

**GENERAL FEATURES**

- **TORK series S7010 direct acting explosion proof solenoid valves are 2/2 way normally closed and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C - 135°C, em: encapsulation increased safety, II: Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

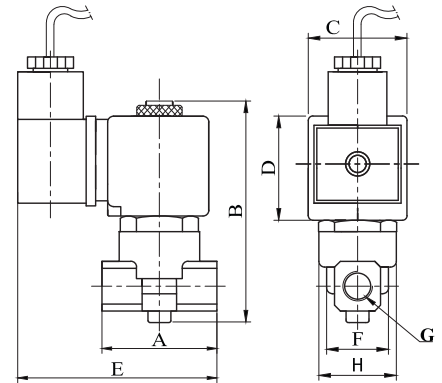
**MATERIALS IN CONTACT WITH FLUID**

- Body : Brass  
 Internal Parts : Stainless Steel  
 Sealing : 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 mm<sup>2</sup>/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 min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	°C max		
<b>T-ExGM</b>	<b>S7010</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>°C max</b>		<b>(kg)</b>
T-ExGM 100	S7010.00.018	1/8"	1.8	0	16	1.6	-10	80	NBR	0.58
T-ExGM 100.2,5	S7010.00.025	1/8"	2.5	0	12	3.2	-10	80	NBR	0.58
T-ExGM 100.3	S7010.00.030	1/8"	3	0	10	4.6	-10	80	NBR	0.58
T-ExGM 100.4	S7010.00.040	1/8"	4	0	9	6.4	-10	80	NBR	0.58
T-ExGM 100.5	S7010.00.050	1/8"	5	0	7	9.2	-10	80	NBR	0.58
T-ExGM 100.6	S7010.00.060	1/8"	6	0	5	11	-10	80	NBR	0.58
T-ExGM 101	S7010.01.018	1/4"	1.8	0	16	1.6	-10	80	NBR	0.57
T-ExGM 101.2,5	S7010.01.025	1/4"	2.5	0	12	3.2	-10	80	NBR	0.57
T-ExGM 101.3	S7010.01.030	1/4"	3	0	10	4.6	-10	80	NBR	0.57
T-ExGM 101.4	S7010.01.040	1/4"	4	0	9	6.4	-10	80	NBR	0.57
T-ExGM 101.5	S7010.01.050	1/4"	5	0	7	9.2	-10	80	NBR	0.57
T-ExGM 101.6	S7010.01.060	1/4"	6	0	5	11	-10	80	NBR	0.57

**Useful Informations**

1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
 Sealings: NBR: Nitrile-Butylene Elastomer, FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastome

**GENERAL FEATURES**

- **TORK series S7060, S7083 and S7065 direct acting explosion proof solenoid valves** are 2/2 way and 3/2 way normally closed and have small-compact body size.
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Low coil power (4.5 to 5 W for DC, 3.8 to 5.5 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.
- 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**

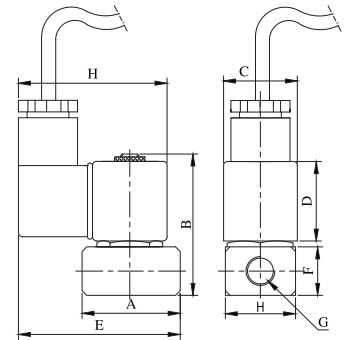
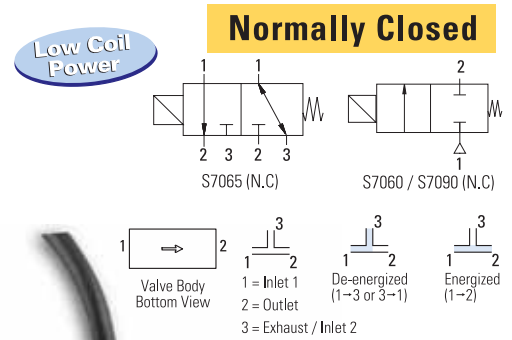
- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/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	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
				bar	bar		min °C	max		
T-ExMI / T-ExMIÖ T-ExMI.3W	S7060 / S7090 S7065	G	mm	bar	bar	lt/min	min °C	max		(kg)
T-ExMI 100	S7060.00.018	1/8"	1.8	0	16	1.6	-10	160	VITON	0.33
T-ExMI 100.2,5	S7060.00.025	1/8"	2.5	0	10	3.2	-10	160	VITON	0.33
T-ExMI 100.3	S7060.00.030	1/8"	3	0	6	4.6	-10	160	VITON	0.33
T-ExMI 100.4	S7060.00.040	1/8"	4	0	2.5	6.4	-10	160	VITON	0.33
T-ExMI 101	S7060.01.018	1/4"	1.8	0	16	1.6	-10	160	VITON	0.32
T-ExMI 101.2,5	S7060.01.025	1/4"	2.5	0	10	3.2	-10	160	VITON	0.32
T-ExMI 101.3	S7060.01.030	1/4"	3	0	6	4.6	-10	160	VITON	0.32
T-ExMI 101.4	S7060.01.040	1/4"	4	0	2.5	6.4	-10	160	VITON	0.32
T-ExMIÖ 101	S7083.01.018	1/4"	1.8	0	16	1.6	-10	160	VITON	0.34
T-ExMI.3W 101	S7065.01.018	1/4"	1.8	0	16 2 (for liquid) 14 (for air)	1-2=1,35 , 2-3=0,5	-10	160	VITON	0.32

**Useful Informations**

1 bar: 14,5 PSI; 10 mH<sub>2</sub>O; 10 N/cm<sup>2</sup>; 1 kg/cm<sup>2</sup>; 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM; 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
 Sealings: FPM (VITON); Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- **TORK series S7070 direct acting explosion proof steam solenoid valves are 2/2 way normally closed and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Especially for overheated water and steam. Suitable for liquids and gaseous fluids**
- 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))

**ELECTRICAL CHARACTERISTICS**

Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)

Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

**TECHNICAL FEATURES**

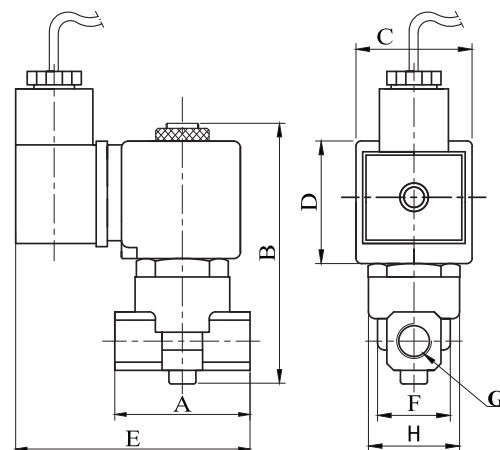
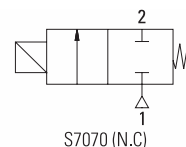
Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time: 30 ms, Closing Time: 30 ms  
 Maximum Allowable Pressure: 5 bar  
 Fluid Temperature for EPDM from -10°C; +140°C

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-ExB	S7070	G	mm			lt/min				(kg)
T-ExB 200	S7070.00.018	1/8"	1.8	0	5	1.6	-10	160	VITON	0.58
T-ExB 200.2,5	S7070.00.025	1/8"	2.5	0	5	3.2	-10	160	VITON	0.58
T-ExB 200.3	S7070.00.030	1/8"	3	0	5	4.6	-10	160	VITON	0.58
T-ExB 201	S7070.01.018	1/4"	1.8	0	5	1.6	-10	160	VITON	0.57
T-ExB 201.2,5	S7070.01.025	1/4"	2.5	0	5	3.2	-10	160	VITON	0.57
T-ExB 201.3	S7070.01.030	1/4"	3	0	5	4.6	-10	160	VITON	0.57

**Useful Informations**

1 bar: 14,5 PSI: 10 N/m<sup>2</sup>: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4.405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F, 2 bar steam: 133°C , 3 bar steam: 144 °C, 4 bar steam: 151°C, 5 bar steam: 160°C, 6 bar steam: 165°C  
 Sealings: FPM (VITON); Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

**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

B

**GENERAL FEATURES**

- **TORK series S7080 direct acting explosion proof fuel oil solenoid valves are 2/2 way normally closed and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam fluids**
- 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C,  
 em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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

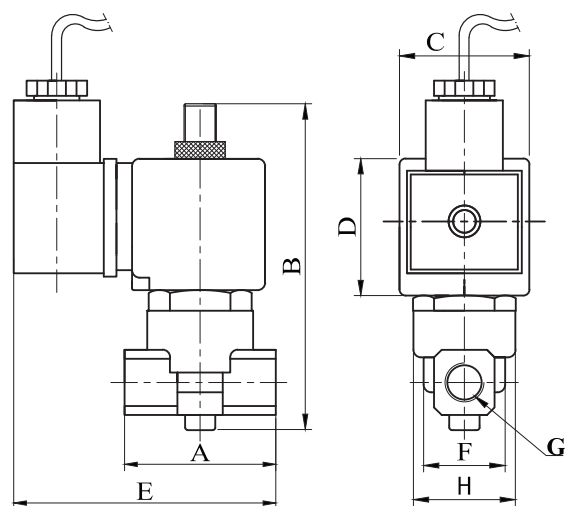
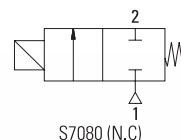
**MATERIALS IN CONTACT WITH FLUID**

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

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:30 ms, Closing Time:30 ms  
 Maximum Allowable Pressure:45 bar

**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		min	°C max		
<b>T-ExYA</b>	<b>S7080</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>°C max</b>		<b>(kg)</b>
T-ExYA 400	S7080.00.025	1/8"	2.5	0	30	3.2	-10	160	RUBY	0.59
T-ExYA 400,3,2	S7080.00.032	1/8"	3.2	0	20	5	-10	160	RUBY	0.59
T-ExYA 401	S7080.01.025	1/4"	2.5	0	30	3.2	-10	160	RUBY	0.58
T-ExYA 401,3,2	S7080.01.032	1/4"	3.2	0	20	5	-10	160	RUBY	0.58

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:RUBY:Synthetic Corundum

**GENERAL FEATURES**

- **TORK series S7077 direct acting Stainless Steel explosion proof solenoid valves are 2/2 way normally closed and have small body size.**
- **Circular body**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **High pressure model available on request;**
- **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 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

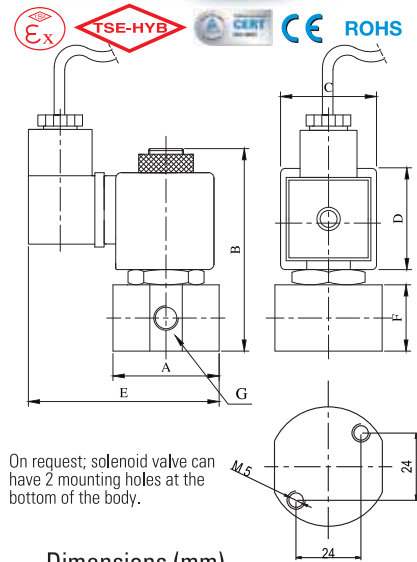
**MATERIALS IN CONTACT WITH FLUID**

- Body : Stainless Steel  
 Internal Parts : Stainless Steel  
 Sealing : PTFE  
 Shading Ring : Copper  
 Seats : Stainless Steel  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel  
 On request; sealing can be FPM (VITON)

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:30 ms, Closing Time :30 ms  
 Maximum Allowable Pressure:20 bar  
 Fluid Temperature for FPM from -10°C; +160°C

**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
1/8"	40	77.5	32	39	72	25
1/4"	40	77.5	32	39	72	25
3/8"	40	77.5	32	39	72	25

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight		
T-ExSS	S7077	G	mm	bar	bar	lt/min	min °C	max	(kg)	
T-ExSS 600	S7077.00.025	1/8"	2.5	0	12	3.2	-10	160	PTFE	0.68
T-ExSS 600.1,8	S7077.00.018	1/8"	1.8	0	16	1.6	-10	160	PTFE	0.68
T-ExSS 600.3	S7077.00.030	1/8"	3	0	10	4.6	-10	160	PTFE	0.68
T-ExSS 600.4	S7077.00.040	1/8"	4	0	9	6.4	-10	160	PTFE	0.68
T-ExSS 600.5	S7077.00.050	1/8"	5	0	7	9.2	-10	160	PTFE	0.68
T-ExSS 600.6	S7077.00.060	1/8"	6	0	6	11	-10	160	PTFE	0.68
T-ExSS 601	S7077.01.025	1/4"	2.5	0	12	3.2	-10	160	PTFE	0.67
T-ExSS 601.1,8	S7077.01.018	1/4"	1.8	0	16	1.6	-10	160	PTFE	0.67
T-ExSS 601.3	S7077.01.030	1/4"	3	0	10	4.6	-10	160	PTFE	0.67
T-ExSS 601.4	S7077.01.040	1/4"	4	0	9	6.4	-10	160	PTFE	0.67
T-ExSS 601.5	S7077.01.050	1/4"	5	0	7	9.2	-10	160	PTFE	0.67
T-ExSS 601.6	S7077.01.060	1/4"	6	0	6	11	-10	160	PTFE	0.67
T-ExSS 602	S7077.02.070	3/8"	7	0	5	12.4	-10	160	PTFE	0.64
T-ExSS 602.5	S7077.02.050	3/8"	5	0	7	9.2	-10	160	PTFE	0.64

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:., FPM (VITON):Fluoro-Carbon Elastomer, PTFE:Polytetrafluorethylene

B

**GENERAL FEATURES**

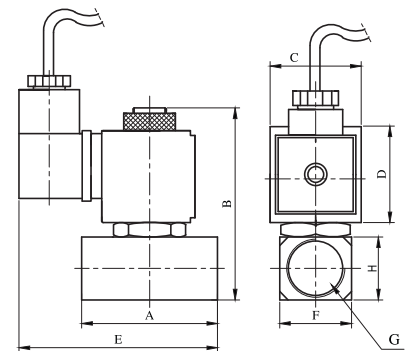
- **TORK series S7078 direct acting explosion proof Stainless Steel solenoid valves are 2/2 way normally closed and have small body size.**
- **Square body**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **High pressure model available on request;**
- **Suitable for non-aggressive 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 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
- 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 can be 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	44.1	76.5	32	39	77.4	24.5	24.5	
1/4"	44.1	76.5	32	39	77.4	24.5	24.5	

**MATERIALS IN CONTACT WITH FLUID**

- Body : Stainless Steel
- Internal Parts : Stainless Steel
- Sealing : PTFE
- Shading Ring : Copper
- Seats : Stainless Steel
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request sealing can be FPM (VITON)

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm²/s)
- Response Time : Opening Time:30 ms,  
Closing Time :30 ms
- Maximum Allowable Pressure:25 bar
- Fluid Temperature for FPM from -10°C; +160°C

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
<b>T-ExSS</b>	<b>S7078</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-ExSS 604	S7078.00.018	1/8"	1.8	0	16	1.6	-10	160	PTFE	0.66
T-ExSS 604.2,5	S7078.00.025	1/8"	2.5	0	12	3.2	-10	160	PTFE	0.66
T-ExSS 604.3	S7078.00.030	1/8"	3	0	10	4.6	-10	160	PTFE	0.66
T-ExSS 604.4	S7078.00.040	1/8"	4	0	9	6.4	-10	160	PTFE	0.66
T-ExSS 604.5	S7078.00.050	1/8"	5	0	7	9.2	-10	160	PTFE	0.66
T-ExSS 604.6	S7078.00.060	1/8"	6	0	6	11	-10	160	PTFE	0.66
T-ExSS 605	S7078.01.018	1/4"	1.8	0	16	1.6	-10	160	PTFE	0.65
T-ExSS 605.2,5	S7078.01.025	1/4"	2.5	0	12	3.2	-10	160	PTFE	0.65
T-ExSS 605.3	S7078.01.030	1/4"	3	0	10	4.6	-10	160	PTFE	0.65
T-ExSS 605.4	S7078.01.040	1/4"	4	0	9	6.4	-10	160	PTFE	0.65
T-ExSS 605.5	S7078.01.050	1/4"	5	0	7	9.2	-10	160	PTFE	0.65
T-ExSS 605.6	S7078.01.060	1/4"	6	0	6	11	-10	160	PTFE	0.65

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
Sealings.: FPM (VITON):Fluoro-Carbon Elastomer, PTFE:Polytetrafluorethylene

**GENERAL FEATURES**

- **TORK series S7078 / S7087 direct acting explosion proof Stainless Steel solenoid valves are 2/2 way and 3/2 way normally closed and have small body size.**
- **Square body**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- High pressure model available on request;
- **Valves especially used on exhaust systems (for 3/2 way)**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, iner gases etc...)**
- Working Temperature:-10°C / +160°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 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Safety mode : Explosionproof operator, intended for use in potentially explosive atmospheres
- Protection Degree : Easy electrical installation by means of the cable, standard length 3 meters
- Electrical Safety : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Standard Voltages : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Other voltages on request; : IEC 335
- Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
- Frequency : 50 Hz , other frequencies on request; (60 Hz)
- Specify coil voltage with order

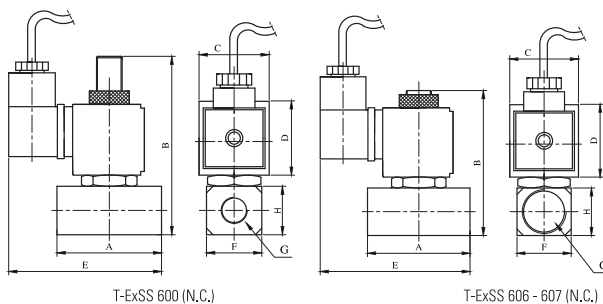
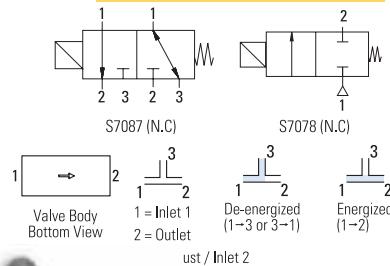
**MATERIALS IN CONTACT WITH FLUID**

- Body : Stainless Steel
- Internal Parts : Stainless Steel
- Sealing : PTFE
- Shading Ring : Copper
- Seats : Stainless Steel
- Core Tube : Stainless Steel
- Springs : Stainless Steel

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)
- Response Time : Opening Time:30 ms, Closing Time :30 ms
- Maximum Allowable Pressure:20 bar
- Fluid Temperature for FPM from -10°C; +160°C

**Normally Closed**



**Dimensions (mm)**

	G	A	B	C	D	E	F	H
1/8"	44.1	92	32	39	77.4	24.5	24.5	
1/4"	44.1	92	32	39	77.4	24.5	24.5	
3/8"	44.1	76.5	32	39	77.4	24.5	24.5	
1/2"	44.1	76.5	32	39	77.4	24.5	24.5	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size		Pressure min / max		KV	Fluid Temperature		Seal	Weight (kg)
			mm	bar	bar	bar		min	max		
T-ExSS	S7078 / S7087	G	mm	bar	bar	bar	lt/min	min	max	°C	(kg)
T-ExSS 606	S7078.02.050K	3/8"	5	0	7	7	9.2	-10	160	PTFE	0.64
T-ExSS 606.6	S7078.02.060K	3/8"	6	0	6	6	11	-10	160	PTFE	0.64
T-ExSS 606.7	S7078.02.070K	3/8"	7	0	5	5	12.4	-10	160	PTFE	0.64
T-ExSS 606.8	S7078.02.080K	3/8"	8	0	3	3	13.5	-10	160	PTFE	0.64
T-ExSS 606.9	S7078.02.090K	3/8"	9	0	2	2	16	-10	160	PTFE	0.64
T-ExSS 606.10	S7078.02.100K	3/8"	10	0	1	1	19	-10	160	PTFE	0.64
T-ExSS 607	S7078.02.070K	1/2"	7	0	5	5	12.4	-10	160	PTFE	0.63
T-ExSS 607.5	S7078.02.050K	1/2"	5	0	7	7	9.2	-10	160	PTFE	0.63
T-ExSS 607.6	S7078.03.060K	1/2"	6	0	6	6	11	-10	160	PTFE	0.63
T-ExSS 607.8	S7078.03.080K	1/2"	8	0	3	3	13.5	-10	160	PTFE	0.63
T-ExSS 607.9	S7078.03.090K	1/2"	9	0	2	2	16	-10	160	PTFE	0.63
T-ExSS 607.10	S7078.03.100K	1/2"	10	0	1	1	19	-10	160	PTFE	0.63
T-ExSS 600	S7087.00.025K	1/8"	2.5	0	1 (for liquid), 10 (for air)	1	1-2=2,7, 2-3=2,7	-10	160	VITON	0.66
T-ExSS 600.1,8	S7087.00.018K	1/8"	1.8	0	2 (for liquid), 14 (for air)	2	1-2=1,35, 2-3=2,7	-10	160	VITON	0.66
T-ExSS 601	S7087.01.025K	1/4"	2.5	0	1 (for liquid), 10 (for air)	1	1-2=2,7, 2-3=2,7	-10	160	VITON	0.65
T-ExSS 601.1,8	S7087.01.018K	1/4"	1.8	0	2 (for liquid), 14 (for air)	2	1-2=1,35, 2-3=2,7	-10	160	VITON	0.65

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
Sealings.: FPM (VITON):Fluoro-Carbon Elastomer, PTFE:Polytetrafluorethylene

B

**GENERAL FEATURES**

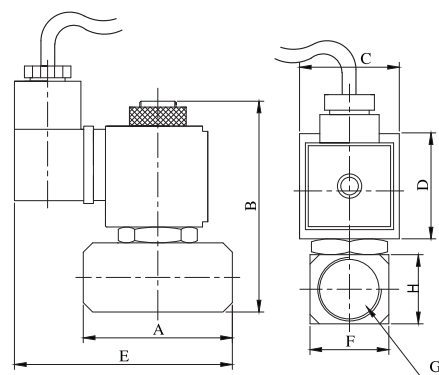
- **TORK series S7078 direct acting explosion proof Stainless Steel solenoid valves are 2/2 way normally closed and have small body size.**
- **Square body, large orifice, high flow rate**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, iner gases etc...)**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- Connection size 3/4" and 1".
- **High pressure model available on request;**
- 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 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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



Dimensions (mm)

	G	A	B	C	D	E	F	H
3/4"	60	86,5	32	39	81,5	30	30	
1"	60	86,5	32	39	81,5	30	30	

**MATERIALS IN CONTACT WITH FLUID TECHNICAL FEATURES**

- Body : Stainless Steel  
 Internal Parts : Stainless Steel  
 Sealing : PTFE  
 Shading Ring : Copper  
 Seats : Stainless Steel  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel
- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:30 ms,  
 Closing Time :30 ms  
 Maximum Allowable Pressure:10 bar

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
<b>T-ExSK</b>	<b>S7078</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-ExSK 604	S7078.04.050	3/4"	5	0	7	9.2	-10	160	PTFE	1.01
T-ExSK 604.6	S7078.04.060	3/4"	6	0	6	11	-10	160	PTFE	1.01
T-ExSK 604.7	S7078.04.070	3/4"	7	0	5	12.4	-10	160	PTFE	1.01
T-ExSK 604.8	S7078.04.080	3/4"	8	0	3	13.5	-10	160	PTFE	1.01
T-ExSK 604.9	S7078.04.090	3/4"	9	0	2	16	-10	160	PTFE	1.01
T-ExSK 604.10	S7078.04.100	3/4"	10	0	1	19	-10	160	PTFE	1.01
T-ExSK 605	S7078.05.050	1"	5	0	7	9.2	-10	160	PTFE	0.99
T-ExSK 605.6	S7078.05.060	1"	6	0	6	11	-10	160	PTFE	0.99
T-ExSK 605.7	S7078.05.070	1"	7	0	5	12.4	-10	160	PTFE	0.99
T-ExSK 605.8	S7078.05.080	1"	8	0	3	13.5	-10	160	PTFE	0.99
T-ExSK 605.9	S7078.05.090	1"	9	0	2	16	-10	160	PTFE	0.99
T-ExSK 605.10	S7078.05.100	1"	10	0	1	19	-10	160	PTFE	0.99

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:PTFE:Polytetrafluorethylene



**GENERAL FEATURES**

- **TORK series S7011 direct acting explosion proof solenoid valves are 2/2 way normally open and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Safety mode : Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Protection Degree : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C,  
 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 : 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  
 On request; seat stainless Steel (for overheated water and steam)

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/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

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		
<b>T-ExGN</b>	<b>S7011</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>max</b>		<b>(kg)</b>
T-ExGN 100	S7011.00.018	1/8"	1.8	0	12	1.6	-10	80	NBR	0.6
T-ExGN 100.2,5	S7011.00.025	1/8"	2.5	0	10	3.2	-10	80	NBR	0.6
T-ExGN 100.3	S7011.00.030	1/8"	3	0	5	4.6	-10	80	NBR	0.6
T-ExGN 101	S7011.01.018	1/4"	1.8	0	12	1.6	-10	80	NBR	0.59
T-ExGN 101.2,5	S7011.01.025	1/4"	2.5	0	10	3.2	-10	80	NBR	0.59
T-ExGN 101.3	S7011.01.030	1/4"	3	0	5	4.6	-10	80	NBR	0.59

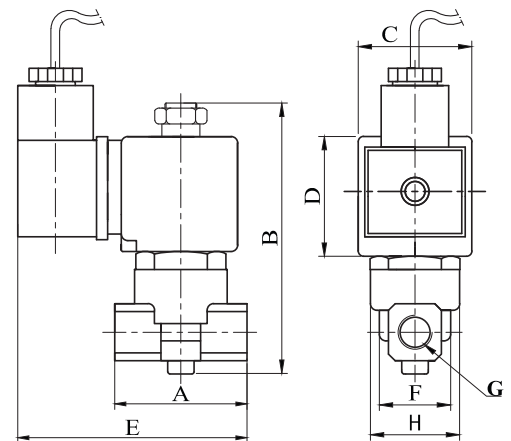
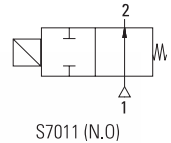
**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar, 1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitri-le-Butylene Elastomer, FPM (VITON): Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

**NEW**



**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

B

**GENERAL FEATURES**

- TORK series S7071 pilot operated explosion proof steam solenoid valves are 2/2 way normally open and have small body size.
- Explosion proof solenoid valves for use in zone 1 and zone 2
- New design, internal exhaust system
- Especially for overheated water and steam
- Suitable for liquids and gaseous fluids.
- 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 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C,  
 em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

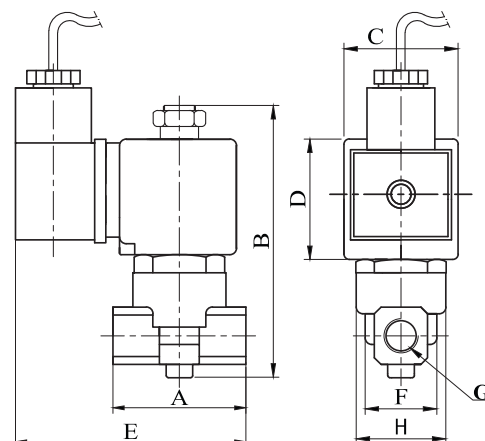
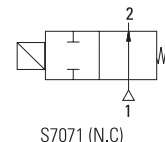
**MATERIALS IN CONTACT WITH FLUID**

- 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

**TECHNICAL FEATURES**

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

**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-ExBN	S7071	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-ExBN 200	S7071.00.018	1/8"	1.8	0	5	1.6	-10	160	VITON	0.6
T-ExBN 200.2,5	S7071.00.025	1/8"	2.5	0	5	3.2	-10	160	VITON	0.6
T-ExBN 200.3	S7071.00.030	1/8"	3	0	5	4.6	-10	160	VITON	0.6
T-ExBN 201	S7071.01.018	1/4"	1.8	0	5	1.6	-10	160	VITON	0.59
T-ExBN 201.2,5	S7071.01.025	1/4"	2.5	0	5	3.2	-10	160	VITON	0.59
T-ExBN 201.3	S7071.01.030	1/4"	3	0	5	4.6	-10	160	VITON	0.59

**Useful Informations**

1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar,1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F, 2 bar steam: 133°C , 3 bar steam: 144 °C, 4 bar steam: 151°C, 5 bar steam: 160°C, 6 bar steam: 165°C  
 Sealings:PTFE:Polytetrafluorethylene, EPDM:Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- **TORK series S7081 direct acting explosion proof fuel oil solenoid valves are 2/2 way normally open and have small body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam etc...) fluids**
- 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
- 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters

Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C,  
 em: encapsulation increased safety, II: Equipment group)

Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

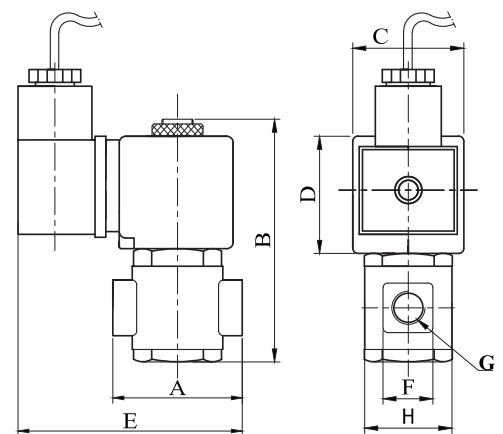
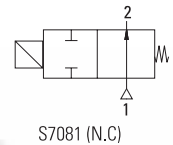
**MATERIALS IN CONTACT WITH FLUID**

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

**TECHNICAL FEATURES**

Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time: 30 ms, Closing Time: 30 ms  
 Maximum Allowable Pressure : 45 bar

**Normally Open**



Dimensions (mm)

	G	A	B	C	D	E	F	H
1/8"	40	82.5	32	39	78	18	25.2	
1/4"	40	82.5	32	39	78	18	25.2	

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		
<b>T-ExYN</b>	<b>S7081</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>max</b>		<b>(kg)</b>
T-ExYN 400	S7081.00.025	1/8"	2.5	0	30	3.2	-10	160	RUBY	0.6
T-ExYN 400.3	S7081.00.030	1/8"	3	0	22	4.6	-10	160	RUBY	0.6
T-ExYN 400.3,2	S7081.00.032	1/8"	3.2	0	20	5	-10	160	RUBY	0.6
T-ExYN 401	S7081.01.025	1/4"	2.5	0	30	3.2	-10	160	RUBY	0.59
T-ExYN 401.3	S7081.01.030	1/4"	3	0	22	4.6	-10	160	RUBY	0.59
T-ExYN 401.3,2	S7081.01.032	1/4"	3.2	0	20	5	-10	160	RUBY	0.59

**Useful Informations**

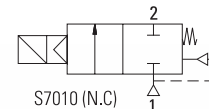
1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa, 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
 Sealings: RUBY: Synthetic Corundum

B

**GENERAL FEATURES**

- **TORK series S7010 diaphragm explosion proof solenoid valves are 2/2 way normally closed and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C - 135°C, em: encapsulation increased safety, II: Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
 For DC 12V, 24V, 48V, 110 V

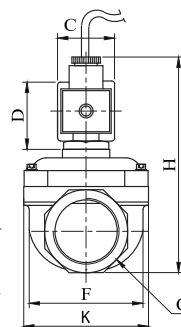
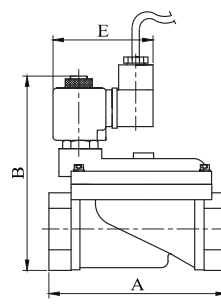
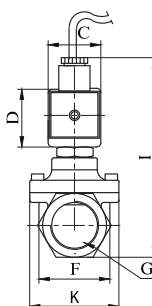
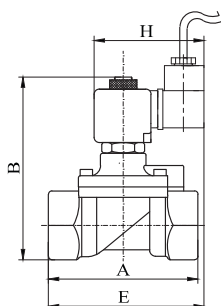
- Other voltages on request;  
 Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%  
 Frequency : 50 Hz , other frequencies on request; (60 Hz)  
 Specify coil voltage with order

**MATERIALS IN CONTACT WITH FLUID**

- Body: Brass  
 Internal Parts: Stainless Steel 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



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	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	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
<b>T-ExGM</b>	<b>S7010</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-ExGM 102	S7010.02	3/8"	12.5	0.5	16	48	-10	80	NBR	0.9
T-ExGM 103	S7010.03	1/2"	14.5	0.5	16	70	-10	80	NBR	0.93
T-ExGM 104	S7010.04	3/4"	17	0.5	16	85	-10	80	NBR	1.02
T-ExGM 105	S7010.05	1"	17	0.5	16	90	-10	80	NBR	1.2
T-ExGM 106	S7010.06	11/4"	46	0.5	12	390	-10	80	NBR	2.87
T-ExGM 107	S7010.07	11/2"	46	0.5	12	460	-10	80	NBR	2.77
T-ExGM 108	S7010.08	2"	46	0.5	12	580	-10	80	NBR	3.2

**Useful Informations**

1 bar: 14.5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa, 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4.405 GPM: 16.7 L/d 1 Gallon / minute: 0.227 m<sup>3</sup>/h, 0°C: 89.6 F  
 Sealings: NBR: Nitrile-Butylene Elastomer, FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- **New design**
- **Full orifice solenoid valves**
- 2 1/2" and 3" connection option
- **TORK series S7030, S7033 and S7090 diaphragm explosion proof solenoid valves are 2/2 way normally closed and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...) that are compatible with the construction materials used in the valves.(for S7030 and S7033)**
- **Suitable for irrigation systems (S7090)**
- Working Temperature:-10°C / +80°C. (for S7030 and S7033) and maximum +50°C. (for S7090)
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 0,35, 0,5, 1 and 1,5 bar
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- **On request; manual override (for S7030)**
- **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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operation, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

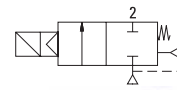
**MATERIALS IN CONTACT WITH FLUID**

Body : Brass and cast iron (for S7030 and S7033) and Reinforced Nylon (for S7090)  
 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 (for S7030)  
 On request; sealing can be FPM (VITON),EPDM

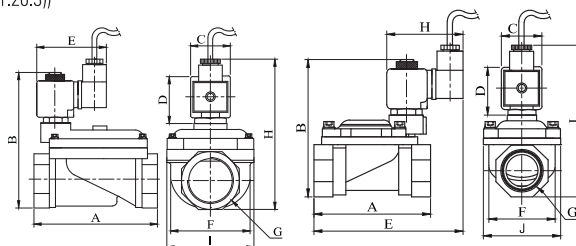
**TECHNICAL FEATURES**

Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:400 ms to ~ 1600 ms,  
 Closing Time :1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure:25 bar  
 (for S7030 and S7033), 15 bar (for S7090)  
 Fluid Temperature for FPM (VITON)  
 from -10°C; +160°C, for EPDM from -10°C; +140°C

**Normally Closed**



S7030 (N.C)  
S7033 (N.C)  
S7090 (N.C)



Dimensions (mm)

	G	A	B	C	D	E	F	I	H
1 1/4"	141	147	32	45	76	96.5	110.7	156	
1 1/2"	139	147	32	45	76	96.5	110.7	156	
2"	145.6	157	32	45	76	96.5	110.7	165.5	

Dimensions (mm)

	G	A	B	C	D	E	F	J	H	I
3/8"	69	101	32	45	106.5	38	52	76	112	
1/2"	69	104	32	45	106.5	40	52	76	112	
3/4"	81.3	112	32	45	115.8	42.1	51.9	76	121	
1"	87.9	119	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		
<b>T-ExG...</b>	<b>S7030 / S7033 S7090</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-ExGL 102	S7030.02	3/8"	12.5	0.35	16	45	-10	80	NBR	0.9
T-ExGL 103	S7030.03	1/2"	12.5	0.35	16	65	-10	80	NBR	0.86
T-ExGL 104	S7030.04	3/4"	20	0.5	16	120	-10	80	NBR	0.88
T-ExGL 105	S7030.05	1"	25	0.5	16	170	-10	80	NBR	1.02
T-ExGL 106	S7030.06	1 1/4"	46	0.5	12	390	-10	80	NBR	2.87
T-ExGL 107	S7030.07	1 1/2"	46	0.5	12	460	-10	80	NBR	2.77
T-ExGL 108	S7030.08	2"	46	0.5	12	580	-10	80	NBR	3.2
T-ExGL 109	S7030.09	2 1/2"	72.8	1	6	1266	-10	80	NBR	6.2
T-ExGL 110	S7030.10	3"	85.4	1	6	2333	-10	80	NBR	10.4
T-ExGLH 109	S7033.09	2 1/2"	72.8	1.5	16	1266	-10	80	NBR	6.2
T-ExGLH 110	S7033.10	3"	85.4	1.5	16	2333	-10	80	NBR	10.4
T-ExGPP 105	S7090.05	1"	31	1	10	300	-10	50	NBR	1.15
T-ExGPP 107	S7090.07	1 1/2"	45	1	10	433	-10	50	NBR	1.35
T-ExGPP 108	S7090.08	2"	57	1	10	1066	-10	50	NBR	2.3
T-ExGPP 109	S7090.09	2 1/2"	74	1	10	1150	-10	50	NBR	2.5
T-ExGPP 110	S7090.10	3"	86	1	10	1733	-10	50	NBR	2.75

