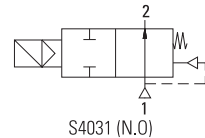


GENERAL FEATURES

- New design, internal exhaust system
- Full orifice fuel oil solenoid valves
- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 0,35, 0,5**
- 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).
- Some applications; burners
- 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



ELECTRICAL CHARACTERISTICS

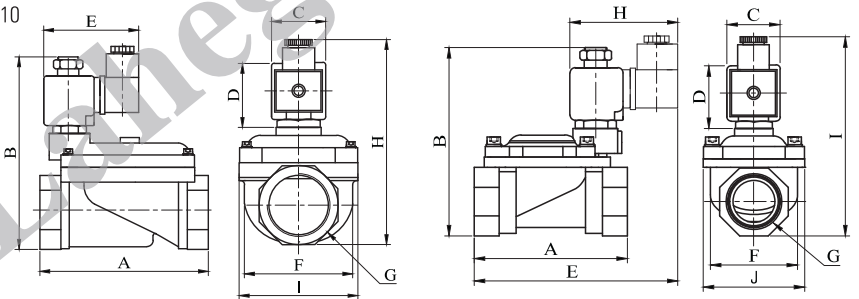
- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric 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



MATERIALS IN CONTACT WITH FLUIDS

- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : FPM (VITON)
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body



Dimensions (mm)

	G	A	B	C	D	E	F	I	H
1 1/4"	141	143	32	45	76	96.5	110.7	156	
1 1/2"	139	143	32	45	76	96.5	110.7	156	
2"	145.6	153	32	45	76	96.5	110.7	165.5	

Dimensions (mm)

	G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	76	112	
1/2"	69	97	32	45	106.5	38	52	76	112	
3/4"	81.3	107.5	32	45	115.8	42.1	52	76	121	
1"	87.9	115	32	45	122.4	51.5	60	76	127.5	

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

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
S4031	G	mm	bar	bar	lt/min	min	°C max		(kg)
S 4 0 3 1 . 0 2	3/8"	12.5	0.35	12	45	-10	160	VITON	0.69
S 4 0 3 1 . 0 3	1/2"	12.5	0.35	12	65	-10	160	VITON	0.66
S 4 0 3 1 . 0 4	3/4"	20	0.5	12	120	-10	160	VITON	0.67
S 4 0 3 1 . 0 5	1"	25	0.5	12	170	-10	160	VITON	0.81
S 4 0 3 1 . 0 6	1 1/4"	46	0.5	10	390	-10	160	VITON	2.66
S 4 0 3 1 . 0 7	1 1/2"	46	0.5	10	460	-10	160	VITON	2.56
S 4 0 3 1 . 0 8	2"	46	0.5	10	580	-10	160	VITON	2.99

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:FPM (VITON);Fluoro-Carbon Elastomer,