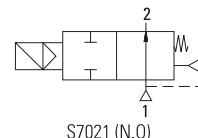


GENERAL FEATURES

- **TORK series S7021 (N.O)** diaphragm explosion proof solenoid valves are 2/2 way normally open and pilot operated
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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 (for 3/8", 1/2", 3/4", 1")**
- **Internal exhaust system for normally open solenoid valves**
- 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))

Normally Open

DON'T REQUIRE ANY DIFFERENTIAL PRESSURE



ELECTRICAL CHARACTERISTICS

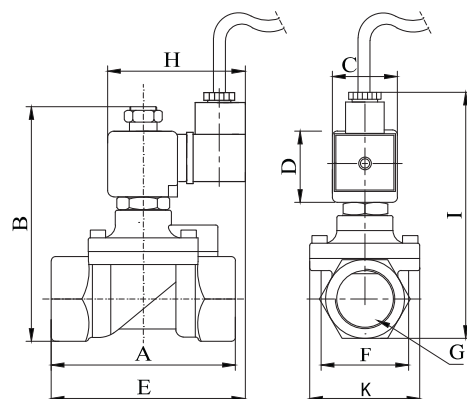
- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Safety mode : Explosionproof operator, intended for use in potentially explosive atmospheres
- Protection Degree : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)
- Electrical Safety : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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 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"	74	97	32	45	91.3	37.5	52	76	108	
1/2"	79	100	32	45	92	39.8	52	76	110	
3/4"	79	107.5	32	45	94	41.5	52	76	118	
1"	85	115	32	45	96	42.5	52	76	124	

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
S7021	G	mm	bar	bar	lt/min	°C			(kg)
S 7 0 2 1 . 0 2	3/8"	12.5	0	12	38	-10	80	NBR	0.92
S 7 0 2 1 . 0 3	1/2"	14.5	0	12	62	-10	80	NBR	0.95
S 7 0 2 1 . 0 4	3/4"	17	0	12	85	-10	80	NBR	1.03
S 7 0 2 1 . 0 5	1"	17	0	12	100	-10	80	NBR	1.21

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°C: 89,6 F
Sealings: NBR: Nitrile-Butylene Elastomer , FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer