

2/2-way solenoid valve

2/2-way type

Art. No. 148565

Type No. MVB.ES.230V.G12.0-10B



Exemplary illustration

The standard series in the versions

- directly operated
- pilot operated

Cable plug in acc. with ISO 4400

Medium temperature max. 160 °C

Technical data

Thread	G 1/2 IT
Operating pressure	0 - 10 bar
Voltage	230 V AC
Housing	stainless steel 1.4401
Valve seat	stainless steel
Internal parts	stainless steel
Sealant	FKM
Medium temperature	-10 to 160 °C
Ambient temperature	-10 to 60 °C
Type	2
Protection IP	IP 65
Electrical connection	ISO 4400 / EN 175301-803 type A
Standard thread	DIN EN ISO 228-1
Opening	2.5 mm
A	82.0 mm
B	50.0 mm
C	80.0 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

Stainless Steel Solenoid Valve SS1051 Series (G1/8", G1/4")

GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valfs are used with filters.
- 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, 230V 24VA DC 12V 18W, 24V 18W, 48V,18W, 110V 18W

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket

Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body	: Stainless Steel (AISI 316)
Internal Parts	: Stainless Steel
Sealing	: VITON, On request; EPDM, NBR
Shading Ring	: Copper (EN 12735-1)
Seats, Core Tube, Springs	: Stainless Steel

OPTIONS

Female connection: BSP; (On request NPT)

- On request Atex (exproof) coil.

TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms

Closing Time : 30 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

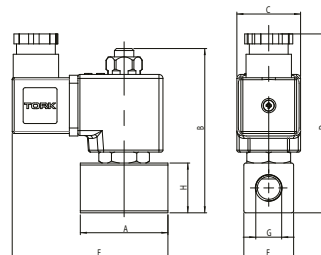
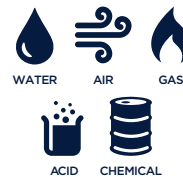


NORMALLY OPEN

2/2 WAY

DIRECT ACTING

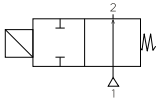
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Dimensions (mm)

G	A	B	C	D	E	F	H
1/8"	44,1	80	32	39	77,4	24,5	24,5
1/4"	44,1	80	32	39	77,4	24,5	24,5

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
C40230VAC15VA	230VAC 24VA	COLD	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	Seal	Weight
	SS1051	G	mm	Bar	Bar	l/min	
							Opsiyon
							VITON
							NBR
							EPDM
							kg
	SS1051.00.018	1/8"	1,8	0	12	1,6	✓
	SS1051.00.025	1/8"	2,5	0	10	3,2	✓
	SS1051.00.030	1/8"	3	0	5	4,6	✓
	SS1051.01.018	1/4"	1,8	0	12	1,6	✓
	SS1051.01.025	1/4"	2,5	0	10	3,2	✓
	SS1051.01.030	1/4"	3	0	5	4,6	✓

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/ECC low voltage directive (LVD).

Not: Please look catalogues for more details.

Stainless Steel Solenoid Valve SS1051 Series ((3/8", 1/2", 3/4", 1"))

GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valfs are used with filters.
- 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, 230V 24VA, DC 12V 18W, 24V 18W, 48V, 18W, 110V 18W

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

Frequency : 50 Hz (60 Hz...)

On request; Connector with LED, PWM Socket

Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body	: Stainless Steel (AISI 316)
Internal Parts	: Stainless Steel
Sealing	: VITON, On request; EPDM, NBR
Shading Ring	: Copper (EN 12735-1)
Seats, Core Tube, Springs	: Stainless Steel

OPTIONS

Female connection: BSP; (On request NPT)

- On request Atex (exproof) coil.

TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms

Closing Time : 30 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

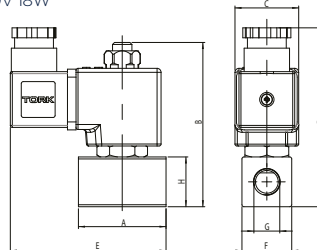
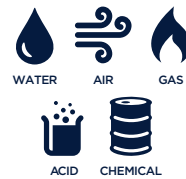


NORMALLY OPEN

2/2 WAY

DIRECT ACTING

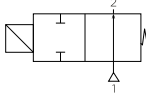
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Dimensions (mm)

	G	A	B	C	D	E	F	H
3/8"	50	80	32	88.3	82	25	25	
1/2"	50	80	32	88.3	82	25	25	
3/4"	60	85	32	93.3	87	30	30	
1"	60	95	32	103.3	87	40	40	

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
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C40230VAC15VA	230VAC 24VA	COLD	45,1	23,92	0,0154	23
		HOT	-	21,62	0,0154	100

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Seal			Weight
	SS1051	G	mm	Bar	Bar	l/min	Opsiyon VITON	NBR	EPDM	kg
	SS1051.02.018	3/8"	1.8	0	12	1.6	✓	✓	✓	0,54
	SS1051.02.025	3/8"	2.5	0	10	3.2	✓	✓	✓	0,54
	SS1051.02.030	3/8"	3	0	5	4.6	✓	✓	✓	0,54
	SS1051.03.018	1/2"	1.8	0	12	1.6	✓	✓	✓	0,44
	SS1051.03.025	1/2"	2.5	0	10	3.2	✓	✓	✓	0,44
	SS1051.03.030	1/2"	3	0	5	4.6	✓	✓	✓	0,44
	SS1051.04.018	3/4"	1.8	0	12	1.6	✓	✓	✓	0,79
	SS1051.04.025	3/4"	2.5	0	10	3.2	✓	✓	✓	0,79
	SS1051.04.030	3/4"	3	0	5	4.6	✓	✓	✓	0,79
	SS1051.05.018	1"	1.8	0	12	1.6	✓	✓	✓	1,01
	SS1051.05.025	1"	2.5	0	10	3.2	✓	✓	✓	1,01
	SS1051.05.030	1"	3	0	5	4.6	✓	✓	✓	1,01

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/ECC low voltage directive (LVD).

