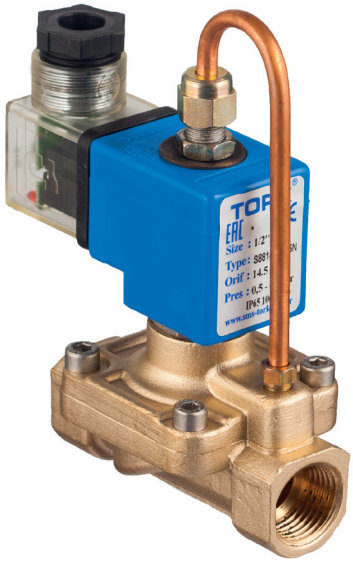
Oxygen and Hydrogen Gas Solenoid Valve
S8814 Series 2/2 Way, Pilot Operated

GENERAL FEATURES
•TORK series S8814 (N.A) diaphragm solenoid valves are 2/2 way and pilot operated.
• It is suitable for non-aggressive fluids (water, oil, etc.) and for gaseous fluids (OXYGEN and HYDROGEN gas, etc.).
•Minimum operating differential pressure is 0.5 bar.
•Wide pressure range, flow rate and orifice options are available.
TORK solenoid valves comply with 97/23/EC, pressure equipment directive (PED) and 2006/95/ECC Low voltage directive (LVD).
•Solenoid valves must be used with a filter.
•Solenoid valves can be mounted in any position without affecting their operation; The coil should be preferred in the vertical up position.
• Standard piping G (BSP) (ISO 228-1) and other piping connections (NPT (ANSI 1.20.3)) available on request



HIGH PRESSURE

NORMALLY OPEN

2 WAY

PILOT OPERATED

ΔP=0,5

OXYGEN HYDROGEN

ELECTRICAL CHARACTERISTICS
Continuous Duty : ED %100
Coil Insulation Class : H (180°C)(IEC 85)
Coil Impregnation : Polyester Fiber Glass
Ambient Temperature : -20°C, +60°C
Protection Degree : IP65 (ISO 60529) On request;IP68
Electric Plug Connection : DIN 46340 3– Poles Connector(DIN43650)
Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)

Electrical Safety IEC 335
Standard Voltages : AC 12V, 24V, 48V, 110V, 230V
DC 12V, 24V, 48V,110V

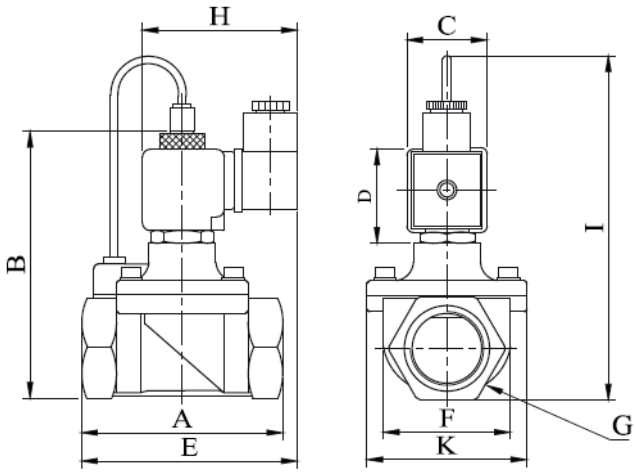
On request other voltages
Voltages Tolerance : AC -15%, +10% DC -5%, +10%
Frequency : 50 Hz (60 Hz...) On request; Connector with LED,

PWM Socket Specify coil voltage with order

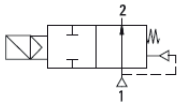
MATERIALS IN CONTACT WITH FLUID
Body : Brass
Internal Parts : Stainless Stell Brass
Sealing : EPDM
Shading Ring : Copper (EN 12735-1)
Seats, Core Tube, Springs : Stainless Stell

OPTIONS
Connection thread: BSP; NPT on request
CR-Ni coating, PTFE coating can be made upon request.
With Atex (exproof) coil upon request.

TECHNICAL FEATURES
Max. Viscosity : 5°E (~37cST or mm2/s)
Response Time : Opening time : 400 ms- 1600 ms
Closing Time : 1000 ms- 2000 ms



Dimensions (mm)									
G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	124
1/2"	79	100	32	45	92	39.8	52	76	128
3/4"	79	107.3	32	45	94	41.5	52	76	134
1"	85	115	32	45	101	42.5	52	76	143.5

Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Orifice Size	Pressure min/max		Kv	Fluid Temperature min/max		Seal	Weight
	S8814	G	mm	Bar	Bar	Lt/dk	C°		EPDM	kg
	S8814.02	3/8"	12.5	0.5	40	48	-30	+140	✓	0,68
	S8814.03	1/2"	14.5	0.5	40	70	-30	+140	✓	0,71
	S8814.04	3/4"	17	0.5	40	85	-30	+140	✓	0,8
	S8814.05	1"	17	0.5	40	90	-30	+140	✓	0,97

Not: Please look catalogues for more details.

STANDARDS
• Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request
• TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

TS8814EN260930