GENERAL PURPOSE SOLENOID VALVES

2/2 Way
Direct Operated
G 1/8", G1/4"

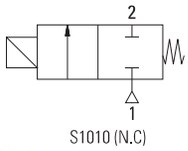
S1010 SERIES

Normally Closed

B

GENERAL FEATURES

- **Small body size.**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc…), gaseous fluids (air, inert gases etc...)**
- Working Temperature : -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 1 mounting hole at the bottom of the body.
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))



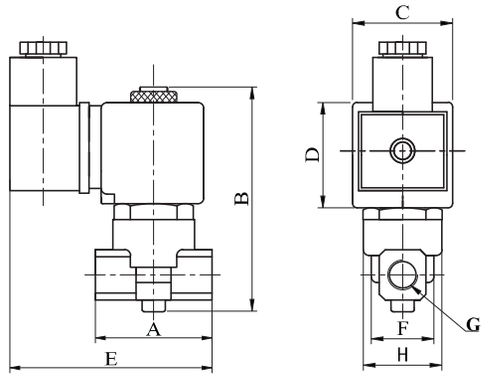
S1010 (N.C)

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection	: DIN 46340 3-poles connectors (DIN 43650)
Connector Specification	: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 48V, 110V, 230V For DC 12V, 24V, 48V, 110 V

Other voltages on request;
Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
Frequency : 50 Hz, other frequencies on request; (60 Hz)
On request; connector with LED
Specify coil voltage with order

TSEK TSE-HYB CERT CE ROHS GOST



MATERIALS IN CONTACT WITH FLUID

Body : Brass
Internal Parts : Stainless Steel
Sealing : NBR
Shading Ring : Copper
Seats : Brass
Core Tube : Stainless Steel
Springs : Stainless Steel
On request; nickel plated body
On request; sealing can be FPM (VITON), EPDM
On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm^2/s)
Response Time : Opening Time : 30 ms,
Closing Time : 30 ms
Maximum Allowable Pressure : 30 bar
Fluid Temperature for FPM (VITON)
from -10°C; +160°C,
for EPDM from -10°C; +140°C

Dimensions (mm)

G	A	B	C	D	E	F	H
1/8"	40	90	32	39	78	22.3	25.6
1/4"	40	90	32	39	78	22.3	25.6

Valve Type / Order no	Connection Size	Orifice size	Pressure min	Pressure max	KV	Fluid Temperature °C min	Fluid Temperature °C max	Seal	Weight
S1010	G	mm	bar	bar	lt/min				(kg)
S1010.00.018	1/8"	1.8	0	16	1.6	-10	80	NBR	0.36
S1010.00.020	1/8"	2	0	15	2	-10	80	NBR	0.36
S1010.00.022	1/8"	2.2	0	14	2.3	-10	80	NBR	0.36
S1010.00.025	1/8"	2.5	0	12	3.2	-10	80	NBR	0.36
S1010.00.030	1/8"	3	0	10	4.6	-10	80	NBR	0.36
S1010.00.040	1/8"	4	0	9	6.4	-10	80	NBR	0.36
S1010.00.050	1/8"	5	0	7	9.2	-10	80	NBR	0.36
S1010.00.060	1/8"	6	0	5	11	-10	80	NBR	0.36
S1010.01.018	1/4"	1.8	0	16	1.6	-10	80	NBR	0.35
S1010.01.020	1/4"	2	0	15	2	-10	80	NBR	0.35
S1010.01.022	1/4"	2.2	0	14	2.3	-10	80	NBR	0.35
S1010.01.025	1/4"	2.5	0	12	3.2	-10	80	NBR	0.35
S1010.01.030	1/4"	3	0	10	4.6	-10	80	NBR	0.35
S1010.01.040	1/4"	4	0	9	6.4	-10	80	NBR	0.35
S1010.01.050	1/4"	5	0	7	9.2	-10	80	NBR	0.35
S1010.01.060	1/4"	6	0	5	11	-10	80	NBR	0.35

Useful Informations

1 bar : 14,5 PSI : 10 mH_2O : 10 N/cm2 : 1 kg/cm2 : 100000 Pa, 1 PSI : 69 mbar,1 m3/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m3/h, 0°C : 89,6 F
Sealings: NBR : Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer

SMS INDUSTRIAL CONTROL VALVES & AUTOMATION SYSTEMS CO.
Head Office: Bostancı Yolu Cad. Kuru Sok. No:16 Y. Dudullu, 34776 Ümraniye - İstanbul / Turkey
Tel: +90 (216) 364 34 05 (pbx) Fax: +90 (216) 364 37 57 export@sms-tork.com www.sms-tork.com
Factory: Çerkeşli OSB Mah. İmes 5.Cad. No:6 Dilovası İMES OSB - Kocaeli / Turkey
Tel: +90 (262) 290 20 20 Fax: +90 (262) 290 20 21