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Stainless Steel Solenoid Valve SS1051 Series (G1/8", G1/4")

GENERAL FEATURES

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- Solenoid valves are used with filters.
- 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, 230V 24VA DC 12V 18W, 24V 18W, 48V, 18W, 110V 18W

On request other voltages

Voltages Tolerance : AC -15%, +10% DC -5%, +10%

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MATERIALS IN CONTACT WITH FLUID

Body	: Stainless Steel (AISI 316)
Internal Parts	: Stainless Steel
Sealing	: VITON, On request; EPDM, NBR
Shading Ring	: Copper (EN 12735-1)
Seats, Core Tube, Springs	: Stainless Steel

OPTIONS

Female connection: BSP; (On request NPT)

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TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST veya mm²/s)

Response Time : Opening time : 30 ms

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SEALS FEATURES

NBR : -10°C...+80°C

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VITON : -10°C...+160°C

PTFE : -10°C...+160°C

RUBY : -10°C...+160°C

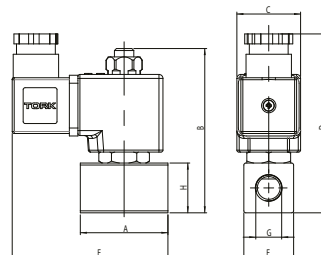
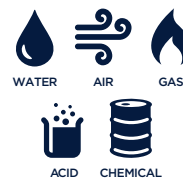


NORMALLY OPEN

2/2 WAY

DIRECT ACTING

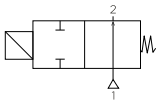
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Dimensions (mm)

G	A	B	C	D	E	F	H
1/8"	44.1	80	32	39	77.4	24.5	24.5
1/4"	44.1	80	32	39	77.4	24.5	24.5

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
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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
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		HOT	-	13,96	0,126	80
C40230VAC15VA	230VAC 15VA	COLD	31,4	15,64	0,068	25
		HOT	-	14,41	0,063	80
C40230VAC15VA	230VAC 24VA	COLD	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	Seal	Weight
	SS1051	G	mm	Bar	Bar	l/min	kg
	SS1051.00.018	1/8"	1.8	0	12	1.6	0,44
	SS1051.00.025	1/8"	2.5	0	10	3.2	0,44
	SS1051.00.030	1/8"	3	0	5	4.6	0,44
	SS1051.01.018	1/4"	1.8	0	12	1.6	0,44
	SS1051.01.025	1/4"	2.5	0	10	3.2	0,44
	SS1051.01.030	1/4"	3	0	5	4.6	0,44

STANDARDS

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On request other voltages

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Frequency : 50 Hz (60 Hz...)

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PTFE : -10°C...+160°C

RUBY : -10°C...+160°C

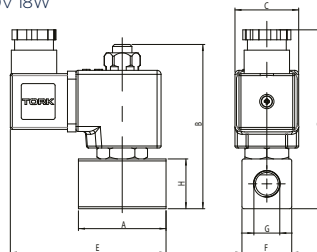
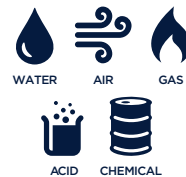


NORMALLY OPEN

2/2 WAY

DIRECT ACTING

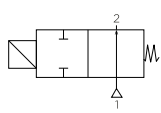
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Dimensions (mm)

	G	A	B	C	D	E	F	H
3/8"	50	80	32	88.3	82	25	25	
1/2"	50	80	32	88.3	82	25	25	
3/4"	60	85	32	93.3	87	30	30	
1"	60	95	32	103.3	87	40	40	

Coils	Nominal Values	Cold/ Hot	Inrush	Holding	Current (A)	Surface Temperature (°C)
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						VITON	
						NBR	
						EPDM	
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	SS1051.02.025	3/8"	2.5	0	10	3.2	✓ ✓ ✓ 0,54
	SS1051.02.030	3/8"	3	0	5	4.6	✓ ✓ ✓ 0,54
	SS1051.03.018	1/2"	1.8	0	12	1.6	✓ ✓ ✓ 0,44
	SS1051.03.025	1/2"	2.5	0	10	3.2	✓ ✓ ✓ 0,44
	SS1051.03.030	1/2"	3	0	5	4.6	✓ ✓ ✓ 0,44
	SS1051.04.018	3/4"	1.8	0	12	1.6	✓ ✓ ✓ 0,79
	SS1051.04.025	3/4"	2.5	0	10	3.2	✓ ✓ ✓ 0,79
	SS1051.04.030	3/4"	3	0	5	4.6	✓ ✓ ✓ 0,79
	SS1051.05.018	1"	1.8	0	12	1.6	✓ ✓ ✓ 1,01
	SS1051.05.025	1"	2.5	0	10	3.2	✓ ✓ ✓ 1,01
	SS1051.05.030	1"	3	0	5	4.6	✓ ✓ ✓ 1,01

STANDARDS

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