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

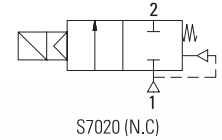
B

**GENERAL FEATURES**

- **TORK series S7020 (N.C)** diaphragm explosion proof solenoid valves are 2/2 way normally closed and pilot operated
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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 differential pressure (for 3/8", 1/2", 3/4", 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).
- 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))

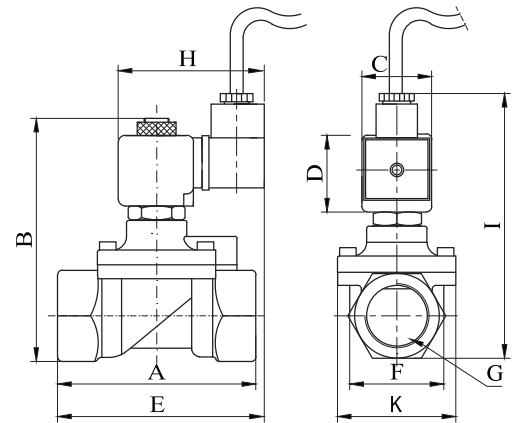
**Normally Closed**

DON'T REQUIRE ANY DIFFERENTIAL PRESSURE



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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



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	101	42.5	52	76	124	

**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

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-ExGZ	S7020	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-ExGZ 102	S7020.02	3/8"	12.5	0	16	38	-10	80	NBR	0.91
T-ExGZ 103	S7020.03	1/2"	14.5	0	16	62	-10	80	NBR	0.94
T-ExGZ 104	S7020.04	3/4"	17	0	16	85	-10	80	NBR	1.02
T-ExGZ 105	S7020.05	1"	17	0	16	100	-10	80	NBR	1.2

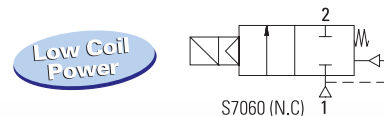
**Useful Informations**

1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
 Sealings: NBR: Nitrile-Butylene Elastomer , FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- **TORK series S7060 (N.C) diaphragm explosion proof solenoid valves are 2/2 way normally closed and pilot operated and have small-compact body size.**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Low coil power (4.5 to 5 W for DC, 3.8 to 5.5 VA 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))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

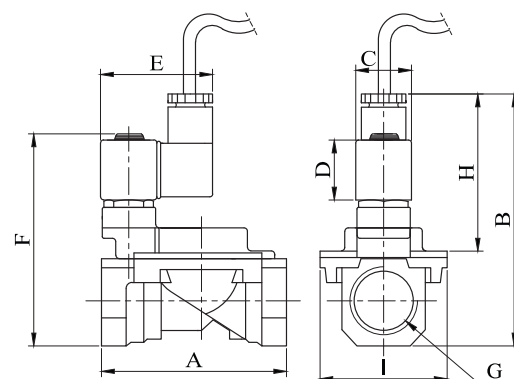


**MATERIALS IN CONTACT WITH FLUID**

- Body : Brass  
 Internal Parts : Stainless Steel 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 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 EPDM from -10°C; +140°C



Dimensions (mm)

	G	A	B	C	D	E	F	I	H
3/8"	57,8	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
				bar	bar		min	°C max		
<b>T-ExMI</b>	<b>S7060</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>°C max</b>		<b>(kg)</b>
T-ExMI 102	S7060.02	3/8"	12	0.35	12	40	-10	80	NBR	0.55
T-ExMI 103	S7060.03	1/2"	12	0.35	12	58	-10	80	NBR	0.53
T-ExMI 104	S7060.04	3/4"	15	0.35	12	75	-10	80	NBR	0.73
T-ExMI 105	S7060.05	1"	15	0.35	12	90	-10	80	NBR	0.93

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitrile-Butylene Elastomer , EPDM:Ethylene-Propylene Elastomer

B

**GENERAL FEATURES**

- **TORK series S7070 diaphragm explosion proof steam solenoid valves are 2/2 way normally closed and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Especially for overheated water and steam**
- **Suitable for liquids and gaseous fluids**
- Working Temperature: -10°C / +140°C and 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

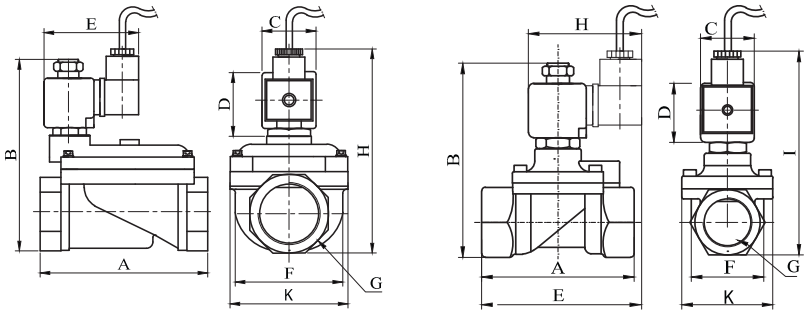
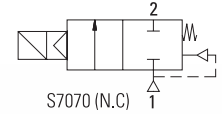
**MATERIALS IN CONTACT WITH FLUID**

Body : Brass  
 Internal Parts : Stainless Steel and brass  
 Sealing : PTFE (for 3/8", 1/2", 3/4", 1") and EPDM (for 1 1/4", 1 1/2", 2")  
 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 mm<sup>2</sup>/s)  
 Response Time : Opening Time: 400 ms to ~ 1600 ms,  
 Closing Time : 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 5 bar  
 Fluid Temperature for PTFE from -10°C; +160°C,  
 for EPDM from -10°C; +140°C

**Normally Closed**



Dimensions (mm)

G	A	B	C	D	E	F	K	H
1 1/4"	141	147	32	45	76	96.5	110.7	156
1 1/2"	139	147	32	45	76	96.5	110.7	156
2"	145.6	157	32	45	76	96.5	110.7	165.5

Dimensions (mm)

G	A	B	C	D	E	F	K	H	I
3/8"	75	102.5	32	45	91.3	37.5	52	76	108
1/2"	79	104.5	32	45	92	39.5	52	76	110
3/4"	79	112.5	32	45	94	41.5	52	76	118
1"	85	120.5	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
				bar	bar		min	max		
<b>T-ExB</b>	<b>S7070</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>max</b>		<b>(kg)</b>
T-ExB 202	S7070.02	3/8"	12.5	0.5	5	48	-10	160	PTFE	0.9
T-ExB 203	S7070.03	1/2"	14.5	0.5	5	70	-10	160	PTFE	0.93
T-ExB 204	S7070.04	3/4"	17	0.5	5	85	-10	160	PTFE	1.02
T-ExB 205	S7070.05	1"	17	0.5	5	90	-10	160	PTFE	1.2
T-ExB 206	S7070.06	1 1/4"	46	0.5	3	390	-10	140	EPDM	2.87
T-ExB 207	S7070.07	1 1/2"	46	0.5	3	460	-10	140	EPDM	2.77
T-ExB 208	S7070.08	2"	46	0.5	3	580	-10	140	EPDM	3.2