GENERAL PURPOSE SOLENOID VALVES

2/2 Way
Pilot Operated
G 3/8", G1/2", G3/4", G1", G11/4 ", G11/2", G2"

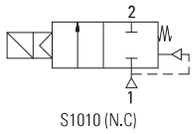
S1010 SERIES

Normally Closed

B

GENERAL FEATURES

- **Suitable for non-aggressive liquids (water, light oil (2E) etc…), gaseous fluids (air, inert gases etc...)**
- Working Temperature : -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating pressure differential 0,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))



S1010 (N.C)

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection	: DIN 46340 3-poles connectors (DIN 43650)
Connector Specification	: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 48V, 110V, 230V For DC 12V, 24V, 48V, 110 V
Other voltages on request;	
Voltage Tolerances	: For AC -15%; +10%, For DC -5%; +10%
Frequency	: 50 Hz, other frequencies on request; (60 Hz)

On request; connector with LED
Specify coil voltage with order

TSEK TSE-HYB CERT CE ROHS GOST

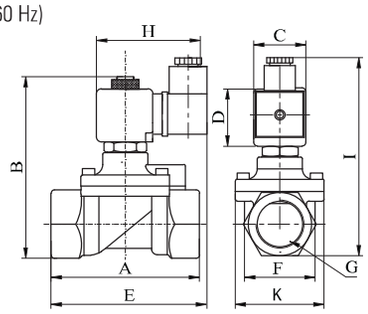
MATERIALS IN CONTACT WITH FLUID

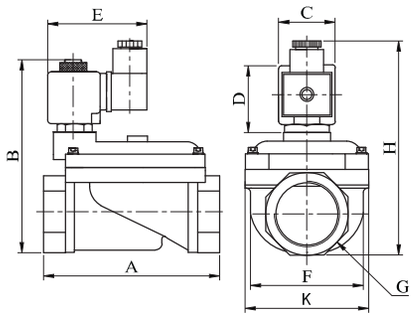
Body	: Brass
Internal Parts	: Stainless Steel and brass
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel
Springs	: Stainless Steel

On request; nickel plated body
On request; sealing can be FPM (VITON),EPDM

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm2/s)
Response Time : Opening Time : 400 ms to ~ 1600 ms,
Closing Time : 1000 ms to ~ 2000 ms
Maximum Allowable Pressure : 25 bar
Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C





Dimensions (mm)

G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	108
1/2"	79	100	32	45	92	39.5	52	76	110
3/4"	79	107.5	32	45	94	41.5	52	76	118
1"	85	115	32	45	101	42.5	52	76	124

Dimensions (mm)

G	A	B	C	D	E	F	K	H
11/4"	141	143	32	45	76	96.5	110.7	156
11/2"	139	143	32	45	76	96.5	110.7	156
2"	145.6	153	32	45	76	96.5	110.7	165.5

Valve Type / Order no	Connection Size	Orifice size	Pressure min	Pressure max	KV	Fluid Temperature °C min	Fluid Temperature °C max	Seal	Weight
S1010	G	mm	bar	bar	lt/min				(kg)
S1010.02	3/8"	12.5	0.5	16	48	-10	80	NBR	0.68
S1010.03	1/2"	14.5	0.5	16	70	-10	80	NBR	0.71
S1010.04	3/4"	17	0.5	16	85	-10	80	NBR	0.8
S1010.05	1"	17	0.5	16	90	-10	80	NBR	0.97
S1010.06	11/4"	46	0.5	12	390	-10	80	NBR	2.65
S1010.07	11/2"	46	0.5	12	460	-10	80	NBR	2.55
S1010.08	2"	46	0.5	12	580	-10	80	NBR	2.98

Useful Informations
1 bar : 14,5 PSI : 10 mH_2O : 10 N/cm2 : 1 kg/cm2 : 100000 Pa, 1 PSI : 69 mbar,1 m3/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m3/h, 0°C : 89,6 F
Sealings: NBR : Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer

SMS INDUSTRIAL CONTROL VALVES & AUTOMATION SYSTEMS CO.
Head Office: Bostancı Yolu Cad. Kuru Sok. No:16 Y. Dudullu, 34776 Ümraniye - İstanbul / Turkey
Tel: +90 (216) 364 34 05 (pbx) Fax: +90 (216) 364 37 57 export@sms-tork.com www.sms-tork.com
Factory: Çerkeşli OSB Mah. İmes 5.Cad. No:6 Dilovası İMES OSB - Kocaeli / Turkey
Tel: +90 (262) 290 20 20 Fax: +90 (262) 290 20 21