"	30	0.5	12	250	-10	80
	S1031.07	1 1/2"	39	0.5	12	370	-10	80
	S1031.08	2"	46	0.5	12	450	-10	80