

General Purpose Flanged Solenoid Valves S1070 / S1080 Series

GENERAL FEATURES

- New design
- Full orifice flanged solenoid valves
- 3", 4", 6" and 8" connection
- TORK series S1070 (N.C) and S1080 (N.C) diaphragm solenoid valves are 2/2 way normally closed and pilot operated
- Suitable for water
- Working Temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 1 and 1,5 bar
- High reliability, quality and performance; long life. corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- 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))

ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100 : H (180°C) Coil Insulation Class

Coil Impregnation : Polyester Fiber Glass Coil Encapsulation Material: Fiber Glass Reinforced Ambient Temperature : from -10°C, +60°C

Protection Degree : IP65 (ISO 60529) with coil duly fitted

with the plug connector

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 : For AC 12V, 24V, 48V, 110V, 230V

For DC 12V, 24V, 48V, 110 V

On request other voltages

: For AC -15%; +10%, For DC -5%; +10% Voltages Tolerance

: 50 Hz, other frequencies on request; (60 Hz ...) Frequency

On request; connector with LED Specify coil volt age with order

MATERIALS IN CONTACT WITH FLUID

Body : Cast Iron

SOLENOID MATERIALS

Internal Parts Stainless Steel, Brass

Sealing · NBR

Shading Ring : Copper (EN 12735-1)

Seats : Brass

Stainless Steel Core Tube Springs : Stainless Steel

OPTIONS

Female connection: BSP; (On request NPT)

• On request CR-Ni plated, PTFE coated done

• On request Atex (exproof) coil.

TECHNICAL FEATURES

Max. Viscosity : 5°E (~37cST veya mm²/s

Response Time

Opening time: 400 ms- 1600 ms Closing Time: 1000 ms-2000 m

Closing Time: 1000 ms-2000 ms	
Useful Informations 1 bar:14,5 PSI:10 mH20:10 N/cm2:1 kg/ cm 2:100000Pa, 1 PSI:69 mbar,1 m3/h:4,405	2 1 1

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Solenoid Vave Symbol	Valve Type/ Order No	Connection Size	Pressure min/max		Kv Fluid Temperature		Seal	Weight	
	S1070 / S1080	DN	Bar	Bar	Lt/dk	min o	C max		kg
	S1070.10	80	1	6	3380	-10	80	NBR	20.7
2	S1070.12	100	1	6	3610	-10	80	NBR	22.3
T I W	S1070.18	150	1	6	7450	-10	80	NBR	54.2
	S1070.20	200	1	6	14600	-10	80	NBR	84.9
<u></u>	S1080.10	80	1.5	16	3380	-10	80	NBR	20.7
I	S1080.12	100	1.5	16	3610	-10	80	NBR	22.3
	S1080.18	150	1.5	16	7450	-10	80	NBR	54.2
	S1080.20	200	1.5	16	14600	-10	80	NBR	84.9



2/2 WAY

PILOT OPERATED



1

_	C	В	А	a	
300	340	208	160	18	
305	365	208	180	18	
390	450	300	240	22	
475	550	385	295	22	
	305 390	305 365 390 450	305 365 208 390 450 300	305 365 208 180 390 450 300 240	305 365 208 180 18 390 450 300 240 22

GPM:16,7 L/d1 Gallo n/minute:0,227 m3/h, Cv:1,16 Kv, 0°C:89,6F Sealings: NBR: Nitrile-Butylene Elastomer