

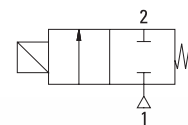
**PRODUCT INTRODUCTION**

- Solenoid Valve is an automatic control part used in refrigeration system to control the refrigerant to pass or not pass, the valve is widely used in compressor group, central air-conditioning, coldstorage equipment and bus air-conditioning systems.

**TECHNICAL PARAMETERS**

Refrigerant : CFC. HCFC. HFC  
Media Temperature : -30°C+105°C  
Service : 100.000 cycles  
Max.Opening Pressure : 2.5MPa  
Min.Openig Pressure : 0.3MPa  
Working Pressure : 3.0MPa  
Approval : CE  
Specify coil voltage with order

**Normally Closed**



S8870



S8810

Valve Type / Order no	New Valve Type / Order no	Port Size	Connection			Working Pressure	KV Factor
			SAE	OSD Ø			
T-SV.R / T-SV.H	S8810 / S8870	(mm)		Min	Mm	(bar)	(m³/hr)
T-SV.R 1020/2 SAE	S8810 1020/2 SAE	2.5	1/4"	-	-	0	0.175
T-SV.R 1020/3 SAE	S8810 1020/3 SAE	3.0	3/8"	-	-		0.23
T-SV.H 1028/3 ODF	S8870 1028/3 ODF	3.0	-	3/8"	-		0.15
T-SV.H 1028/2 ODF	S8870 1028/2 ODF	2.2	-	1/4"	-		
T-SV.R 1064/3 SAE	S8810 1064/3 SAE	7.0	3/8"	-	-	0.05	0.8
T-SV.R 1064/4 SAE	S8810 1064/4 SAE	7.0	1/2"	-	-		
T-SV.H 1068/3 ODF	S8870 1068/3 ODF	7.0	-	3/8"	-		
T-SV.H 1068/4 ODF	S8870 1068/4 ODF	7.0	-	1/2"	-		
T-SV.R 1070/4 SAE	S8810 1070/4 SAE	12.5	1/2"	-	-		
T-SV.H 1078/4 ODF	S8870 1078/4 ODF	12.5	-	1/2"	-		
T-SV.R 1070/5 SAE	S8810 1070/5 SAE	12.5	5/8"	-	-		
T-SV.H 1078/5 ODF	S8870 1078/5 ODF	12.5	-	5/8"	16		
T-SV.H 1078/1 1ODF	S8870 1078/1 1ODF	12.5	-	7/8"	22		
T-SV.H 1079/7 ODF	S8870 1079/7 ODF	12.5	3/4"	-	-		
T-SV.R 1070/6 SAE	S8810 1070/6 SAE	12.5	-	3/4"	-		
T-SV.H 1078/6 ODF	S8870 1078/6 ODF	12.5	-	7/8"	-		
T-SV.H 1078/7 ODF	S8870 1078/7 ODF	25.5	-	11/8"	-		
T-SV.H 1078/9 ODF	S8870 1078/9 ODF	25.5	-	11/8"	-		
T-SV.H 1079/11 ODF	S8870 1079/11 ODF	25.5	-	13/8"	35		
T-SV.H 1078/11 ODF	S8870 1078/11 ODF	27	-	13/8"	35		0.07

**Useful Informations**

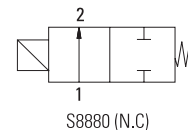
1 bar:14,5 PSI:10 mH2O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, 0°C:89,6 F  
Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

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### GENERAL FEATURES

- TORK series S8880 direct acting solenoid valves are 2/2 way normally closed
- Solenoid valve is a kind of with mini-flow and normal close, mainly used for adjusting the defrost controlling the direction of the media flow the refrigerating system. At present it is widely used in refrigerator, a conditioning system and humidity eliminator etc.
- Suitable for Fluid: R12, R22, R502, R134a, R407c, R410a etc
- Especially used for refrigerating fluids.
- Hermetic construction completely braze welded
- Working Temperature:-30°C and maximum +120°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
- 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.

### Normally Closed



### 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
Rated Voltage	: AC220V AC 50/60Hz, 110V DC 50/60Hz, 24V AC 50/60Hz
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

### TECHNICAL FEATURES

Max Viscosity	: 5°E (~37cSt or mm <sup>2</sup> /s)
Response Time	: Opening Time:30 ms, Closing Time:30 ms
Max.operating pressure:	3.0 Mpa 4.2Mpa
Durability:	>150.000

Valve Type / Order no	New Valve Type / Order no	Port Size	Connection	O.P.D. (Mpa)		Mpa	Motion Type
				Min	Max		
T-SV.K 100	S8880.00	1.5	6.35	0	3	3.4	Normally Closed
T-SV.K 101	S8880.01	2	6.5	0	2.1	3	Normally Closed
T-SV.K 102	S8880.02	4	6.5	0	3.6	4.2	Normally Closed
T-SV.K 103	S8880.03	5.8	8	0	3.6	4.2	Normally Closed
T-SV.K 104	S8880.04	6	-	-	-	-	Normally Closed
T-SV.K 105	S8880.05	8	-	-	-	-	Normally Closed

### 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