

B

GENERAL FEATURES

- **High working pressure for connections 3/8", 1/2", 3/4" and 1"**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam fluids)**
- 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

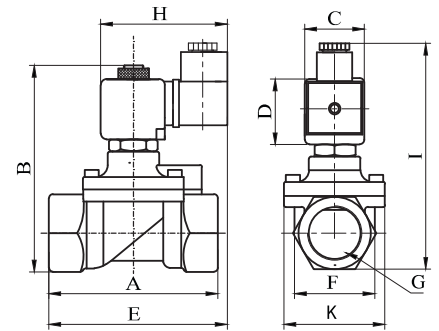
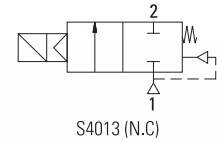
- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : FPM (VITON) + PTFE
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body

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 : 60 bar

Normally Closed

High Pressure



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	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	max		
T-YH	S4013	G	mm	bar	bar	lt/min	°C			(kg)
T-YH 402	S4013.02	3/8"	12.5	0.5	40	48	-10	160	PTFE + VITON	0.69
T-YH 403	S4013.03	1/2"	14.5	0.5	40	70	-10	160	PTFE + VITON	0.73
T-YH 404	S4013.04	3/4"	17	0.5	40	85	-10	160	PTFE + VITON	0.81
T-YH 405	S4013.05	1"	17	0.5	40	90	-10	160	PTFE + VITON	0.98

Useful Informations

1 bar:14,5 PSI:10 mHz0:10 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, PTFE:Polytetrafluorethylene