TORK valve & automation high quality

HOSE CONNECTION PVC SOLENOID VALVES

2/2 Way
Pilot Operated
G3/4"

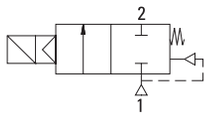
S8710
S8770 SERIES
S8780

B

GENERAL FEATURES

Normally Closed

Function : Normally closed
Mounting Position : Optional
Medium : Neutral fluids
Ambient Temperature : 60°C (80°C)
Medium Temperature : 25°C Cold water type
90°C Hot water type
Operating Pressure : 0,3 - 10 Bar
Flow Direction : Marked with an arrow on the housing
Attachments : Inlet male tread R 3/4"
Outlet pipe Ø 10.5mm
Fastening Possibilities : Bracket with M4 holes
(Hole distance 45mm or 56mm)
Quick fastener



S8710 / S8770 / S8780 (N.C)

ELECTRICAL SPECIFICATIONS

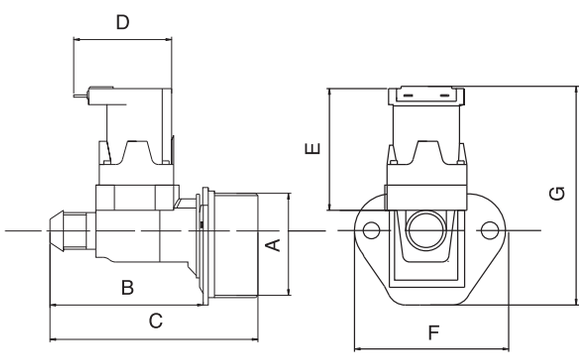
Voltage : 220/240 V(AC), 50/60 Hz
(Other types according to customer requirements)
Operating Rate : At Tm 25°C, 100%
At Tm 90 °C, 3min./5min.
Power Input : 7 W
Attachments : Faston A 6,3 x 0,8 according to DIN 46244
Appliance Classification : II according to VDE 0730, VDE EN 60730

MATERIALS

Housing : PA 6.6, 30% GF
Core Holder : PA 6.6, 30% GF
Coil Casing : Electrical and thermal insulation, self-est. PP (UL94 V2)
Core and Spring : Stainless steel
Diaphram, Flow Regulator and Rubber Cap: EPDM rubber, NBR rubber
Filter : POM
Copper-Lacquer Wire : Insulation classification F according to VDE 0530

APPROVAL

All General Types : VDE



Dimensions (mm)

A	B	C	D	E	F	G
1"	68	88	45	46	55	70

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature °C		Seal	Weight
T-PL2 / T-PLM2 T-PLN2	S8710 / S8770 S8780	G	mm	bar	bar	lt/min	min	max		(kg)
T-PL2 102	S8710.04	3/4" inlet Ø10.5 outlet with bracket	10	0.3	10	26	-10	140	EPDM	0.1
T-PLM2 102	S8770.04		10	0.3	10	26	-10	140	EPDM	0.1
T-PLN2 102	S8780.04		10	0.3	10	26	-10	140	EPDM	0.1

TORK valve & automation high quality

HOSE CONNECTION SOLENOID VALVES

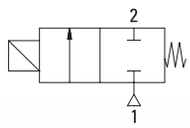
2/2 Way
Direct Operated
G1/8"

S8790 SERIES

B

GENERAL FEATURES

Normally Closed



S8790 (N.C)

- **TORK series S8790 direct acting hose connection solenoid valves are 2/2 way normally closed and have small body size.**
- **Hose connection.**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc…), gaseous fluids (air, inert gases etc...)**
- 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
- **On request; solenoid valve can have 1 mounting hole at the bottom of the body.**
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- 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))

TSE-HYB CERT CE ROHS GOST

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

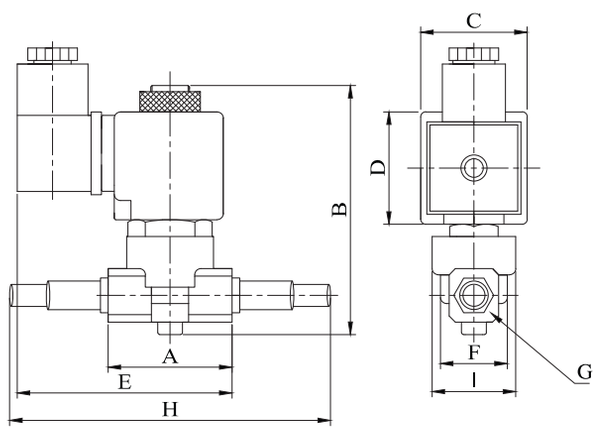
MATERIALS IN CONTACT WITH FLUID

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
On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm^2/s)
Response Time : Opening Time:30 ms, Closing Time :30 ms
Maximum Allowable Pressure:30 bar
Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C
Hose diameter is 6 mm. On request can be 8 mm.



Dimensions (mm)

G	A	B	C	D	E	F	I	H
1/8"	40	90	32	39	78	22.3	27.7	108.8
1/4"	40	90	32	39	78	22.3	27.7	108.8

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature °C		Seal	Weight
T-GMW	S8790	G	mm	bar	bar	lt/min	min	max		(kg)
T-GMW 100.5	S8790.00.050	1/8"	5	0	7	9.2	-10	80	NBR	0.39
T-GMW 100.7	S8790.00.070	1/8"	7	0	5	12.4	-10	80	NBR	0.39

Useful Informations
1 bar:14,5 PSI:10 mH_2O:10 N/cm^2:1 kg/cm^2:100000 Pa , 1 PSI:69 mbar,1 m^3/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m^3/h, 0°C:89,6 F
Sealings:NBR:Nitrile-Butylene Elastomer , FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer