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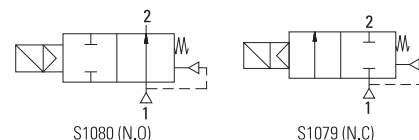
GENERAL FEATURES

- New design
- Full orifice flanged solenoid valves
- DN32, DN40 and DN 50 flanged connection option
- TORK series S1079 (N.C) and S1080 (N.O) diaphragm solenoid valves are 2/2 way normally closed and normally open pilot operated
- 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
- **Minimum operating differential pressure 0,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- **On request; manual override**
- Ideal for the automatic control of media in a wide range of applications.
- 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))

NEW

Normally Closed

Normally Open



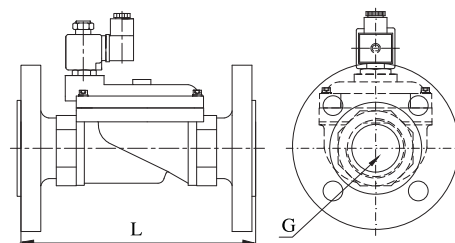
ELECTRICAL CHARACTERISTICS

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 TECHNICAL FEATURES

Body	: Brass	Max Viscosity	: 5°E (-37cSt or mm ² /s)
Internal Parts	: Stainless Steel and brass	Response Time : Opening Time	: 400 ms to ~ 1600 ms,
Sealing	: NBR	Closing Time	: 1000 ms to ~ 2000 ms
Shading Ring	: Copper	Maximum Allowable Pressure	: 20 bar
Seats	: Brass	Fluid Temperature for FPM (VITON)	from -10°C; +160°C, for EPDM from -10°C; +140°C
Core Tube	: Stainless Steel		
Springs	: Stainless Steel		
Flange	: Steel		
On request; nickel plated body			
On request; sealing can be FPM (VITON), EPDM			



Dimensions (mm)

DN	32	40	50
L	180	200	230

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
			min	max		min	max		
S1079 / S1080	DN	mm	bar	bar	lt/min	min	max		(kg)
S 1 0 7 9 . 0 6	32	46	0.5	12	390	-10	80	NBR	6.65
S 1 0 7 9 . 0 7	40	46	0.5	12	460	-10	80	NBR	6.9
S 1 0 7 9 . 0 8	50	46	0.5	12	580	-10	80	NBR	8.6
S 1 0 8 0 . 0 6	32	46	0.5	10	390	-10	80	NBR	6.65
S 1 0 8 0 . 0 7	40	46	0.5	10	460	-10	80	NBR	6.9
S 1 0 8 0 . 0 8	50	46	0.5	10	580	-10	80	NBR	8.6

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