

2/2-Wege-Magnetventil

2/2-Wege-Ausführung

Artikel Nr. 148588

Typen Nr. MVB.MS.230V.G34.0,5-12B



Beispielhafte Darstellung

Die Standardbaureihe in den Ausführungen

- direktgesteuert

- vorgesteuert

Gerätesteckdose nach ISO 4400

Mediumtemperatur max. 80 °C

Technische Informationen

Gehäuse	Messing
Ventilsitz	Messing
Innenteile	Edelstahl / Messing
Schutzart	IP 65
Bauform	4
Gewinde	G 3/4 IG
Spannung	230 V AC
Betriebsdruck	0,5 - 12 bar
Dichtmaterial	NBR
Elektrischer Anschluss	ISO 4400 / EN 175301-803 Bauform A
Mediumtemperatur	-10 bis 80 °C
Umgebungstemperatur	-10 bis 60 °C
Gewindenorm	DIN EN ISO 228-1
Öffnung	20 mm
A	115,8 mm
B	81,3 mm
C	107,5 mm

Kaufmännische Daten

Zolltarifnummer	84812090
Ursprungsland	TR
eCl@ss 5.1.4	27220601
eCl@ss 9.0	27220601
UNSPSC_Code_v190501	40141605
UNSPSC_CodeDesc_v190501	Solenoid valves

Material Informationen

REACH SVHC1 Stoff Name	lead
CAS-Nr. SVHC 1	7439-92-1
RoHS Werkstoff-Hinweis	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 (-37°CST 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



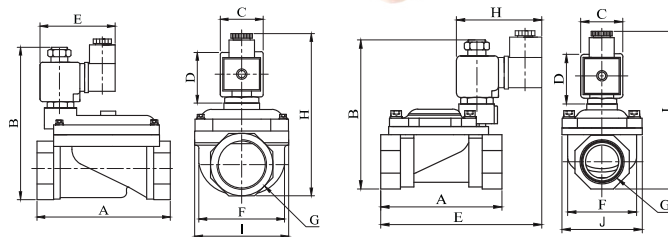
WATER



AIR



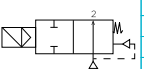
GAS



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	I	
3/8"	69	97	32	45	106.5	38	52	76	112	
1/2"	69	97	32	45	106.5	38	52	76	112	
3/4"	81.3	107.5	32	45	115.8	42.1	52	76	121	
1	87.9	115	32	45	122.4	51.5	60	76	127.5	

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

General Purpose Solenoid Valves S1030 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)(IEC 85)
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, Brass
Sealing : NBR (On request; EPDM, VITON)
Shading Ring : Copper (EN 12735-1)
Seats,Core Tube,Springs : Stainless Steel, Brass

OPTIONS

Female connection: BSP; On request NPT

- On request CR-Ni plated, PTFE coated done.
- On request Atex (explosion proof) 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 CLOSED

2 WAY

PILOT OPERATED

ΔP=0.5



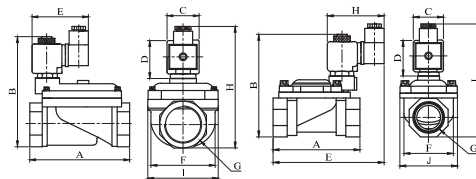
WATER



AIR



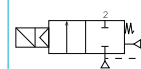
GAS



Dimensions (mm)

G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	76	112
1/2"	69	97	32	45	106.5	40	52	76	112
3/4"	81.3	107.9	32	45	115.8	42.1	52	76	121
1"	87.9	115.3	32	45	122.4	51.5	60.9	76	127.5
1 1/4"	141	143	32	45	76	96.5	-	156	110.7
1 1/2"	139	143	32	45	76	96.5	-	156	110.7
2"	145.6	153	32	45	76	96.5	-	165.5	110.7

Coils	Nominal Values	Cold/Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
C40012VDC18W	12VDC 18W	COLD HOT	19,56 14,52	19,56 14,52	1,63 1,21	20 106
C40024VDC18W	24VDC 18W	COLD HOT	20,88 14,64	20,88 14,64	0,87 0,61	25 116
C40110VDC18W	110VDC 18W	COLD HOT	19,96 13,56	19,96 13,56	0,18 0,123	23 115
C40012VAC15VA	12VAC 15VA	COLD HOT	23,81 -	16,43 15,86	1,3 1,262	25 79
C40024VAC15VA	24VAC 15VA	COLD HOT	25,82 -	15,02 13,91	0,62 0,57	22 81
C40110VAC15VA	110VAC 15VA	COLD HOT	30,65 -	15,17 13,96	0,137 0,126	24 80
C40230VAC15VA	230VAC 15VA	COLD HOT	31,4 -	15,64 14,41	0,068 0,063	25 80
C40230VAC24VA	230VAC 24VA	SOĞUK HOT	45,1 -	23,92 21,62	0,0154 0,0154	23 100

Solenoid Valve Symbol	Valve Type/Order No	Connection Size	Orifice Size	Pressure min/max	Kv	Seal	Weight
	S1030	G	mm	Bar	Bar	l/min	kg
	S1030.02	3/8"	12,5	0,35	16	48	0,69
	S1030.03	1/2"	12,5	0,35	16	48	0,73
	S1030.04	3/4"	20	0,5	16	120	0,81
	S1030.05	1"	25	0,5	16	170	0,98
	S1030.06	1 1/4"	30	0,5	12	250	2,65
	S1030.07	1 1/2"	39	0,5	12	370	2,55
	S1030.08	2"	46	0,5	12	450	2,98

STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) are available on request.

- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/EC low voltage directive (LVD).

Not: Please look catalogues for more details.

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On request other voltages

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

Frequency : 50 Hz (60 Hz..)

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Specify coil voltage with order

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Shading Ring : Copper (EN 12735-1)
Seats : Brass
Core Tube : Stainless Steel
Springs : Stainless Steel

OPTIONS

- Female connection: BSP; On request NPT
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• On request Atex (exproof) coil.

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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



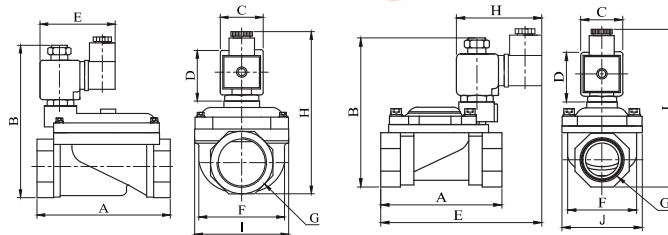
WATER



AIR



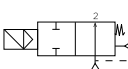
GAS



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

Dimensions (mm)									
G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	76	112
1/2"	69	97	32	45	106.5	38	52	76	112
3/4"	81.3	107.5	32	45	115.8	42.1	52	76	121
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		HOT	14.64	14.64	0.61	116
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		HOT	13.56	13.56	0.123	115
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		HOT	-	15.86	1.262	79
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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		
							NBR	EPDM	VITON	kg
							✓	✓	✓	0.69
							✓	✓	✓	0.66
							✓	✓	✓	0.67
							✓	✓	✓	0.81
							✓	✓	✓	2.66
							✓	✓	✓	2.56
							✓	✓	✓	2.99