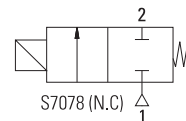


GENERAL FEATURES

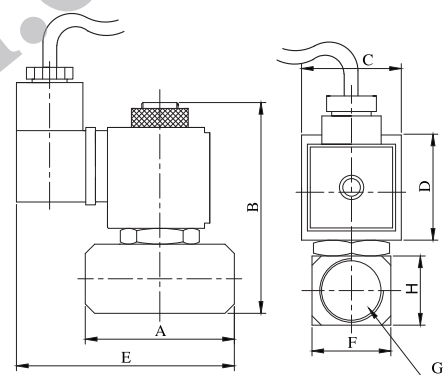
- **TORK series S7078 direct acting explosion proof Stainless Steel solenoid valves are 2/2 way normally closed and have small body size.**
- **Square body, large orifice, high flow rate**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **On request Atex coil**
- Connection size 3/4" and 1".
- **High pressure model available on request:**
- Working Temperature:-10°C / +160°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 2 mounting holes 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))

Normally Closed



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



Dimensions (mm)

	G	A	B	C	D	E	F	H
3/4"	60	86.5	32	39	81.5	30	30	
1"	60	86.5	32	39	81.5	30	30	

MATERIALS IN CONTACT WITH FLUID TECHNICAL FEATURES

- Body : Stainless Steel
 Internal Parts : Stainless Steel
 Sealing : PTFE
 Shading Ring : Copper
 Seats : Stainless Steel
 Core Tube : Stainless Steel
 Springs : Stainless Steel
- Max Viscosity : 5°E (-37cSt or mm²/s)
 Response Time : Opening Time:30 ms,
 Closing Time :30 ms
 Maximum Allowable Pressure:10 bar

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
S7078	G	mm	bar	bar	lt/min	min	max		(kg)
S7078.04.050	3/4"	5	0	7	9.2	-10	160	PTFE	1.01
S7078.04.060	3/4"	6	0	6	11	-10	160	PTFE	1.01
S7078.04.070	3/4"	7	0	5	12.4	-10	160	PTFE	1.01
S7078.04.080	3/4"	8	0	3	13.5	-10	160	PTFE	1.01
S7078.04.090	3/4"	9	0	2	16	-10	160	PTFE	1.01
S7078.04.100	3/4"	10	0	1	19	-10	160	PTFE	1.01
S7078.05.050	1"	5	0	7	9.2	-10	160	PTFE	0.99
S7078.05.060	1"	6	0	6	11	-10	160	PTFE	0.99
S7078.05.070	1"	7	0	5	12.4	-10	160	PTFE	0.99
S7078.05.080	1"	8	0	3	13.5	-10	160	PTFE	0.99
S7078.05.090	1"	9	0	2	16	-10	160	PTFE	0.99
S7078.05.100	1"	10	0	1	19	-10	160	PTFE	0.99

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:PTFE:Polytetrafluorethylene

SMS INDUSTRIAL CONTROL VALVES & AUTOMATION SYSTEMS CO.

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