

### GENERAL FEATURES

- **TORK series S8480.01-S8480.03-S8480.04 series direct acting isolation solenoid valves are 2/2 way normally closed and normally open. ( S8480.04 has not normally open )**
- **TORK series S8480.02-S8480.05 pilot operated plastic valves are 2/2 way normally closed and normally open.**
- These solenoid valves are recommended for use in application where corrosive fluid must be controlled, such as chemical process , water treatment , analysis device etc... (for S8480.01-S8480.03 and S8480.04)
- These solenoid valves are recommended for use in application where high flow at high pressure is required. (for S8480.02 and S8480.05 )
- The typical applications are; industrial furnaces, heating equipments, burners, oil and gas, autoclaves, dental equipments, instrumentation, car washers, machine industries and irrigation ( for S8480.02 and S8480.05)
- Minimum operating differential pressure 0,5 ( for S8480.02 and S8480.05 ), no differential pressure required for S8480.01-S8480.03 and S8480.04
- Suitable for non-aggressive liquids ( water, acid, light oil (2E) etc. . . ), gaseous fluids (air, inert gases etc..)
- (for S8480.01 , S8480.03 and S8480.04)( don't use acid for S8480.02 and S8480.05 )
- Suitable to work only with AC 8W-5,5W and DC 10W-5,5W coils ( for S8480.01 normally closed and normally open).Suitable to work only with AC 8W (for S8480.03 normally closed ) , AC10W-5,5W and DC 10W coils (for S8480.03 normally open ).Suitable to work only with AC 65VA and DC 38W coils ( for S8480.04 normally closed)
- **All valves are assembled with seal coil nut, lower coil gasket and impregnated coil (for S8480.03)**
- **Plastic manual override ( only S8480.01 normally closed types )**
- **Working Temperature : -10°C / +80°C ( for S8480.01-S8480.02-S8480.05 ) and +5°C / +50°C ( for S8480.03-S8480.04)**
- **Specify if application is pressure or vacuum ( for S8480.03-S8480.04-S8480.05 ) .They can be used for industrial and irrigation control and automation systems .On request normally open but that type has not manual override..To order valves manufactured to your specific requirements , please contact our technical department. Not suitable for use with dangerous fluids listed in Group 1.Compact and low weight valve enabling easy and quick installation .High reliability , quality and performance, long life , corrosion resistance**
- **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))**
- **On request explosion proof coil**

### 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 ; +50°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 and DC % -5 ; % +10, Frequence : 50 Hz, other frequencies on request ( 60 Hz)  
 On request; connector with LED  
 Specify coil voltage with order

### MATERIALS IN CONTACT WITH FLUID

Body : Reinforced PPA ( for S8480.01 ) , PVC ( for S8480.03 and S8480.04 ) ,  
 Nylon 66 ( for S8480.02-S8480.05 )  
 Internal Parts : Stainless Steel  
 Sealing : FPM ( VITON )  
 Shading Ring : Copper  
 Seats : Reinforced PPA  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel  
 On request; sealing can be EPDM

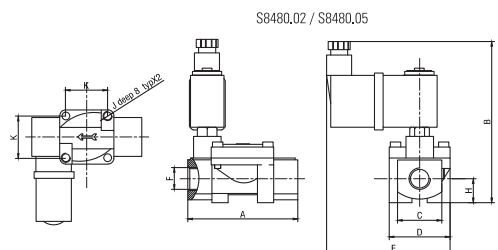
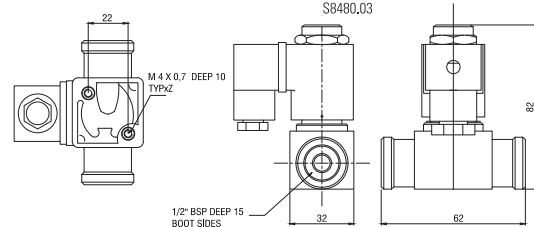
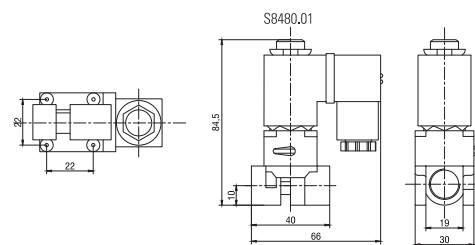
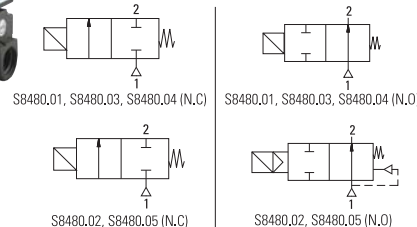
### TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s),  
 Response Time: ( for S8480.01-S8480.03-S8480.04 ) : Opening Time :30 ms, Closing Time : 30 ms  
 Response Time: ( for S8480.02-S8480.05 ) : Opening Time : 400 ms to ~ 1600 ms,  
 Closing Time: 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 15 bar ( for S8480.02-S8480.05 ) , 4 bar  
 (for S8480.01-S8480.03-S8480.04 )  
 Fluids Temperature for EPDM from -10°C ; +80°C  
 S8480.01 normally open pressure range is from 0 bar to 1 bar  
 S8480.03 normally open pressure range is from -0,4 bar to 0,5 bar  
 Note: Normally open series pressure range 0 - 1bar

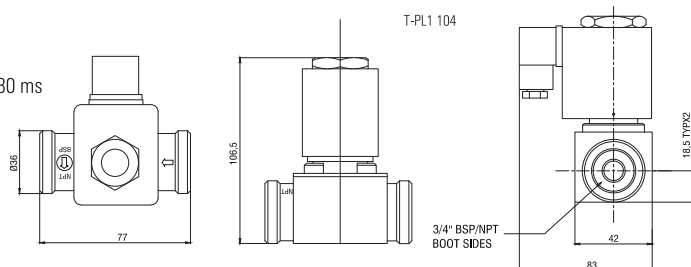


### Normally Closed

### Normally Open



Size	A	B	C	D	E	H	J	K
3/8"	58	86	22	32	65	11	M5X0.8	22
1/2"	70	90	27	38	68	13.5	M5X0.8	22



Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
<b>S8480</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>	<b>°C</b>		<b>(kg)</b>
S 8 4 8 0 . 0 1 . 0 4 5	1/4"	4,5	-1	2	5	-15	90	VITON	0,2
S 8 4 8 0 . 0 3 . 0 8 0	1/2"	8	0	0,7	10	5	50	VITON	0,35
S 8 4 8 0 . 0 4 . 1 4 0	3/4"	14	-1	3	45	5	50	VITON	0,4
S 8 4 8 0 . 0 2 . 0 8 0	3/8"	8	0,5	10	16	-15	80	VITON	0,4
S 8 4 8 0 . 0 3 . 1 2 0	1/2"	12	0,5	10	35	-15	80	VITON	0,4

### 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:FPM (VITON);Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer