

2/2 Way  
Pilot Operated  
G 3/8", G 1/2", G 3/4", G 1", G 1 1/4", G 1 1/2", G 2"

### GENERAL FEATURES

- **New design product**
- **Full orifice solenoid valves**
- **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 pressure differential 0,35 bar and 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**
- **On request; flanged types**
- 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 : 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 and brass  
 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

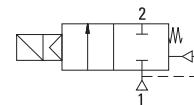
### TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time : 400 ms to ~ 1600 ms,  
 Closing Time : 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 25 bar  
 Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

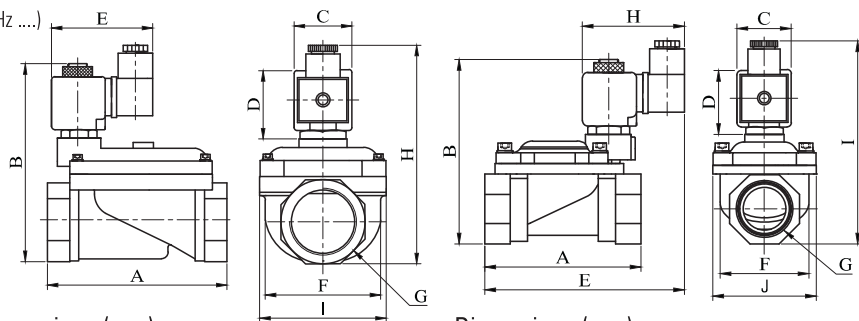
**NEW**

**Full Orifice**

**Normally Closed**



S1030 (N.C)



Dimensions (mm)

	G	A	B	C	D	E	F	I	H
1 1/4"	141	143	32	45	76	96.5	110.7	156	
1 1/2"	139	143	32	45	76	96.5	110.7	156	
2"	145.6	153	32	45	76	96.5	110.7	165.5	

Dimensions (mm)

	G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	76	112	
1/2"	69	97	32	45	106.5	40	52	76	112	
3/4"	81.3	107.9	32	45	115.8	42.1	52	76	121	
1"	87.9	115.3	32	45	122.4	51.5	60.9	76	127.5	

Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	KV	Fluid Temperature		Seal	Weight
			min	max			min	max		
<b>S1030</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>		<b>°C</b>			<b>(kg)</b>
S 1 0 3 0 . 0 2	3/8"	12.5	0.35	16	45		-10	80	NBR	0.68
S 1 0 3 0 . 0 3	1/2"	12.5	0.35	16	65		-10	80	NBR	0.64
S 1 0 3 0 . 0 4	3/4"	20	0.5	16	120		-10	80	NBR	0.66
S 1 0 3 0 . 0 5	1"	25	0.5	16	170		-10	80	NBR	0.8
S 1 0 3 0 . 0 6	1 1/4"	46	0.5	12	390		-10	80	NBR	2.65
S 1 0 3 0 . 0 7	1 1/2"	46	0.5	12	460		-10	80	NBR	2.55
S 1 0 3 0 . 0 8	2"	46	0.5	12	580		-10	80	NBR	2.98

### 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, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer