

### GENERAL FEATURES

- New and special design for vacuum applications
- TORK series S1087 / S1088 direct acting solenoid valves are 2/2 way and 3/2 way normally closed and have small body size.
- Suitable non-aggressive fluids
- Working Temperature : -10°C / +80°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
- 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.

### 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 FLUID

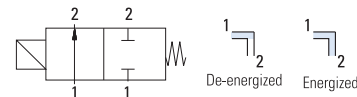
Body	: Brass
Internal Parts	: Stainless Steel
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel
Springs	: Stainless Steel
On request;	nickel plated body

### TECHNICAL FEATURES

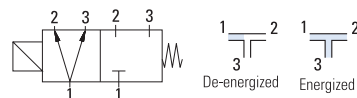
Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
Response Time : Opening Time : 30 ms,  
Closing Time : 30 ms  
Maximum Allowable Pressure : 2 bar

Vacuum Applications

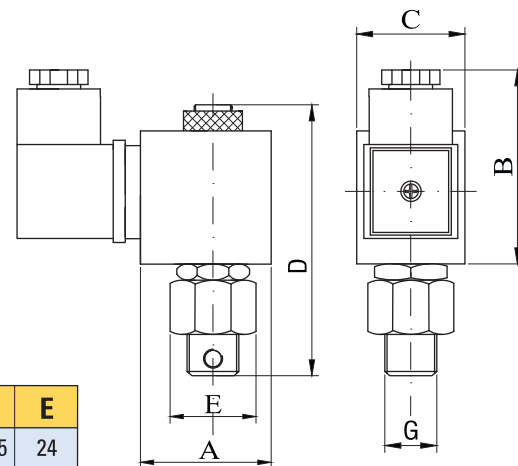
### Normally Closed



S1087 (N.C)



S1088 (N.C)



Dimensions (mm)

G	A	B	C	D	E
3/8"	39	56	32	80.5	24

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
<b>S1087 / S1088</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
S 1 0 8 7 . 1 9 . 0 6 0	3/8"	6	0	1	7	-10	80	NBR	0.41
S 1 0 8 8 . 1 9 . 0 2 5	3/8"	2.5	0	1	3.2	-10	80	NBR	0.53

### Useful Informations

1 bar : 14,5 PSI : 10 mH<sub>2</sub>O : 10 N/cm<sup>2</sup> : 1 kg/cm<sup>2</sup> : 100000 Pa, 1 PSI : 69 mbar, 1 m<sup>3</sup>/h : 4,405 GPM : 16,7 L/d 1 Gallon / minute : 0,227 m<sup>3</sup>/h, 0°C : 89,6 F  
Sealings: NBR : Nitrile-Butylene Elastomer