

### GENERAL FEATURES

- **TORK series S7011 direct acting explosion proof solenoid valves are 2/2 way normally open and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **New design, internal exhaust system**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- **On request Atex coil**
- 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))

### ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
Coil Encapsulation Material	: Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
Safety mode	: EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
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)
Specify coil voltage with order	

### MATERIALS IN CONTACT WITH FLUID

Body	: Brass
Internal Parts	: Stainless Steel
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel and Brass
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 <sup>2</sup> /s)
Response Time	: Opening Time: 30 ms, Closing Time : 30 ms
Maximum Allowable Pressure	: 20 bar
Fluid Temperature for FPM (VITON)	: from -10°C; +160°C, for EPDM from -10°C; +140°C

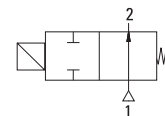
Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
<b>S7011</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>max</b>		<b>(kg)</b>
S 7 0 1 1 . 0 0 . 0 1 8	1/8"	1.8	0	12	1.6	-10	80	NBR	0.6
S 7 0 1 1 . 0 0 . 0 2 5	1/8"	2.5	0	10	3.2	-10	80	NBR	0.6
S 7 0 1 1 . 0 0 . 0 3 0	1/8"	3	0	5	4.6	-10	80	NBR	0.6
S 7 0 1 1 . 0 1 . 0 1 8	1/4"	1.8	0	12	1.6	-10	80	NBR	0.59
S 7 0 1 1 . 0 1 . 0 2 5	1/4"	2.5	0	10	3.2	-10	80	NBR	0.59
S 7 0 1 1 . 0 1 . 0 3 0	1/4"	3	0	5	4.6	-10	80	NBR	0.59

### Useful Informations

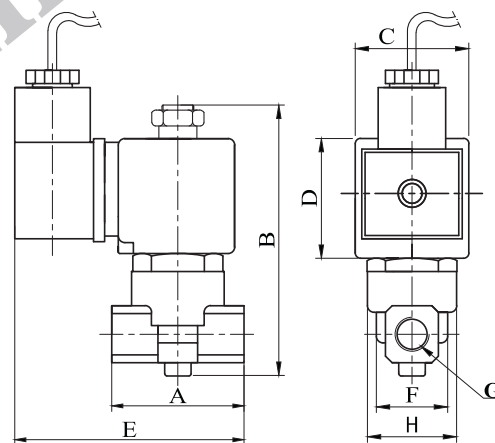
1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
Sealings: NBR: Nitrile-Butylene Elastomer, FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

NEW

Normally Open



S7011 (N.O.)



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