

GENERAL FEATURES

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

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

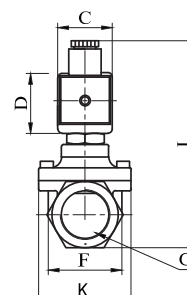
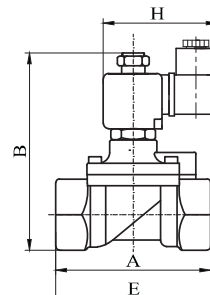
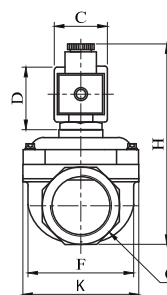
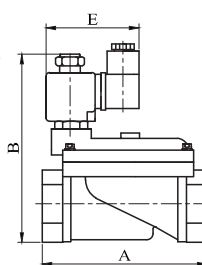
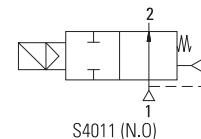
MATERIALS IN CONTACT WITH FLUIDS

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	

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 : 18 bar

Normally Open



Dimensions (mm)

	G	A	B	C	D	E	F	K	H
11/4"	141	143	32	45	76	96.5	110.7	156	
11/2"	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	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	108	
1/2"	79	100	32	45	92	39.5	52	76	110	
3/4"	79	107.5	32	45	94	41.5	52	76	118	
1"	85	115	32	45	101	42.5	52	76	124	

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	°C max		
S4011	G	mm	bar	bar	lt/min	min	°C max		(kg)
S 4 0 1 1 . 0 2	3/8"	12.5	0.5	12	48	-10	160	VITON	0.69
S 4 0 1 1 . 0 3	1/2"	14.5	0.5	12	70	-10	160	VITON	0.72
S 4 0 1 1 . 0 4	3/4"	17	0.5	12	85	-10	160	VITON	0.81
S 4 0 1 1 . 0 5	1"	17	0.5	12	90	-10	160	VITON	0.98
S 4 0 1 1 . 0 6	1 1/4"	46	0.5	10	390	-10	160	VITON	2.66
S 4 0 1 1 . 0 7	1 1/2"	46	0.5	10	460	-10	160	VITON	2.56
S 4 0 1 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