high quality

LATCHING SOLENOID VALVES

2/2 Way Pilot Operated G 3/8", G1/2", G3/4", G1", G11/4", G11/2", G2" **SERIES**

Normally Closed

S8310 (N.C)

GENERAL FEATURES

No continious energy required. Low coil power (4.5 to 5 W for DC) and current 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 0,35, 0,5 High reliability, quality and performance; long life, corrosion resistance

Wide pressure ratings, range of flow rate and orifice options
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))

ELECTRICAL CHARACTERISTICS

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

Coil Impregnation Polyester Fiber Glass Coil Encapsulation Material Fiber Glass Reinforced

from -10°C; +60°C IP 65 (EN 60529) with coil duly <u>fitted with</u> the plug connector Ambient Temperature Protection Degree

Electric Plug Connection Electrical Safety Standard Voltages Other voltages on request; DIN 46340 3-poles connectors (DIN 43650)

: For DC 6V, 9V, 12V Latching (Polarity (+, -), Change (-, +)

Voltage Tolerances : For DC %-5; %+10

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

On request; connector with LED

MATERIALS IN CONTACT WITH FLUIDS

Stainless Steel and brass

Specify coil voltage with order

Brass

NBR

: Copper

Brass

Stainless Steel Springs : Stainless Steel On request; nickel plated body On request; sealing can be FPM (VITON),EPDM

Body

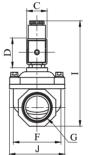
Sealing

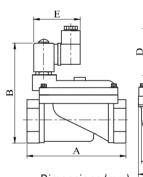
Seats

Internal Parts

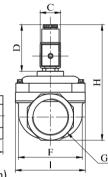
Shading Ring

Core Tube





Low Coil Power



C€ ROHS

GOST

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)

: Opening Time :400 ms to ~ 1600 ms, Closing Time :1000 ms to ~ 2000 ms Response Time

:20 bar

Maximum Allowable Pressure Fluid Temperature for FPM (VITON)

from -10°C; +160°C, for EPDM from -10°C; +140°

Latching solenoid valves work from 6 to 9 V DC voltages. The coils' on and off position is provided by changing the cables' +/- ends over the coil. Battery or a proper voltage source is used for feeding. The valve's position is changed by giving an instantaneous energy. The coil is not under a constant energy

Dimensions (mm)

G	Α	В	C	D	E	F	J	Н	I
3/8"	69	92	22	34	97.5	38	52	57	105
		95							
3/4"	81.3	103	22	34	106.5	42.1	51.9	57	114
1″	87.9	110	22	34	111	51.5	60.9	57	120.5

Dimensions (mm)											
G	Α	В	C	D	Ε	F	Т	Н			
11/4"	141	139	22	34	57	96.5	110.7	149			
11/2"	139	139	22	34	57	96.5	110.7	149			
2"	145.6	139	22	34	57	96.5	110.7	149			

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size		ssure / max	KV	Fluid Temperature		Seal	Weight
T-LAC1	S8310	G	mm	bar	bar	lt/min	min	C max		(kg)
T-LAC1 102	S8310.02	3/8"	12.5	0.35	12	45	-10	80	NBR	0.5
T-LAC1 103	S8310.03	1/2"	12.5	0.35	12	65	-10	80	NBR	0.49
T-LAC1 104	S8310.04	3/4"	20	0.5	12	120	-10	80	NBR	0.51
T-LAC1 105	S8310.05	1"	25	0.5	12	170	-10	80	NBR	0.64
T-LAC1 106	S8310.06	11/4"	46	0.5	8	390	-10	80	NBR	2.2
T-LAC1 107	S8310.07	11/2"	46	0.5	8	460	-10	80	NBR	2.1
T-LAC1 108	S8310.08	2"	46	0.5	8	580	-10	80	NBR	2.45

Useful Informations

1 bar:14,5 PSI:10 mH₂0:10 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





LATCHING SOLENOID VALVES

2/2 Wav **Pilot Operated** G1/8", G1/4", G3/8", G1/2", G3/4", G1" S8380 **SERIES**

Normally Closed

S8380 (N.C)

GENERAL FEATURES

- Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
- No continious energy required.
- They work in a wide range of pressure
- On request; manual override
- Working Temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 0 and 0.35 bar
- 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 nreferred
- 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 Coil Insulation Class :H (180°C)

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

: For DC 6V, 9V, 12V Latching (Polarity (+, -), Change (-, +) Standard Voltages

Other voltages on request; Voltage Tolerances For DC %-5; %+10

Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUIDS

Body : Brass

Springs

Internal Parts : Stainless Steel NBR (3/8" to 1" Sealing

VITON (1/8" and 1/4")

Shading Ring: Copper : Brass Seats Stainless Steel Core Tube

TECHNICAL FEATURES

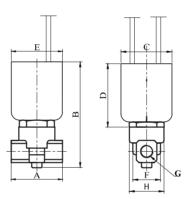
Max Viscosity : 5°E (~37cSt or mm²/s)

: Opening Time: 400 ms to ~ 1600 ms, Closing Time: 1000 ms to ~ 2000 ms esponse Timé

Maximum Allowable Pressure: 25 bar Fluid Temperature for FPM (VITON) from -10°C; +160°C, for NBR from -10°C; +80°

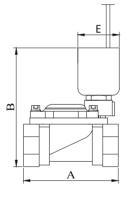
: Stainless Steel

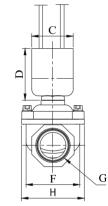
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G	Α	В	С	D	Ε	F	Н
1/8"	40	94	40	45	40	22.3	25.6
1/4"	40	94	40	45	40	22.3	27.7





Dimensions (mm)

G	Α	В	C	D E		F	Н
3/8"	69	101	40	45	40	38	52
1/2"	75	104	40	45	40	40	52
3/4"	81.3	112	40	45	40	42.1	51.9
1"	87.9	119	40	45	40	51.5	60.9

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size		ssure / max	KV	Fluid Temperature		Seal	Weight
T-LAC2	\$8380	G	mm	bar	bar	lt/min	min	C max		(kg)
T-LAC2 100	S8380.00.018	1/8"	1.8	0	16	1.6	-10	160	VITON	0.2
T-LAC2 101	S8380.01.018	1/4"	1.8	0	16	1.6	-10	160	VITON	0.19
T-LAC2 102	S8380.02	3/8"	12	0.35	12	40	-10	80	NBR	0.42
T-LAC2 103	S8380.03	1/2"	12	0.35	12	58	-10	80	NBR	0.4
T-LAC2 104	S8380.04	3/4"	15	0.35	12	75	-10	80	NBR	0.6
T-LAC2 105	S8380.05	1"	15	0.35	12	90	-10	80	NBR	0.8

Useful Informations

1 bar:14,5 PSI:10 mH₂0:10 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