

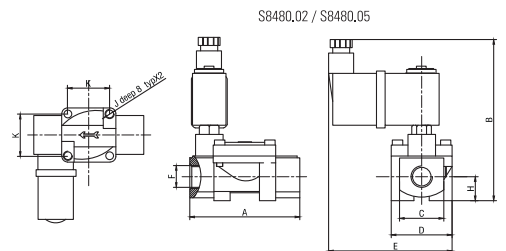
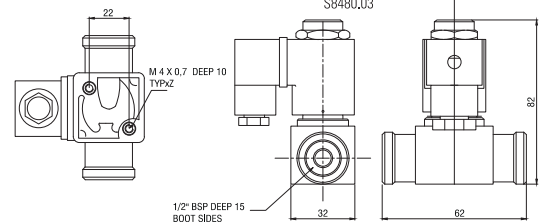
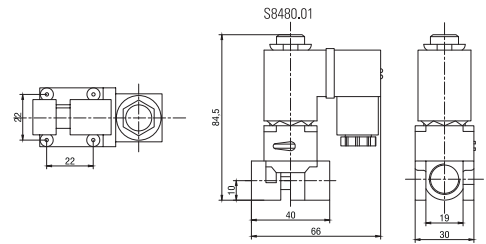
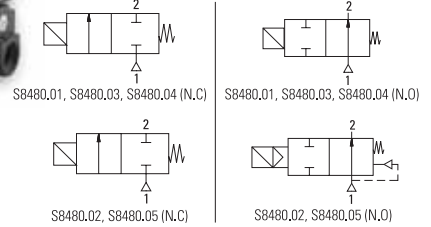
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GENERAL FEATURES

- **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**

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

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

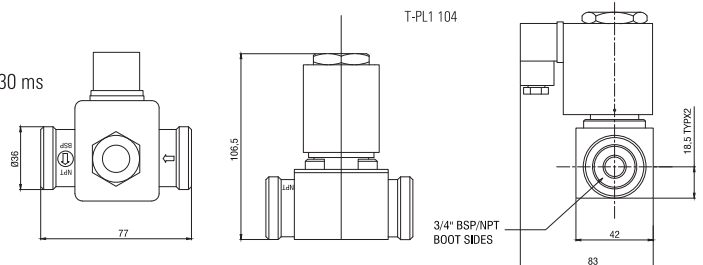
Other voltages on request
 Voltage Tolerances : For AC and DC % -5 ; % +10, Frequence : 50 Hz, other frequencies on request (60 Hz)
 On request; connector with LED
 Specify coil voltage with order

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 mm²/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



Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-PL1	S8480	G	mm	bar	bar	lt/min	°C			(kg)
T-PL1 101	S8480.01.045	1/4"	4,5	-1	2	5	-15 90	VITON	0,2	
T-PL1 103	S8480.03.080	1/2"	8	0	0,7	10	5 50	VITON	0,35	
T-PL1 104	S8480.04.140	3/4"	14	-1	3	45	5 50	VITON	0,4	
T-PL1 102	S8480.02.080	3/8"	8	0,5	10	16	-15 80	VITON	0,4	
T-PL1 105	S8480.03.120	1/2"	12	0,5	10	35	-15 80	VITON	0,4	

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, EPDM:Ethylene-Propylene Elastomer