

GENERAL FEATURES

- **TORK series S8011 diaphragm manual reset gas solenoid valves are 2/2 way normally open**
- **The valve is a normally open valve and manual reset and will be closed when energized**
- **Because of low electric consumption during normal operation there is no abrasion, rumble etc. and provides electric saving**
- **For domestic application out side the house. While using with a gas alarm controller it takes the signal from the controller and stops the gas flow**
- **Suitable for Natural gas, LPG, methane, propane, butane, city gas, air, non-corrosive gases (number 3 gas group) that are compatible with the construction materials used in the valves.**
- Working Temperature : -10°C / +80°C
- **Don't require any differential pressure**
- Response Time: less than 1 second
- Maximum Allowable Pressure: 1 bar
- High reliability , quality and performance; long life, corrosion resistance
- Wide pressure ratings , range of flow rate and orifice options
- 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 Rp (ISO 7-1) and G (ISO 228-1) on request; other pipe connections are available (NPT (ANSI 1.20.3))
- With order user has to indicate coils type and voltage
- Coil Voltage should be selected 12 V DC in case the valves are used in earthquake detection equipment
- Coil Voltage should be selected 220V AC in case the valves are used with Gas Alarm equipment
- Avoid removing armature, changing coil

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 220V
 For DC 12V

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

MATERIALS IN CONTACT WITH FLUID

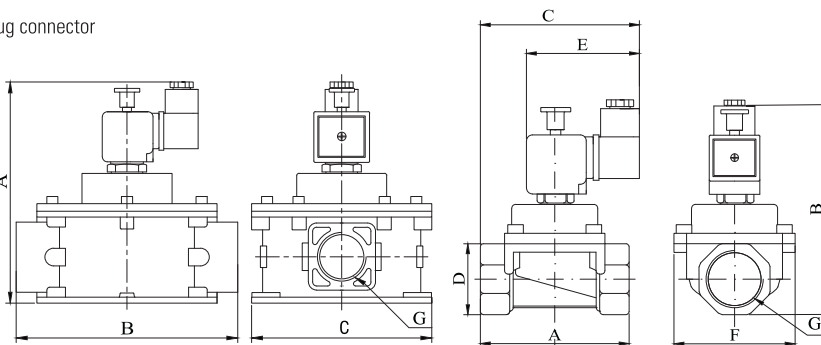
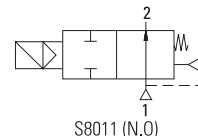
Body : Aluminium
 Internal Parts : Stainless Steel and brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Aluminium
 Core Tube : Stainless Steel
 Springs : Stainless Steel

TECHNICAL FEATURES

Max Viscosity : 5"E (-37cSt or mm²/s)
 Response Time : Opening Time:30 ms,
 Closing Time :30 ms

Fluid Temperature for FPM (VITON)
 from -10°C; +160°C

Normally Open



Dimensions (mm)

	G	A	B	C
1 1/4"	180	160	140	
1 1/2"	180	160	140	
2"	180	160	140	

Dimensions (mm)

	G	A	B	C	D	E	F
3/8"	86	142	101	41	75.5	70	
1/2"	86	142	101	41	75.5	70	
3/4"	86	142	101	41	75.5	70	
1"	86	142	101	41	75.5	70	

Valve Type / Order no	Connection Size	Orifice size	Pressure		Q	Fluid Temperature		Seal	Weight
			min	max		min	max		
S8011		mm	bar	bar	m³/h	°C			(kg)
S8011.02	3/8"	24	0	0.5	10	-10	80	NBR	0.62
S8011.03	1/2"	24	0	0.5	14	-10	80	NBR	0.61
S8011.04	3/4"	24	0	0.5	32	-10	80	NBR	0.6
S8011.05	1"	24	0	0.5	38	-10	80	NBR	0.53
S8011.06	1 1/4"	40	0	0.5	105	-10	80	NBR	1.6
S8011.07	1 1/2"	40	0	0.5	125	-10	80	NBR	1.55
S8011.08	2"	50	0	0.5	145	-10	80	NBR	1.7

Useful Informations

1 bar : 14,5 PSI : 10 mH₂O : 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° : 89,6 F
 Sealings: NBR : Nitrile-Butylene Elastomer

Note: Flow rate is ΔP = 10 mbar measurement (for natural gas)