

GENERAL FEATURES

- 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 0,5 bar
- 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 operating; vertical with coil upwards preferred.
- Standard pipe connection is G(BSP) (ISO228-1) 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 : IP65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340-3 poles connectors (DIN 43650)
- Connector Specification : ISO4400 / EN 175301-803, Form A, Spade plug (Cable Ø6-8 mm)
- Electrical Safety : IEC335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V
For DC 12V, 24V, 48V, 110V

- 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

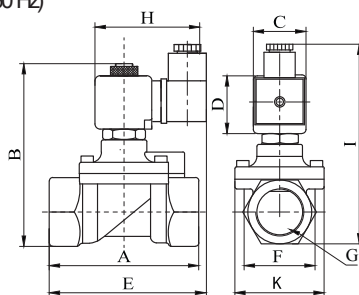
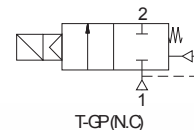
MATERIALS IN CONTACT WITH FLUID

- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; body nickel plated
- On request; sealing can be FPM (MTON), EPDM

TECHNICAL FEATURES

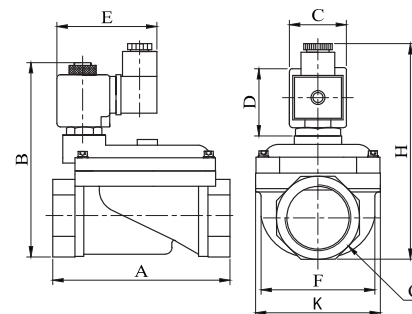
- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 25 bar
- Fluid Temperature for FPM (MTON) from -10°C, +160°C, for EPDM from -10°C, +140°C

Normally Closed



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	108	
1/2"	79	100	32	45	92	39.5	52	76	110	
3/4"	79	107.5	32	45	94	41.5	52	76	118	
1"	85	115	32	45	101	42.5	52	76	124	



Dimensions (mm)

	G	A	B	C	D	E	F	K	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	

Valve Type / Order no	Stock Code	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min / max	bar		min	max		
T-GP		G	mm	bar	bar	lt/min	min	max		(kg)
T-GP 102	10100202K125	3/8"	12.5	0.5	16	48	-10	80	NBR	0.68
T-GP 103	10100203K145	1/2"	14.5	0.5	16	70	-10	80	NBR	0.71
T-GP 104	10100204K170	3/4"	17	0.5	16	85	-10	80	NBR	0.8
T-GP 105	10100205K170	1"	17	0.5	16	90	-10	80	NBR	0.97
T-GP 106	10100206K460	1 1/4"	46	0.5	12	390	-10	80	NBR	2.65
T-GP 107	10100207K460	1 1/2"	46	0.5	12	460	-10	80	NBR	2.55
T-GP 108	10100208K460	2"	46	0.5	12	580	-10	80	NBR	2.98

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 (MTON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer