

B

GENERAL FEATURES

- New design
- **Very small body size.**
- **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
- Don't require any differential pressure
- **Compact and low weight valve enabling easy and quick installation**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 2 mounting holes at the bottom of the body.
- 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
- The 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

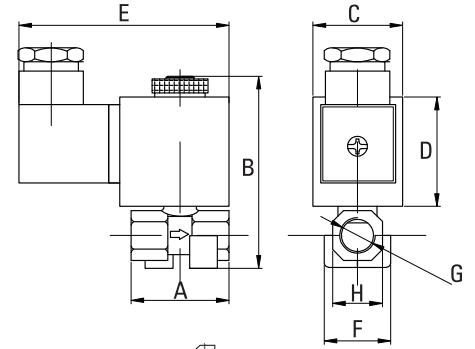
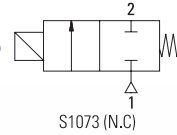
Body : Brass
 Internal Parts : Stainless Steel
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel and Brass
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)
 Response Time : Opening Time : 30 ms,
 Closing Time : 30 ms
 Maximum Allowable Pressure : 30 bar
 Fluid Temperature for FPM (VITON) from -10°C; +160°C,
 for EPDM from -10°C; +140°C

NEW
Small Body

Normally Closed



On request; solenoid valve can have 2 mounting holes at the bottom of the body.

Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	35.5	67	32	39	74.5	24.5	18	
1/4"	35.5	67	32	39	74.5	24.5	18	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GT	S1073	G	mm	bar	bar	lt/min	°C			(kg)
T-GT 100	S1073.00.018	1/8"	1.8	0	16	1.6	-10	80	NBR	0.31
T-GT 100.2,5	S1073.00.025	1/8"	2.5	0	12	3.2	-10	80	NBR	0.31
T-GT 100.3	S1073.00.030	1/8"	3	0	10	4.6	-10	80	NBR	0.31
T-GT 100.4	S1073.00.040	1/8"	4	0	9	6.4	-10	80	NBR	0.31
T-GT 100.4,5	S1073.00.045	1/8"	4.5	0	8	7.5	-10	80	NBR	0.31
T-GT 101	S1073.01.018	1/4"	1.8	0	16	1.6	-10	80	NBR	0.30
T-GT 101.2,5	S1073.01.025	1/4"	2.5	0	12	3.2	-10	80	NBR	0.30
T-GT 101.3	S1073.01.030	1/4"	3	0	10	4.6	-10	80	NBR	0.30
T-GT 101.4	S1073.01.040	1/4"	4	0	9	6.4	-10	80	NBR	0.30
T-GT 101.4,5	S1073.01.045	1/4"	4.5	0	8	7.5	-10	80	NBR	0.30

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

GENERAL FEATURES

- **Small body size.**
- **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
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 1 mounting hole at the bottom of the body.
- 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

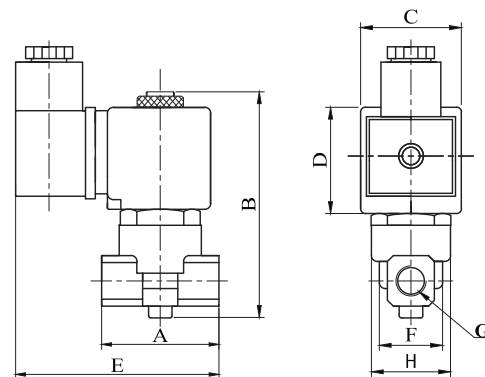
MATERIALS IN CONTACT WITH FLUID

Body : Brass
 Internal Parts : Stainless Steel
 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
 On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)
 Response Time : Opening Time : 30 ms,
 Closing Time : 30 ms
 Maximum Allowable Pressure : 30 bar
 Fluid Temperature for FPM (VITON)
 from -10°C; +160°C,
 for EPDM from -10°C; +140°C

Normally Closed



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	40	90	32	39	78	22.3	25.6	
1/4"	40	90	32	39	78	22.3	25.6	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GP	S1010	G	mm	bar	bar	lt/min	°C			(kg)
T-GP 100	S1010.00.018	1/8"	1.8	0	16	1.6	-10	80	NBR	0.36
T-GP 100.2	S1010.00.020	1/8"	2	0	15	2	-10	80	NBR	0.36
T-GP 100.2.2	S1010.00.022	1/8"	2.2	0	14	2.3	-10	80	NBR	0.36
T-GP 100.2.5	S1010.00.025	1/8"	2.5	0	12	3.2	-10	80	NBR	0.36
T-GP 100.3	S1010.00.030	1/8"	3	0	10	4.6	-10	80	NBR	0.36
T-GP 100.4	S1010.00.040	1/8"	4	0	9	6.4	-10	80	NBR	0.36
T-GP 100.5	S1010.00.050	1/8"	5	0	7	9.2	-10	80	NBR	0.36
T-GP 100.6	S1010.00.060	1/8"	6	0	5	11	-10	80	NBR	0.36
T-GP 101	S1010.01.018	1/4"	1.8	0	16	1.6	-10	80	NBR	0.35
T-GP 101.2	S1010.01.020	1/4"	2	0	15	2	-10	80	NBR	0.35
T-GP 101.2.2	S1010.01.022	1/4"	2.2	0	14	2.3	-10	80	NBR	0.35
T-GP 101.2.5	S1010.01.025	1/4"	2.5	0	12	3.2	-10	80	NBR	0.35
T-GP 101.3	S1010.01.030	1/4"	3	0	10	4.6	-10	80	NBR	0.35
T-GP 101.4	S1010.01.040	1/4"	4	0	9	6.4	-10	80	NBR	0.35
T-GP 101.5	S1010.01.050	1/4"	5	0	7	9.2	-10	80	NBR	0.35
T-GP 101.6	S1010.01.060	1/4"	6	0	5	11	-10	80	NBR	0.35

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

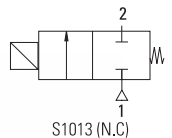
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GENERAL FEATURES

- **Small body size.**
- **High working pressure for connections 1/8" and 1/4"**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature : -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 1 mounting hole at the bottom of the body.
- 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))

Normally Closed

High Pressure



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

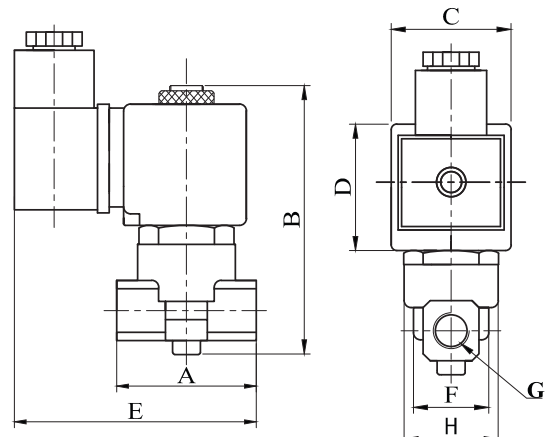
- Other voltages on request;
- Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : FPM (VITON)
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body
- On request; sealing can be, EPDM or NBR
- On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time : 30 ms, Closing Time: 30 ms
- Maximum Allowable Pressure : 100 bar
- Fluid Temperature for EPDM from -10°C; +140°C,
for NBR from -10°C; +80°C



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	40	90	32	39	78	22.3	25.6	
1/4"	40	90	32	39	78	22.3	25.6	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GH 100.1	S1013.00.010	G	mm			lt/min				
T-GH 100.1,8	S1013.00.018	1/8"	1	0	100	0.6	-10	160	VITON	0.36
T-GH 100.1,8	S1013.00.018	1/8"	1.8	0	50	1.6	-10	160	VITON	0.36
T-GH 100.2,5	S1013.00.025	1/8"	2.5	0	20	3.2	-10	160	VITON	0.36
T-GH 101.1	S1013.01.010	1/4"	1	0	100	0.6	-10	160	VITON	0.35
T-GH 101.1,8	S1013.01.018	1/4"	1.8	0	50	1.6	-10	160	VITON	0.35
T-GH 101.2,5	S1013.01.025	1/4"	2.5	0	20	3.2	-10	160	VITON	0.35

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: FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer, NBR : Nitrile-Butylene Elastomer

GENERAL FEATURES

- **TORK series S1060, S1082 and S1065 direct acting solenoid valves are 2/2 way and 3/2 way normally closed and have small-compact body size.**
- **Low coil power (5,5 W for DC, 6 - 8,5 VA form AC) and current**
- **Suitable for non-aggressive liquids (water, light oil (2E), diesel oil etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature : -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- 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).
- Some applications; welding equipments
- 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 micro plug connectors (DIN 43650)
- 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

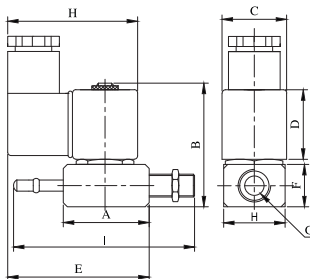
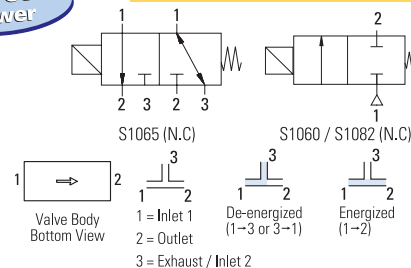
- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : FPM (VITON)
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body

TECHNICAL FEATURES

Max Viscosity : 5"E (~37cSt or mm²/s)
Response Time : Opening Time :30 ms, Closing Time: 30 ms,
Maximum Allowable Pressure : 30 bar

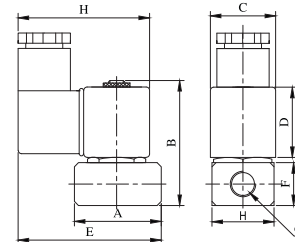
Low Coil Power

Normally Closed



Dimensions (mm) (S1082)

G	A	B	C	D	E	F	H	I
1/8"	35	56	22	29.4	66.7	18.9	19.9	72.5
1/4"	35	56	22	29.4	66.7	18.9	19.9	72.5



Dimensions (mm) (S1060 and S1065)

G	A	B	C	D	E	F	H
1/8"	35	56	22	29.4	66.7	18.9	19.9
1/4"	35	56	22	29.4	66.7	18.9	19.9

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight	
T-MI / T-MIÖ T-MI.3W	S1060 / S1082 S1065	G	mm	bar	bar	min °C max		(kg)	
T-MI 100	S1060.00.018	1/8"	1.8	0	16	-10	160	VITON	0.2
T-MI 100.2,5	S1060.00.025	1/8"	2.5	0	10	-10	160	VITON	0.2
T-MI 100.3	S1060.00.030	1/8"	3	0	6	-10	160	VITON	0.2
T-MI 100.4	S1060.00.040	1/8"	4	0	2.5	-10	160	VITON	0.2
T-MI 101	S1060.01.018	1/4"	1.8	0	16	-10	160	VITON	0.19
T-MI 101.2,5	S1060.01.025	1/4"	2.5	0	10	-10	160	VITON	0.19
T-MI 101.3	S1060.01.030	1/4"	3	0	6	-10	160	VITON	0.19
T-MI 101.4	S1060.01.040	1/4"	4	0	2.5	-10	160	VITON	0.19
T-MIÖ 101	S1082.01.018	1/4"	1.8	0	16	-10	160	VITON	0.21
T-MI.3W 101	S1065.01.018	1/4"	1.8	0	16	-10	160	VITON	0.19

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: FPM (VITON) : Fluoro-Carbon Elastomer

B

GENERAL FEATURES

- Small body size.
- New design, internal exhaust system
- 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
- Don't require any differential pressure
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- On request; solenoid valve can have 1 mounting holes at the bottom of the body.
- These solenoid valves are 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
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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

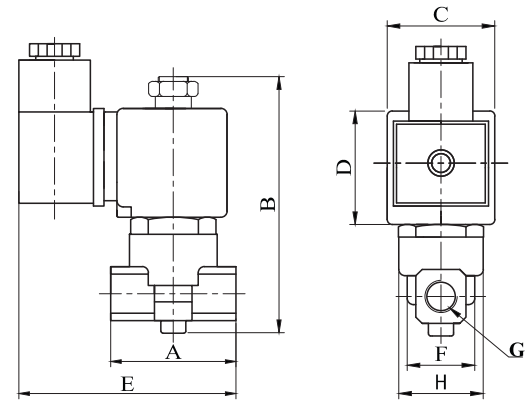
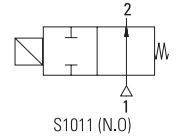
MATERIALS IN CONTACT WITH FLUID

Body : Brass
 Internal Parts : Stainless Steel
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel and Brass
 Springs : Stainless Steel
 On request; nickel plated body
 On request; internal parts can be stainless Steel.
 On request; sealing can be FPM (VITON), EPDM
 On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)
 Response Time : Opening Time: 30 ms,
 Closing Time: 30 ms
 Maximum Allowable Pressure : 20 bar
 Fluid Temperature for FPM (VITON)
 from -10°C; +160°C, for EPDM from -10°C; +140°C

Normally Open



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	40	90	32	39	78	22.3	25.6	
1/4"	40	90	32	39	78	22.3	25.6	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GN	S1011	G	mm	bar	bar	lt/min	min	max		(kg)
T-GN 100	S1011.00.018	1/8"	1.8	0	12	1.6	-10	80	NBR	0.38
T-GN 100.2	S1011.00.020	1/8"	2	0	11	2	-10	80	NBR	0.38
T-GN 100.2,2	S1011.00.022	1/8"	2.2	0	10	2.3	-10	80	NBR	0.38
T-GN 100.2,5	S1011.00.025	1/8"	2.5	0	10	3.2	-10	80	NBR	0.38
T-GN 100.3	S1011.00.030	1/8"	3	0	5	4.6	-10	80	NBR	0.38
T-GN 101	S1011.01.018	1/4"	1.8	0	12	1.6	-10	80	NBR	0.37
T-GN 101.2	S1011.01.020	1/4"	2	0	11	2	-10	80	NBR	0.37
T-GN 101.2,2	S1011.01.022	1/4"	2.2	0	10	2.3	-10	80	NBR	0.37
T-GN 101.2,5	S1011.01.025	1/4"	2.5	0	10	3.2	-10	80	NBR	0.37
T-GN 101.3	S1011.01.030	1/4"	3	0	5	4.6	-10	80	NBR	0.37

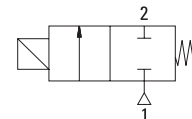
Useful Informations

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

GENERAL FEATURES

- **New design**
- **Small body size.**
- **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
- Don't require any differential pressure
- **Compact and low weight valve enabling easy and quick installation**
- 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))

Normally Closed



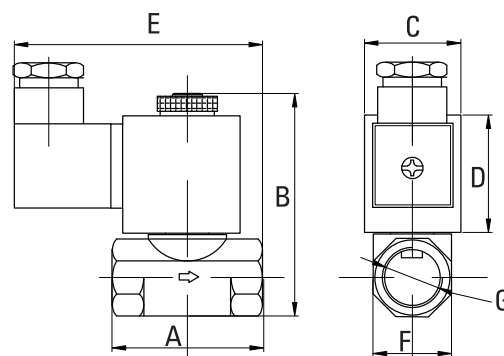
S1073 (N.C)



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 -100°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, 24, 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
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel and Brass
- Springs : Stainless Steel
- On request; nickel plated body
- On request; sealing can be FPM (VITON),EPDM

TECHNICAL FEATURES

- Max Viscosity : 5°E (-37cSt or mm²/s)
- Response Time : Opening Time : 30 ms,
Closing Time: 30 ms
- Maximum Allowable Pressure: 30 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°C,
for EPDM from -10°C; +140°C

Dimensions (mm)

	G	A	B	C	D	E	F
3/8"	50	73	32	39	82.5	26.5	
1/2"	50	73	32	39	82.5	26.5	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GT	S1073	G	mm	bar	bar	lt/min	°C			(kg)
T-GT 102.3	S1073.02.030	3/8"	3	0	10	4.6	-10	80	NBR	0.40
T-GT 102.4	S1073.02.040	3/8"	4	0	9	6.4	-10	80	NBR	0.40
T-GT 102.5	S1073.02.050	3/8"	5	0	7	9.2	-10	80	NBR	0.40
T-GT 103.3	S1073.03.030	1/2"	3	0	10	4.6	-10	80	NBR	0.38
T-GT 103.4	S1073.03.040	1/2"	4	0	9	6.4	-10	80	NBR	0.38
T-GT 103.5	S1073.03.050	1/2"	5	0	7	9.2	-10	80	NBR	0.38

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

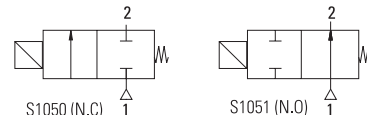
B

GENERAL FEATURES

- Large orifice option
- Internal exhaust system (for normally open)
- TORK series S1050 (N.C) and S1051 (N.O) direct acting solenoid valves are 2/2 way normally closed and normally open
- 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
- Don't require any differential pressure
- Easy and quick installation
- 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))

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

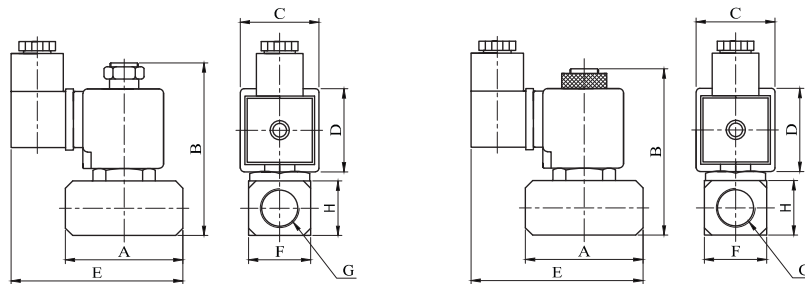
- Other voltages on request;
- Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body
- On request; internal parts can be Stainless Steel.
- On request; sealing can be FPM (VITON), EPDM
- On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

- Max Viscosity : 5"E (-37cSt or mm²/s)
- Response Time : Opening Time : 30 ms
Closing Time : 30 ms
- Maximum Allowable Pressure : 15 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C



Dimensions (mm) (S1051)

G	A	B	C	D	E	F	H
1/2"	50	80.5	32	38.9	79.5	25	25

Dimensions (mm) (S1050)

G	A	B	C	D	E	F	H
3/8"	50	80.5	32	38.9	79.5	25	25
1/2"	50	80.5	32	38.9	79.5	25	25

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight	
T-GD / T-GDN	S1050 / S1051	G	mm	bar	bar	min °C max		(kg)	
T-GD 102.5	S1050.02.050	3/8"	5	0	7	9.2	-10 80	NBR	0.48
T-GD 102.6	S1050.02.060	3/8"	6	0	6	11	-10 80	NBR	0.48
T-GD 102.7	S1050.02.070	3/8"	7	0	5	12.4	-10 80	NBR	0.48
T-GD 102.8	S1050.02.080	3/8"	8	0	3	13.5	-10 80	NBR	0.48
T-GD 102.9	S1050.02.090	3/8"	9	0	2	16	-10 80	NBR	0.48
T-GD 102.10	S1050.02.100	3/8"	10	0	1	19	-10 80	NBR	0.48
T-GD 103.5	S1050.03.050	1/2"	5	0	7	9.2	-10 80	NBR	0.47
T-GD 103.6	S1050.03.060	1/2"	6	0	6	11	-10 80	NBR	0.47
T-GD 103.7	S1050.03.070	1/2"	7	0	5	12.4	-10 80	NBR	0.47
T-GD 103.8	S1050.03.080	1/2"	8	0	3	13.5	-10 80	NBR	0.47
T-GD 103.9	S1050.03.090	1/2"	9	0	2	16	-10 80	NBR	0.47
T-GD 103.10	S1050.03.100	1/2"	10	0	1	19	-10 80	NBR	0.47
T-GDN 103.2,5	S1051.03.025	1/2"	2.5	0	10	3.2	-10 80	NBR	0.49
T-GDN 105.2,5	S1051.05.025	1"	2.5	0	10	3.2	-10 80	NBR	0.49

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

GENERAL FEATURES

- New and special design for vacuum applications
- TORK series S1087 / S1088 direct acting solenoid valves are 2/2 way and 3/2 way normally closed and have small body size.
- Suitable non-aggressive fluids
- Working Temperature : -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- Don't require any differential pressure
- Compact and low weight valve enabling easy and quick installation
- 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.

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

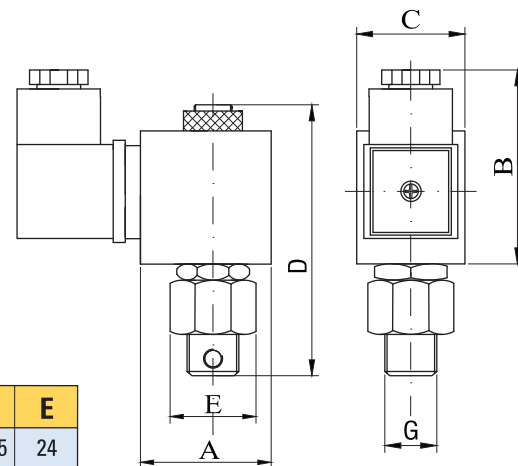
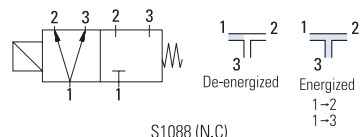
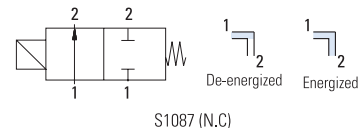
- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body

TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time :30 ms,
Closing Time : 30 ms
- Maximum Allowable Pressure : 2 bar

Vacuum Applications

Normally Closed



Dimensions (mm)

G	A	B	C	D	E
3/8"	39	56	32	80.5	24

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	max		
T-GE / T-GE.3W	S1087 / S1088	G	mm	bar	bar	lt/min	min	max		(kg)
T-GE 119	S1087.19.060	3/8"	6	0	1	7	-10	80	NBR	0.41
T-GE.3W 119	S1088.19.025	3/8"	2.5	0	1	3.2	-10	80	NBR	0.53

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

B

GENERAL FEATURES

- **Small body size.**
- **Valves used on especially exhaust systems and pneumatic control systems, valves control**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature: -10°C / +80°C
- **On request; top exhaust with 1 mm, 1,8 mm and 2,5 mm orifice**
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- **On request; solenoid valve can have 1 mounting hole at the bottom of the body.**
- 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

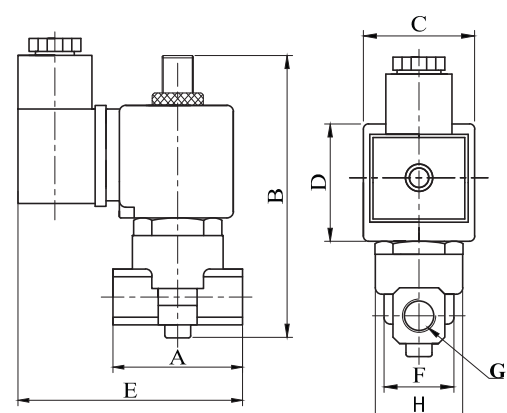
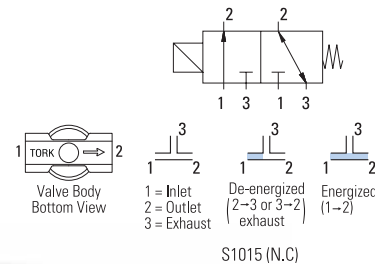
MATERIALS IN CONTACT WITH FLUID

- Body : Brass
- Internal Parts : Stainless Steel
- 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
- On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

- Max Viscosity : 5°E (-37cSt or mm²/s)
- Response Time : Opening Time:30 ms,
Closing Time : 30 ms
- Maximum Allowable Pressure: 20 bar
- Fluid Temperature for FPM (VITON)
from -10°C; +160°C, for EPDM from -10°C; +140°C

Normally Closed



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	40	102	32	39	78	22.3	25.6	
1/4"	40	102	32	39	78	22.3	25.6	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max			KV	Fluid Temperature		Seal	Weight
				bar	bar Liquid	bar Air		min °C	max		
T-G.3W	S1015	G	mm	bar	bar Liquid	bar Air	lt/min	min	max		(kg)
T-G.3W 100	S1015.00.018	1/8"	1.8	0	6	6	1-2=1,35, 2-3=1,35	-10	80	NBR	0.37
T-G.3W 100,2,5	S1015.00.025	1/8"	2.5	0	2	2	1-2=2,7, 2-3=1,35	-10	80	NBR	0.37
T-G.3W 101	S1015.01.018	1/4"	1.8	0	6	6	1-2=1,35, 2-3=1,35	-10	80	NBR	0.36
T-G.3W 101,2,5	S1015.01.025	1/4"	2.5	0	2	2	1-2=2,7, 2-3=1,35	-10	80	NBR	0.36

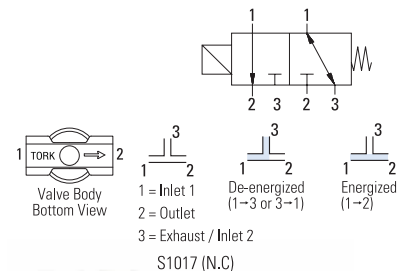
Useful Informations

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

GENERAL FEATURES

- **Small body size.**
- **Inlet on the top (for de-energized)**
- **Valves used on especially exhaust systems and pneumatic control systems**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, iner gases etc...)**
- Working Temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- **On request; solenoid valve can have 1 mounting hole at the bottom of the body.**
- 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))

Normally Closed



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

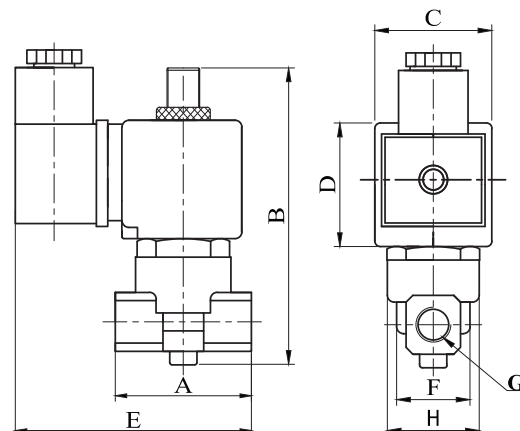
Other voltages on request;
Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
Frequency : 50 Hz, other frequencies on request; (60 Hz)
On request; connector with LED
Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

Body : Brass
Internal Parts : Stainless Steel
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
On request; seat Stainless Steel (for overheated water and steam)

TECHNICAL FEATURES

Max Viscosity : 5°E (-37cSt or mm²/s)
Response Time : Opening Time:30 ms, Closing Time : 30 ms
Maximum Allowable Pressure: 24 bar
Fluid Temperature for FPM (VITON) from -10°C; +160°C,
for EPDM from -10°C; +140°C



Dimensions (mm)

G	A	B	C	D	E	F	H
1/4"	40	102	32	39	78	22.3	25.6
1/8"	40	102	32	39	78	22.3	25.6

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max			KV	Fluid Temperature		Seal	Weight
				bar	bar	bar		min	max		
T-GT.3W	S1017	G	mm	bar	bar	bar	lt/min	°C			(kg)
					Liquid	Air		min	max		
T-GT.3W 100	S1017.00.010	1/8"	1	0	8	16	3-2=0,5 , 1-2=1,35	-10	80	NBR	0.36
T-GT.3W 100.1,8	S1017.00.018	1/8"	1.8	0	2	14	1-2=1,35 , 2-3=1,35	-10	80	NBR	0.36
T-GT.3W 100.2,5	S1017.00.025	1/8"	2.5	0	1	10	1-2=2,7 , 2-3=1,35	-10	80	NBR	0.36
T-GT.3W 101	S1017.01.010	1/4"	1	0	8	16	3-2=0,5 , 1-2=1,35	-10	80	NBR	0.36
T-GT.3W 101.1,8	S1017.01.018	1/4"	1.8	0	2	14	1-2=1,35 , 2-3=1,35	-10	80	NBR	0.36
T-GT.3W 101.2,5	S1017.01.025	1/4"	2.5	0	1	10	1-2=2,7 , 2-3=1,35	-10	80	NBR	0.36

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

B

GENERAL FEATURES

- **TORK series S1018 (N.C and N.O) direct acting solenoid valves are 3/2 way normally closed - normally open and have small body size.**
- **Solenoid valves with three ports in body enabling convenient installation**
- **This valves can use especially on exhaust systems and pneumatic control systems**
- **On request; high pressure**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature : -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling and quick installation
- 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 : 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

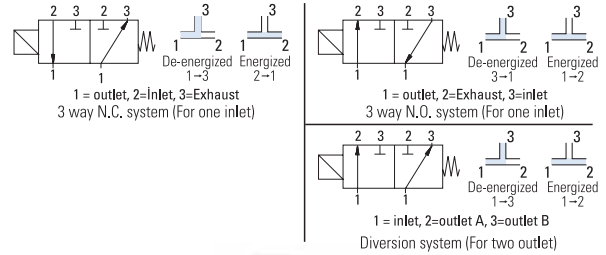
MATERIALS IN CONTACT WITH FLUID

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

TECHNICAL FEATURES

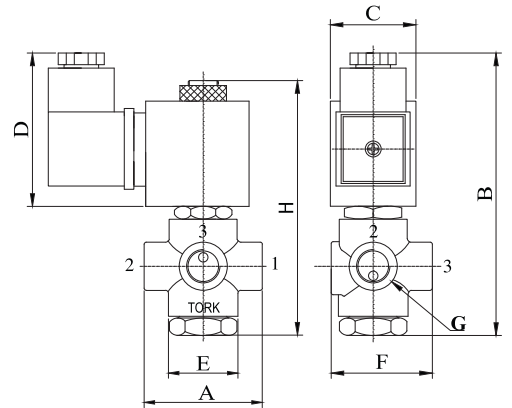
- Max Viscosity : 5°E (-37cSt or mm²/s)
- Response Time : Opening Time :30 ms
Closing Time :30 ms
- Maximum Allowable Pressure : 20 bar
- Fluid Temperature for NBR from -10°C; +80°C,
for EPDM from -10°C; +140°C

Three Port



Normally Closed

Normally Open



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	44.2	105.5	32	57.3	26	37.8	95.2	
1/4"	44.2	105.5	32	57.3	26	37.8	95.2	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure (for air)				KV	Fluid Temperature		Seal	Weight
				Min. Bar	Max. Bar	N.C System	N.O System		Diversion System	min °C		
T-GY.3W	S5018	G	mm					lt/min				(kg)
T-GY.3W 100	S1018.00.018	1/8"	1.8	0	4	7	16	1.5	-10	160	VITON	0.44
T-GY.3W 100.2,5	S1018.00.025	1/8"	2.5	0	3	4	12	3	-10	160	VITON	0.44
T-GY.3W 100.3,5	S1018.00.035	1/8"	3.5	0	1	5	10	5	-10	160	VITON	0.44
T-GY.3W 101	S1018.01.018	1/4"	1.8	0	4	7	16	1.5	-10	160	VITON	0.43
T-GY.3W 101.2,5	S1018.01.025	1/4"	2.5	0	3	4	12	3	-10	160	VITON	0.43
T-GY.3W 101.3,5	S1018.01.035	1/4"	3.5	0	1	2	10	5	-10	160	VITON	0.43

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

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 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

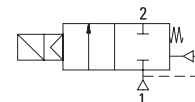
MATERIALS IN CONTACT WITH FLUID

- 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

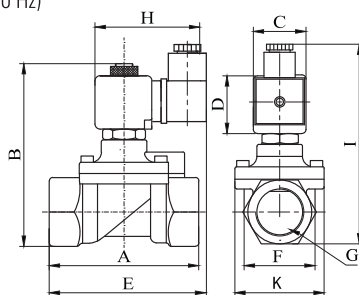
TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or 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 (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

Normally Closed

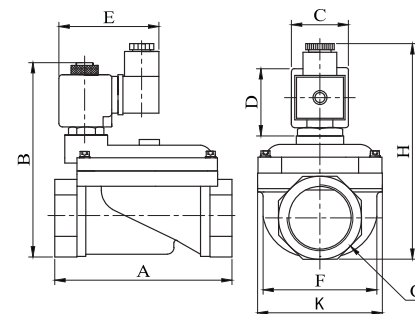


S1010 (N.C)



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
11/4"	141	143	32	45	76	96.5	110.7	156
11/2"	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	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GP	S1010	G	mm	bar	bar	lt/min	min °C	max		(kg)
T-GP 102	S1010.02	3/8"	12.5	0.5	16	48	-10	80	NBR	0.68
T-GP 103	S1010.03	1/2"	14.5	0.5	16	70	-10	80	NBR	0.71
T-GP 104	S1010.04	3/4"	17	0.5	16	85	-10	80	NBR	0.8
T-GP 105	S1010.05	1"	17	0.5	16	90	-10	80	NBR	0.97
T-GP 106	S1010.06	11/4"	46	0.5	12	390	-10	80	NBR	2.65
T-GP 107	S1010.07	11/2"	46	0.5	12	460	-10	80	NBR	2.55
T-GP 108	S1010.08	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 (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer

B

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

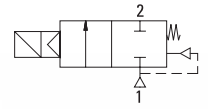
TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or 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 (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

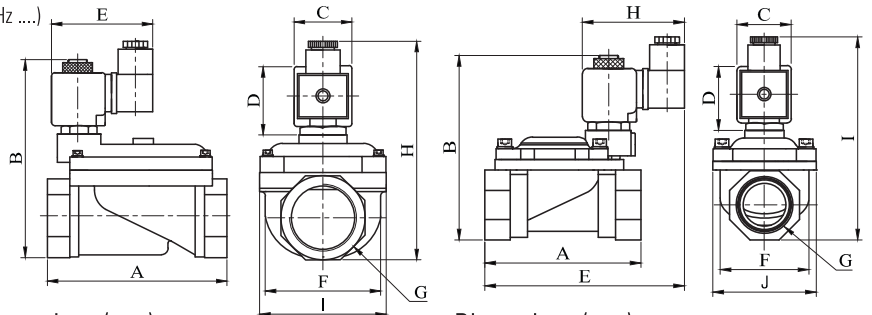
NEW

Full Orifice

Normally Closed



S1030 (N.C)



Dimensions (mm)

G	A	B	C	D	E	F	I	H
11/4"	141	143	32	45	76	96.5	110.7	156
11/2"	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	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GL	S1030	G	mm	bar	bar	lt/min	min	max		(kg)
T-GL 102	S1030.02	3/8"	12.5	0.35	16	45	-10	80	NBR	0.68
T-GL 103	S1030.03	1/2"	12.5	0.35	16	65	-10	80	NBR	0.64
T-GL 104	S1030.04	3/4"	20	0.5	16	120	-10	80	NBR	0.66
T-GL 105	S1030.05	1"	25	0.5	16	170	-10	80	NBR	0.8
T-GL 106	S1030.06	1 1/4"	46	0.5	12	390	-10	80	NBR	2.65
T-GL 107	S1030.07	1 1/2"	46	0.5	12	460	-10	80	NBR	2.55
T-GL 108	S1030.08	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 (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer

GENERAL FEATURES

- High working pressure for connections 3/8", 1/2", 3/4" and 1"
- Suitable for non-aggressive liquids (water, light oil (2E), fuel oil, hydraulic oil, diesel oil, etc...), gaseous fluids (iner gases etc...).
- Working Temperature : -10°C / +160°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
- 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

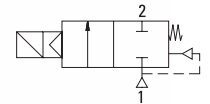
- Body : Brass
 Internal Parts : Stainless Steel and brass
 Sealing : FPM (VITON) + PTFE
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be, EPDM or NBR

TECHNICAL FEATURES

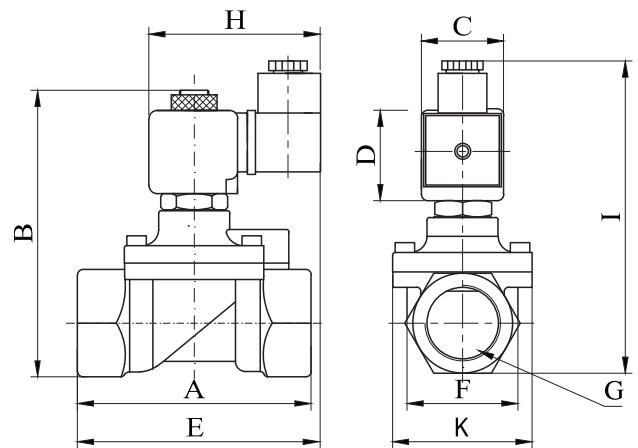
- Max Viscosity : 5°E (~37cSt or mm²/s)
 Response Time : Opening Time: 400 ms to ~ 1600 ms,
 Closing Time : 1000 ms to ~ 2000 ms
 Maximum Allowable Pressure : 60 bar
 Fluid Temperature for EPDM from -10°C; +140°C, for NBR from -10°C; +80°C

Normally Closed

High Pressure



S1013 (N.C)



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	39,8	52	76	110	
3/4"	79	107,3	32	45	94	41,5	52	76	118	
1"	85	115	32	45	96	42,5	52	76	124	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GH	S1013	G	mm	bar	bar	lt/min	°C			(kg)
T-GH 102	S1013.02	3/8"	12.5	0.5	40	48	-10	160	PTFE + VITON	0.69
T-GH 103	S1013.03	1/2"	14.5	0.5	40	70	-10	160	PTFE + VITON	0.73
T-GH 104	S1013.04	3/4"	17	0.5	40	85	-10	160	PTFE + VITON	0.81
T-GH 105	S1013.05	1"	17	0.5	40	90	-10	160	PTFE + VITON	0.98

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: FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer, PTFE : Polytetrafluorethylene, NBR : Nitrile-Butylene Elastomer

B

GENERAL FEATURES

- Especially for air
- High working pressure for connections 3/8", 1/2", 3/4" and 1"
- 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
- 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

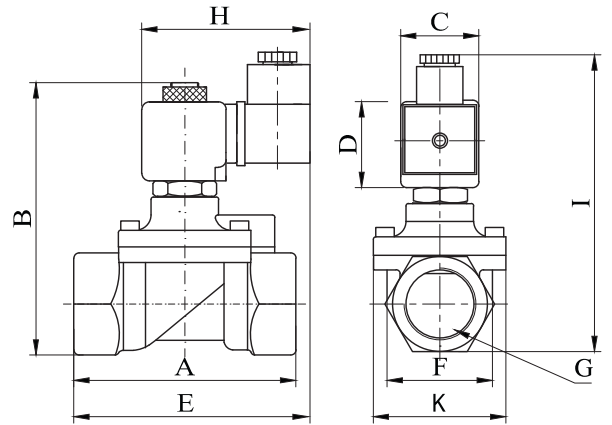
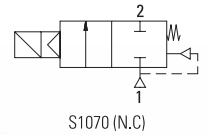
Body : Brass
 Internal Parts : Stainless Steel and brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be, EPDM and FPM (VITON)

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 : 60 bar
 Fluid Temperature for EPDM from -10°C; +140°C, for FPM (VITON) from -10°C; +160°C

Especially For Air
 High Pressure

Normally Closed



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	74	97	32	45	91.3	37.5	52	76	108	
1/2"	79	100	32	45	92	39.8	52	76	110	
3/4"	79	107.3	32	45	94	41.5	52	76	118	
1"	85	115	32	45	96	42.5	52	76	124	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GH1	S1070	G	mm	bar	bar	lt/min	min °C	max		(kg)
T-GH1 102	S1070.02	3/8"	12.5	0.5	40	48	-10	80	NBR	0.69
T-GH1 103	S1070.03	1/2"	12.5	0.5	40	65	-10	80	NBR	0.73
T-GH1 104	S1070.04	3/4"	12.5	0.5	40	72	-10	80	NBR	0.81
T-GH1 105	S1070.05	1"	12.5	0.5	40	76	-10	80	NBR	0.98

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: FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer, NBR : Nitrile-Butylene Elastomer

GENERAL FEATURES

- **Small-Compact body size.**
- **Low coil power (5,5 W for DC, 6 - 8,5VA form AC) and current**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases, natural 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 bar**
- Compact and low weight valve enabling easy and quick installation
- 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.
- 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 micro plug connectors (DIN 43650)
 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

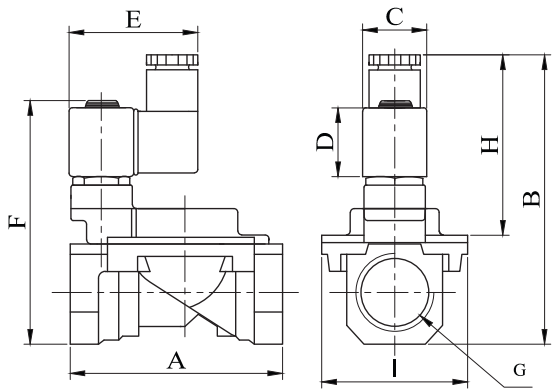
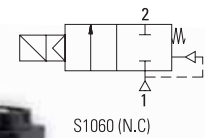
- Body : Brass
 Internal Parts : Stainless Steel and brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Brass
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be FPM (VITON), EPDM

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 : 20 bar
 Fluid Temperature for FPM (VITON) from -10°C; +160°C, for
 EPDM from -10°C; +140°C

Low Coil Power

Normally Closed



Dimensions (mm)

	G	A	B	C	D	E	F	I	H
3/8"	58	98	20.9	29	60	83	43	64.1	
1/2"	58	98	20.9	29	60	83	43	64.1	
3/4"	63	105	20.9	29	60	83	43	64.1	
1"	69	112	20.9	29	60	83	43	64.1	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight		
T-MI	S1060	G	mm	bar	bar	lt/min	min °C	max	(kg)	
T-MI 102	S1060.02	3/8"	12	0.35	12	40	-10	80	NBR	0.42
T-MI 103	S1060.03	1/2"	12	0.35	12	58	-10	80	NBR	0.4
T-MI 104	S1060.04	3/4"	15	0.35	12	75	-10	80	NBR	0.6
T-MI 105	S1060.05	1"	15	0.35	12	90	-10	80	NBR	0.8

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

B

GENERAL FEATURES

- **New design**
- **Full orifice solenoid valves**
- **2 1/2" and 3" connection**
- TORK series S1030 (N.C) and S1033 (N.C) diaphragm solenoid valves are 2/2 way normally closed and pilot operated
- **Suitable for water and air.**
- 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
 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 Ø6-8 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

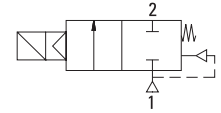
MATERIALS IN CONTACT WITH FLUID

Body : Cast Iron
 Internal Parts : Stainless Steel and brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel

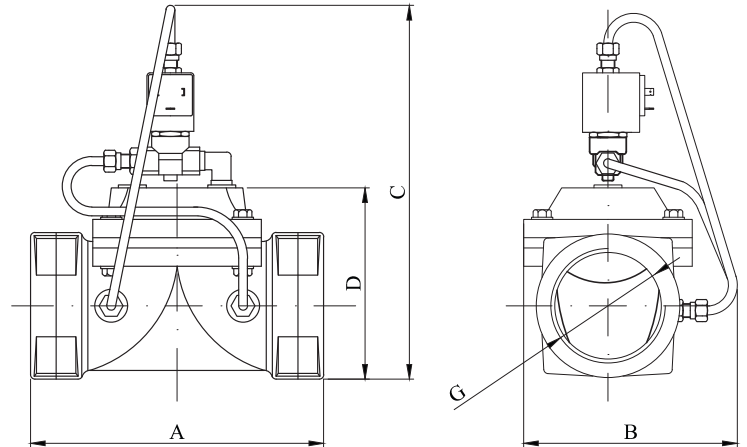
TECHNICAL FEATURES

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 (for T-GLH)
 10 bar (for T-GL)

Normally Closed



S1030 and S1033 (N.C)



G	A	D	B	C
2 1/2"	200	125	155	260
3"	210	150	155	285

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	max		
T-GL / T-GLH	S1030 / S1033	G	mm	bar	bar	lt/min	min	max °C		(kg)
T-GL 109	S1030.09	2 1/2"	72,8	1	6	1266	-10	80	NBR	6
T-GL 110	S1030.10	3"	85,4	1	6	2333	-10	80	NBR	10.3
T-GLH 109	S1033.09	2 1/2"	72,8	1,5	16	1266	-10	80	NBR	6
T-GLH 110	S1033.10	3"	85,4	1,5	16	2333	-10	80	NBR	10.3

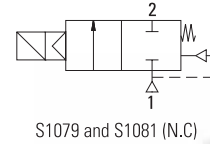
Useful Informations

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, Cv:1,16 Kv, 0°C:89,6 F
 Sealings:NBR:Nitrile-Butylene Elastomer

GENERAL FEATURES

- **New design**
- **Full orifice flanged solenoid valves**
- **3", 4", 6" and 8" connection**
- TORK series S1079(N.C) and S1081 (N.C) diaphragm solenoid valves are 2/2 way normally closed and pilot operated
- **Suitable for water and air.**
- 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))

Normally Closed



S1079 and S1081 (N.C)



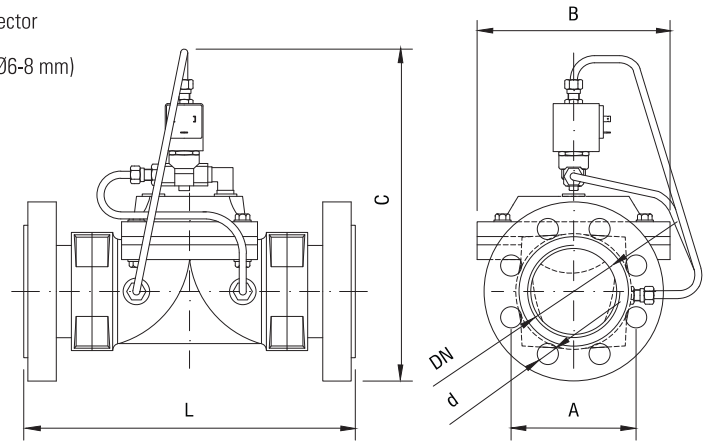
ELECTRICAL CHARACTERISTICS

- 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 Ø6-8 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 : Cast Iron
- Internal Parts : Stainless Steel and brass
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel



DN	L	C	B	A	d
80	300	340	208	160	18
100	305	365	208	180	18
150	390	450	300	240	22
200	475	550	385	295	22

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 (for S1081)
10 bar (for S1079)

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size (D)	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GLF / T-GLFH	S1079 / S1081	DN	mm	bar	bar	lt/min	min °C	max		(kg)
T-GLF 110	S1079.10	80	80	1	6	3380	-10	80	NBR	20.7
T-GLF 112	S1079.12	100	100	1	6	3610	-10	80	NBR	22.3
T-GLF 118	S1079.18	150	150	1	6	7450	-10	80	NBR	54.2
T-GLF 120	S1079.20	200	200	1	6	14600	-10	80	NBR	84.9
T-GLFH 110	S1081.10	80	80	1,5	16	3380	-10	80	NBR	20.7
T-GLFH 112	S1081.12	100	100	1,5	16	3610	-10	80	NBR	22.3
T-GLFH 118	S1081.18	150	150	1,5	16	7450	-10	80	NBR	54.2
T-GLFH 120	S1081.20	200	200	1,5	16	14600	-10	80	NBR	84.9

Useful Informations

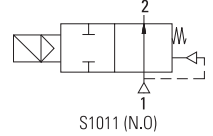
1 bar:14,5 PSI:10 mH₂O:10 N/cm²:1 kg/cm²:100000 Pa, 1 PSI:69 mbar,1 m³/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m³/h, Cv:1,16 Kv, 0°C:89,6 F
Sealings:NBR:Nitrile-Butylene Elastomer

B

GENERAL FEATURES

- New design, internal exhaust system
- 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
- 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))

Normally Open



NEW



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

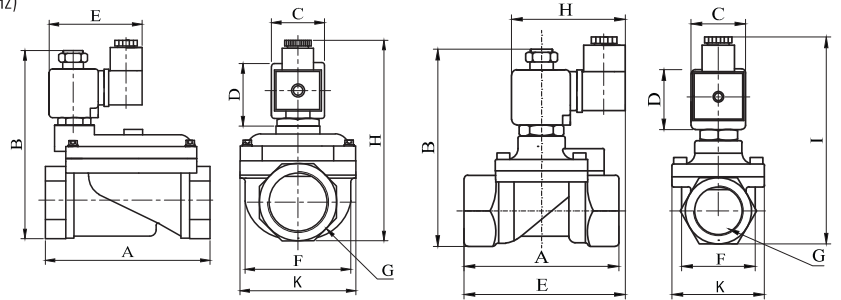
- Other voltages on request;
- Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID

- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel and Brass
- Springs : Stainless Steel
- On request; nickel plated body
- On request; internal parts can be Stainless Steel.
- On request; sealing can be FPM (VITON), 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 : 20 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C



Dimensions (mm)

G	A	B	C	D	E	F	K	H
11/4"	141	143	32	45	73.4	96.5	110.7	156
11/2"	139	143	32	45	73.4	96.5	110.7	156
2"	145.6	153	32	45	73.4	96.5	110.7	165.5

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"	87	115	32	45	102	42.5	52	76	124

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GN	S1011	G	mm	bar	bar	lt/min	min	max		(kg)
T-GN 102	S1011.02	3/8"	12.5	0.5	12	48	-10	80	NBR	0.69
T-GN 103	S1011.03	1/2"	14.5	0.5	12	70	-10	80	NBR	0.72
T-GN 104	S1011.04	3/4"	17	0.5	12	85	-10	80	NBR	0.81
T-GN 105	S1011.05	1"	17	0.5	12	90	-10	80	NBR	0.98
T-GN 106	S1011.06	1 1/4"	46	0.5	10	390	-10	80	NBR	2.66
T-GN 107	S1011.07	1 1/2"	46	0.5	10	460	-10	80	NBR	2.56
T-GN 108	S1011.08	2"	46	0.5	10	580	-10	80	NBR	2.99

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

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 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

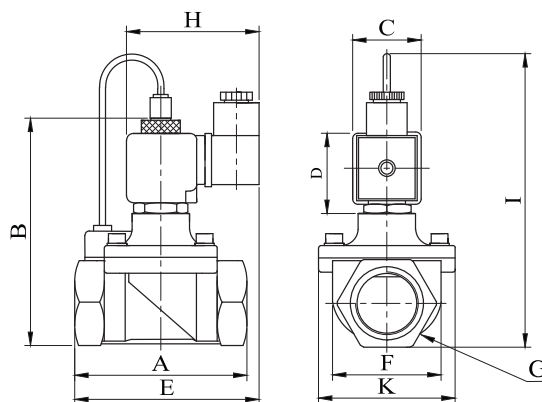
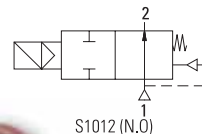
MATERIALS IN CONTACT WITH FLUID

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

Normally Open



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	124	
1/2"	79	100	32	45	92	39.5	52	76	128	
3/4"	79	107.5	32	45	94	41.5	52	76	134	
1"	85	115	32	45	101	42.5	52	76	143.5	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight		
T-GPA	S1012	G	mm	bar	bar	lt/min	min °C	max °C	(kg)	
T-GPA 102	S1012.02	3/8"	12.5	0.5	16	48	-10	80	NBR	0.7
T-GPA 103	S1012.03	1/2"	14.5	0.5	16	70	-10	80	NBR	0.73
T-GPA 104	S1012.04	3/4"	17	0.5	16	85	-10	80	NBR	0.81
T-GPA 105	S1012.05	1"	17	0.5	16	90	-10	80	NBR	0.99

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

B

GENERAL FEATURES

- **New design, internal exhaust system**
- **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 differential pressure 0,35 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**
- 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

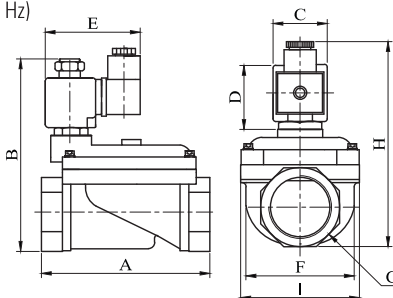
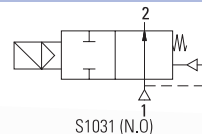
- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body
- On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 20 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

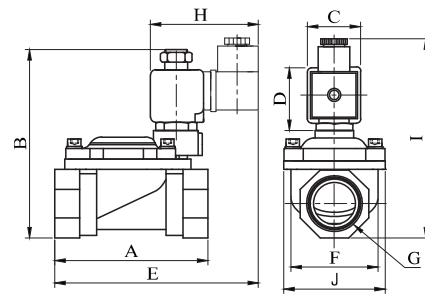
NEW
Full Orifice

Normally Open



Dimensions (mm)

G	A	B	C	D	E	F	I	H
11/4"	141	143	32	45	76	96.5	110.7	156
11/2"	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	38	52	76	112
3/4"	81.3	107.5	32	45	115.8	42.1	52	76	121
1"	87.9	115	32	45	122.4	51.5	60	76	127.5

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GLN	S1031	G	mm	bar	bar	lt/min	min	max		(kg)
T-GLN 102	S1031.02	3/8"	12.5	0.35	12	45	-10	80	NBR	0.69
T-GLN 103	S1031.03	1/2"	12.5	0.35	12	65	-10	80	NBR	0.66
T-GLN 104	S1031.04	3/4"	20	0.5	12	120	-10	80	NBR	0.67
T-GLN 105	S1031.05	1"	25	0.5	12	170	-10	80	NBR	0.81
T-GLN 106	S1031.06	11/4"	46	0.5	10	390	-10	80	NBR	2.66
T-GLN 107	S1031.07	11/2"	46	0.5	10	460	-10	80	NBR	2.56
T-GLN 108	S1031.08	2"	46	0.5	10	580	-10	80	NBR	2.99

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

GENERAL FEATURES

- High working pressure for connections 3/8", 1/2", 3/4" and 1"
- Suitable for non-aggressive liquids (water, light oil (2E), fuel oil, hydraulic oil, diesel oil, etc...), gaseous fluids (iner gases etc...)
- Working Temperature : -10°C / +160°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
- 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

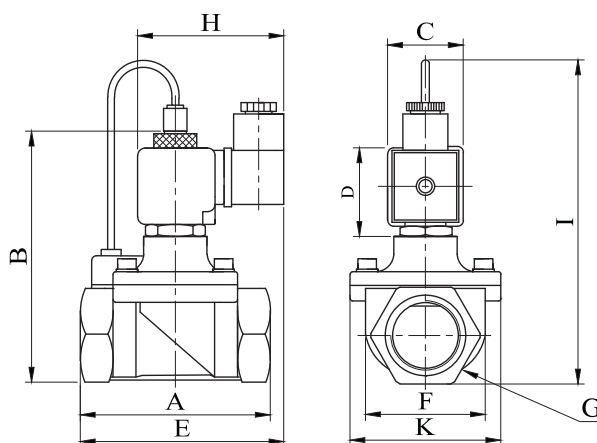
MATERIALS IN CONTACT WITH FLUID

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

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 : 60 bar
 Fluid Temperature for EPDM from -10°C; +140°C, for NBR from -10°C; +80°C

Normally Open



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	91.3	37.5	52	76	124	
1/2"	79	100	32	45	92	39.8	52	76	128	
3/4"	79	107.3	32	45	94	41.5	52	76	134	
1"	85	115	32	45	101	42.5	52	76	143.5	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GHA	S1014	G	mm			lt/min				
T-GHA 102	S1014.02	3/8"	12.5	0.5	40	48	-10	160	PTFE + VITON	0.71
T-GHA 103	S1014.03	1/2"	14.5	0.5	40	70	-10	160	PTFE + VITON	0.74
T-GHA 104	S1014.04	3/4"	17	0.5	40	85	-10	160	PTFE + VITON	0.82
T-GHA 105	S1014.05	1"	17	0.5	40	90	-10	160	PTFE + VITON	0.99

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: FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer, PTFE : Polytetrafluorethylene, NBR : Nitrile-Butylene Elastomer

B

GENERAL FEATURES

- Especially for air
- High working pressure for connections 3/8", 1/2", 3/4" and 1"
- Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, iner 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
- 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

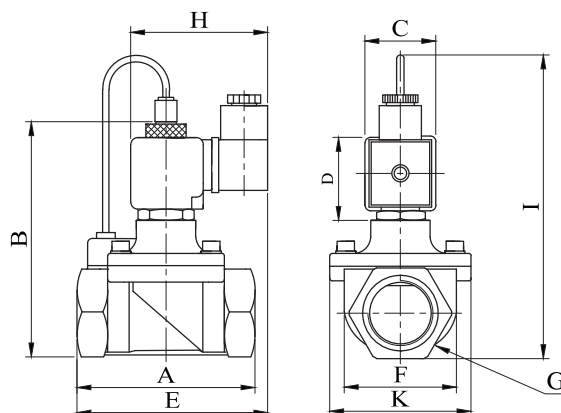
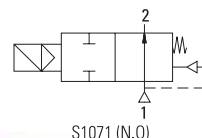
Body : Brass
 Internal Parts : Stainless Steel and brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be, EPDM and FPM (VITON)

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 : 60 bar
 Fluid Temperature for EPDM from -10°C; +140°C,
 for FPM (VITON) from -10°C; +160°C

Normally Open

Especially For Air
 High Pressure



Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	97	32	45	45	91.3	37.5	52	76	124
1/2"	79	100	32	45	45	92	39.8	52	76	128
3/4"	79	107.3	32	45	45	94	41.5	52	76	134
1"	85	115	32	45	45	101	42.5	52	76	143.5

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min °C	max		
T-GH1A	S1071	G	mm			lt/min				(kg)
T-GH1A 102	S1071.02	3/8"	12.5	0.5	40	48	-10	80	NBR	0.71
T-GH1A 103	S1071.03	1/2"	12.5	0.5	40	65	-10	80	NBR	0.74
T-GH1A 104	S1071.04	3/4"	12.5	0.5	40	72	-10	80	NBR	0.82
T-GH1A 105	S1071.05	1"	12.5	0.5	40	76	-10	80	NBR	0.99

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: FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer, NBR : Nitrile-Butylene Elastomer

GENERAL FEATURES

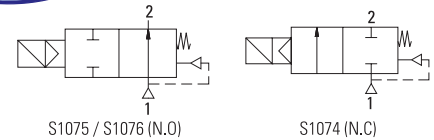
- TORK series S1074 / S1076 (N.C) and S1075 (N.O) diaphragm solenoid valves are 2/2 way normally closed and normally open and pilot operated
- Small connection size (1/8" and 1/4"), large orifice
- Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)
- 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
- 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))

Small Connection

Large Orifice

Normally Closed

Normally Open



S1075 / S1076 (N.O)

S1074 (N.C)

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, 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



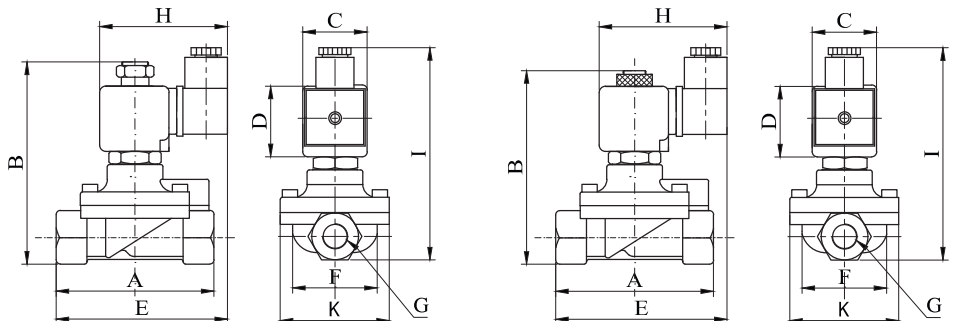
S1076 (N.O)

S1074 (N.C)



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



Dimensions (mm) (S1076)

	G	A	B	C	D	E	F	K	H	I
1/8"	75	97	32	45	91.3	37.5	52	76	108	
1/4"	75	97	32	45	91.3	37.5	52	76	108	

Dimensions (mm) (S1074)

	G	A	B	C	D	E	F	K	H	I
1/8"	75	97	32	45	91.3	37.5	52	76	108	
1/4"	75	97	32	45	91.3	37.5	52	76	108	

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

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GSL / T-GSLA / T-GSLN	S1074 / S1075 / S1076	G	mm	bar	bar	lt/min	min	max		(kg)
T-GSL 100	S1074.00	1/8"	12	0.5	16	18	-10	80	NBR	0.74
T-GSL 101	S1074.01	1/4"	12	0.5	16	25	-10	80	NBR	0.72
T-GSLA 100	S1075.00	1/8"	12	0.5	16	18	-10	80	NBR	0.75
T-GSLA 101	S1075.01	1/4"	12	0.5	16	25	-10	80	NBR	0.73
T-GSLN 100	S1076.00	1/8"	12	0.5	12	18	-10	80	NBR	0.69
T-GSLN 101	S1076.01	1/4"	12	0.5	12	25	-10	80	NBR	0.72

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

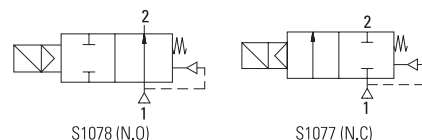
B

GENERAL FEATURES

- **TORK series S1077 (N.C) and S1078 (N.O)** diaphragm solenoid valves are 2/2 way normally closed and normally open and pilot operated
- **Small connection size (1/8" and 1/4"), large orifice, high pressure**
- **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
- 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))

Normally Closed

Normally Open



Small Connection

Large Orifice

High Pressure



ELECTRICAL CHARACTERISTICS

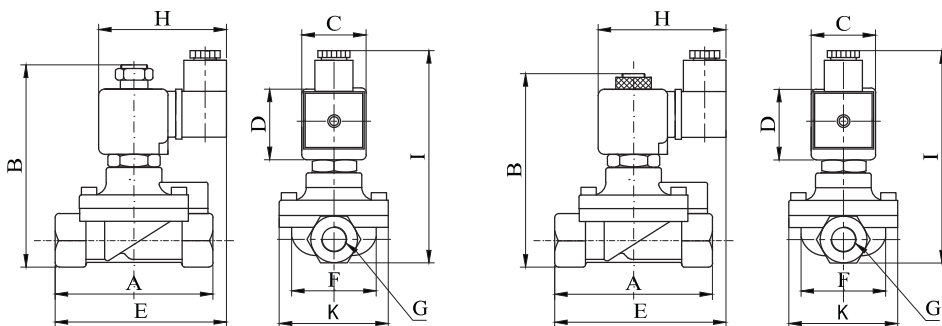
- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric 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 EPDM, FPM (VITON)



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: 60 bar
Fluid Temperature for EPDM from -10°C; +140°C, for FPM (VITON) from -10°C; +160°C

Dimensions (mm) (S1078)

	G	A	B	C	D	E	F	K	H	I
1/8"	75	97	32	45	91.3	37.5	52	76	108	
1/4"	75	97	32	45	91.3	37.5	52	76	108	

Dimensions (mm) (S1077)

	G	A	B	C	D	E	F	K	H	I
1/8"	75	97	32	45	91.3	37.5	52	76	108	
1/4"	75	97	32	45	91.3	37.5	52	76	108	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	°C max		
T-GHL / T-GHLA	S1077 / S1078	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-GHL 100	S1077.00	1/8"	12	0.5	40	18	-10	80	NBR	0.74
T-GHL 101	S1077.01	1/4"	12	0.5	40	25	-10	80	NBR	0.72
T-GHLA 100	S1078.00	1/8"	12	0.5	40	18	-10	80	NBR	0.75
T-GHLA 101	S1078.01	1/4"	12	0.5	40	25	-10	80	NBR	0.73

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

GENERAL FEATURES

- Don't require any differential pressure (for 3/8", 1/2", 3/4", 1")
- TORK series S1020 (N.C) and S1021 (N.O) diaphragm solenoid valves are 2/2 way normally closed and normally open and 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
- Internal exhaust system for normally open solenoid valves
- 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).
- Some applications; closed circuits
- 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

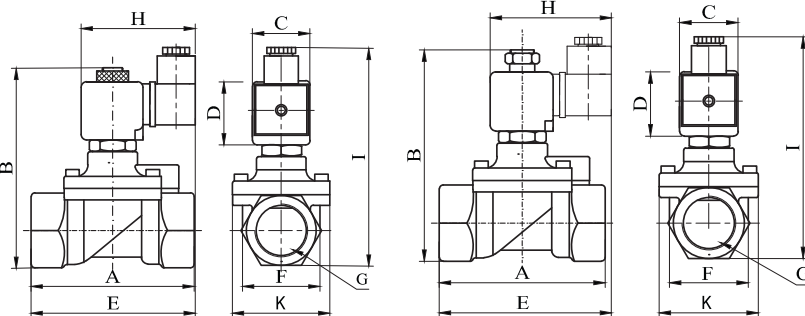
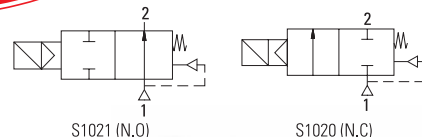
- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : NBR
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body
- On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 15 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C

Normally Closed
Normally Open

DON'T REQUIRE ANY DIFFERENTIAL PRESSURE



Dimensions (mm) (S1020)

	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	39.8	52	76	110	
3/4"	79	107.3	32	45	94	41.5	52	76	118	
1"	85	115	32	45	101	42.5	52	76	124	

Dimensions (mm) (S1021)

	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	107.3	32	45	94	41.5	52	76	118	
1"	87	115	32	45	101	42.5	52	76	124	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight		
T-GZ / T-GZN	S1020 / S1021	G	mm	bar	bar	lit/min	min °C	max °C	(kg)	
T-GZ 102	S1020.02	3/8"	12.5	0	16	38	-10	80	NBR	0.69
T-GZ 103	S1020.03	1/2"	14.5	0	16	62	-10	80	NBR	0.72
T-GZ 104	S1020.04	3/4"	17	0	16	85	-10	80	NBR	0.8
T-GZ 105	S1020.05	1"	17	0	16	100	-10	80	NBR	0.98
T-GZN 102	S1021.02	3/8"	12.5	0	12	38	-10	80	NBR	0.7
T-GZN 103	S1021.03	1/2"	14.5	0	12	62	-10	80	NBR	0.73
T-GZN 104	S1021.04	3/4"	17	0	12	85	-10	80	NBR	0.81
T-GZN 105	S1021.05	1"	17	0	12	100	-10	80	NBR	0.99

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, °C : 89,6 F
Sealings: NBR : Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer, EPDM : Ethylene-Propylene Elastomer

B

GENERAL FEATURES

- **Don't require any differential pressure (for 11/4", 11/2", 2")**
- **New design and full orifice**
- **TORK series S1020 (N.C) and S1021 (N.O) diaphragm solenoid valves are 2/2 way normally closed and normally open and 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
- **Internal exhaust system for normally open solenoid valves**
- 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.
- Some applications; closed circuits
- 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))
- On request flanged type
- On request manual override

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 : Stainless Steel
 Internal Parts : Stainless Steel and brass
 Sealing : EPDM
 Shading Ring : Copper
 Seats : Stainless Steel
 Core Tube : Stainless Steel
 Springs : Stainless Steel
 On request; sealing can be FPM (VITON), NBR

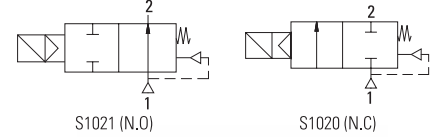
TECHNICAL FEATURES

- 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 : 15 bar
 Fluid Temperature for FPM (VITON) from -10°C; +120°C, for
 NBR from -10°C; +80°C

Normally Closed

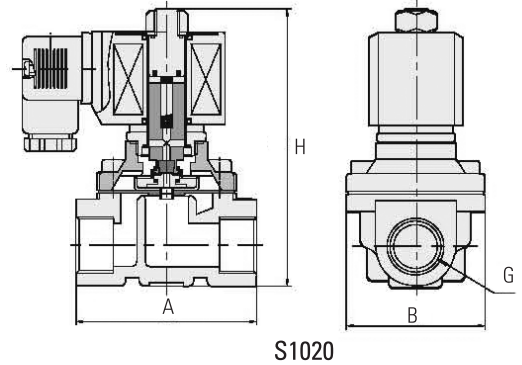
Normally Open

DON'T REQUIRE ANY DIFFERENTIAL PRESSURE



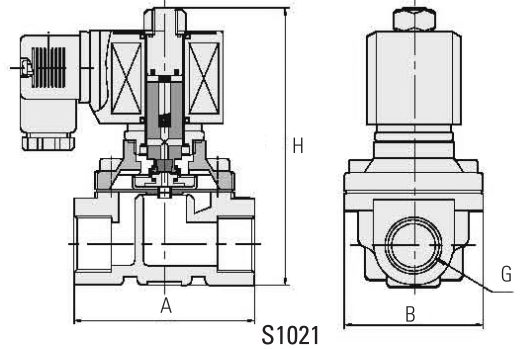
Dimensions (mm)

G	A	B	H
3/8"	69	57	106
1/2"	69	57	106
3/4"	73	57	114
1"	99	77.5	121
11/4"	112	86.5	150
11/2"	123	94	160
2"	168	123	183



Dimensions (mm)

G	A	B	H
3/8"	69	57	135
1/2"	69	57	135
3/4"	73	57	142
1"	99	77.5	150
11/4"	112	86.5	180
11/2"	123	94	190
2"	168	123	216



Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar AC DC		°C	min max		
T-GZ / T-GZN	S1020 / S1021	G	mm	bar	bar AC DC	lt/min	min	max		(kg)
T-GZ 106	S1020.06	11/4"	32	0	10 6	345	-10	130	EPDM	3.45
T-GZ 107	S1020.07	11/2"	40	0	10 6	415	-10	130	EPDM	3.35
T-GZ 108	S1020.08	2"	50	0	10 6	690	-10	130	EPDM	3.78
T-GZN 106	S1021.06	11/4"	32	0	5 3	345	-10	130	EPDM	3.45
T-GZN 107	S1021.07	11/2"	40	0	5 3	415	-10	130	EPDM	3.55
T-GZN 108	S1021.08	2"	50	0	5 3	690	-10	130	EPDM	3.88

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

GENERAL FEATURES

- New design, internal exhaust system (for normally open)
- TORK series S1040 (N.C) and S1041 (N.O) diaphragm solenoid valves are 2/2 way normally closed and normally open and 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 pressure differential 0,35 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.
- 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))
- On request; these valves is supplied for special applications to different designs and with different materials or performances.

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

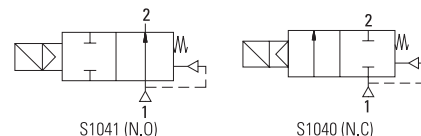
Body : Brass
 Internal Parts : Stainless Steel and Brass
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Brass
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be FPM (VITON), EPDM

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

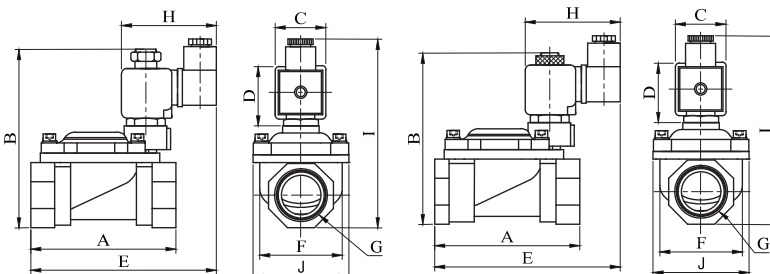
Normally Closed

Normally Open



S1041 (N.O)

S1040 (N.C)



Dimensions (mm) (S1041)

G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	73.4	112
1/2"	69	97	32	45	109	40	52	73.4	112
3/4"	81.3	107.9	32	45	115.8	42.1	52	73.4	121
1"	87.9	115.3	32	45	122.4	51.5	52	73.4	127.5

Dimensions (mm) (S1040)

G	A	B	C	D	E	F	J	H	I
3/8"	69	97	32	45	106.5	38	52	73.4	112
1/2"	69	97	32	45	109	40	52	73.4	112
3/4"	81.3	107.9	32	45	115.8	42.1	52	73.4	121
1"	87.9	115.3	32	45	122.4	51.5	52	73.4	127.5

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-GTD / T-GTDN	S1040 / S1041	G	mm	bar	bar	lt/min	min	max		(kg)
T-GTD 102	S1040.02	3/8"	12.5	0.35	16	45	-10	80	NBR	0.68
T-GTD 103	S1040.03	1/2"	12.5	0.35	16	65	-10	80	NBR	0.64
T-GTD 104	S1040.04	3/4"	15	0.35	16	70	-10	80	NBR	0.79
T-GTD 105	S1040.05	1"	15	0.35	16	85	-10	80	NBR	0.96
T-GTDN 102	S1041.02	3/8"	12.5	0.35	12	45	-10	80	NBR	0.68
T-GTDN 103	S1041.03	1/2"	12.5	0.35	12	65	-10	80	NBR	0.66
T-GTDN 104	S1041.04	3/4"	15	0.35	12	62	-10	80	NBR	0.8
T-GTDN 105	S1041.05	1"	15	0.35	12	75	-10	80	NBR	0.97

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

B

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))

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

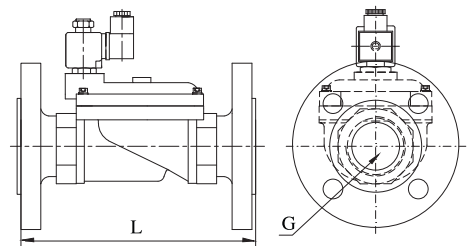
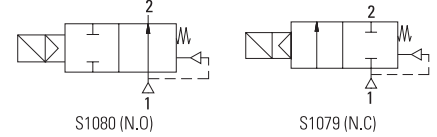
TECHNICAL FEATURES

- 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 : 20 bar
 Fluid Temperature for FPM (VITON) from -10°C; +160°C, for EPDM from -10°C; +140°C



Normally Closed

Normally Open



Dimensions (mm)

DN	32	40	50
L	180	200	230

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	°C max		
T-GLF / T-GLFN	S1079 / S1080	DN	mm	bar	bar	lt/min	min	°C max		(kg)
T-GLF 106	S1079.06	32	46	0.5	12	390	-10	80	NBR	6.65
T-GLF 107	S1079.07	40	46	0.5	12	460	-10	80	NBR	6.9
T-GLF 108	S1079.08	50	46	0.5	12	580	-10	80	NBR	8.6
T-GLFN 106	S1080.06	32	46	0.5	10	390	-10	80	NBR	6.65
T-GLFN 107	S1080.07	40	46	0.5	10	460	-10	80	NBR	6.9
T-GLFN 108	S1080.08	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