**Useful Informations**

1 bar: 14.5 PSI; 10 mH<sub>2</sub>O; 10 N/cm<sup>2</sup>; 1 kg/cm<sup>2</sup>; 100000 Pa, 1 PSI; 69 mbar, 1 m<sup>3</sup>/h: 4.405 GPM; 16.7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F, 2 bar steam: 133°C, 3 bar steam: 144 °C, 4 bar steam: 151°C, 5 bar steam: 160°C, 6 bar steam: 165°C  
 Sealings: PTFE: Polytetrafluorethylene, EPDM: Ethylene-Propylene Elastomer



**GENERAL FEATURES**

- **TORK series S7080 diaphragm explosion proof fuel oil solenoid valves are 2/2 way normally closed and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Suitable for non-aggressive liquids fuel oil, hydraulic oil, light oil (2E), overheated water and steam fluids**
- 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 is 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

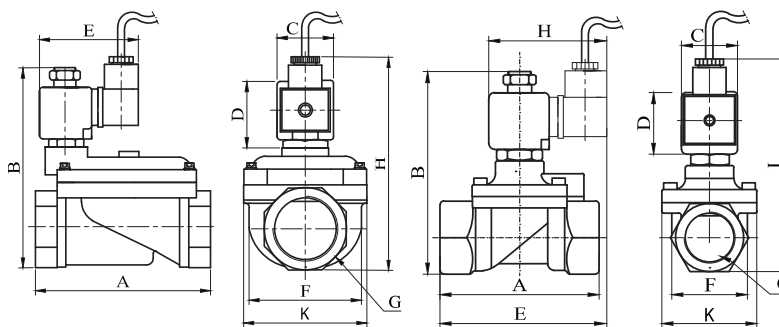
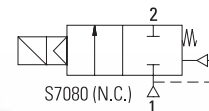
**MATERIALS IN CONTACT WITH FLUID**

- Body : Brass  
 Internal Parts : Stainless Steel and brass  
 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 mm<sup>2</sup>/s)  
 Response Time : Opening Time : 400 ms to ~ 1600 ms,  
 Closing Time : 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 25 bar

**Normally Closed**



Dimensions (mm)

	G	A	B	C	D	E	F	K	H
11/4"	141	147	32	45	76	96.5	110.7	156	
11/2"	139	147	32	45	76	96.5	110.7	156	
2"	145.6	157	32	45	76	96.5	110.7	165.5	

Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	102.5	32	45	91.3	37.5	52	76	108	
1/2"	79	104.5	32	45	92	39.5	52	76	110	
3/4"	79	112.5	32	45	94	41.5	52	76	118	
1"	85	120.5	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
				bar	bar		min	°C max		
<b>T-ExYA</b>	<b>S7080</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>°C max</b>		<b>(kg)</b>
T-ExYA 402	S7080.02	3/8"	12.5	0.5	16	48	-10	160	VITON	0.9
T-ExYA 403	S7080.03	1/2"	14.5	0.5	16	70	-10	160	VITON	0.93
T-ExYA 404	S7080.04	3/4"	17	0.5	16	85	-10	160	VITON	1.02
T-ExYA 405	S7080.05	1"	17	0.5	16	90	-10	160	VITON	1.19
T-ExYA 406	S7080.06	11/4"	46	0.5	12	390	-10	160	VITON	2.87
T-ExYA 407	S7080.07	11/2"	46	0.5	12	460	-10	160	VITON	2.77
T-ExYA 408	S7080.08	2"	46	0.5	12	580	-10	160	VITON	3.2

**Useful Informations**

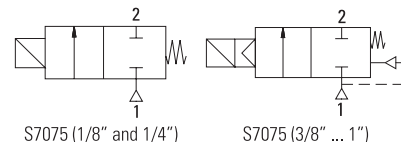
1 bar:14,5 PSI:10 mHzO:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:FPM (VITON):Fluoro-Carbon Elastomer

B

**GENERAL FEATURES**

- TORK series S7075 direct acting (for 1/8" and 1/4") and diaphragm explosion proof vacuum solenoid valves (3/8", 1/2", 3/4" and 1") are 2/2 way normally closed and direct and pilot operated
- Explosion proof solenoid valves for use in zone 1 and zone 2
- Suitable for gaseous fluids (air, inert gases etc...)
- Suitable for vacuum applications
- Working Temperature: -10°C / +80°C
- High reliability, quality and performance; long life, corrosion resistance
- On request; solenoid valve can have 1 mounting hole at the bottom of the body. (designed for sub-base or direct mounting on the equipment) (for direct acting models)
- 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**

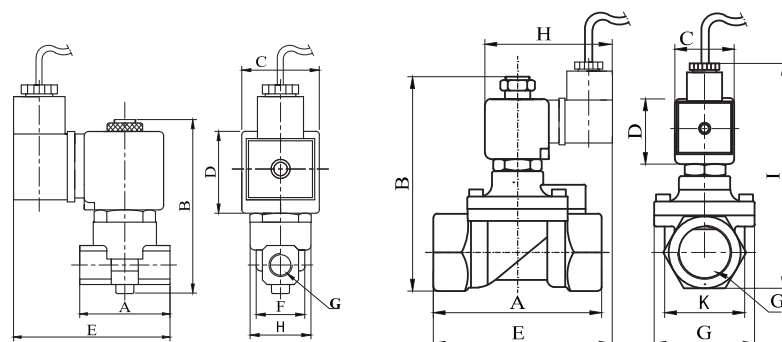


**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Explosionproof operator, intended for use in potentially explosive atmospheres
- Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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 and brass (for pilot operated)
- 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)



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	

Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I	J
3/8"	74	97	32	45	109.3	37.5	52	73.4	111	42.3	
1/2"	79	100	32	45	110	39.8	52	73.4	112	42.3	
3/4"	80	107.3	32	45	112	41.5	52	73.4	120.5	42.3	
1"	85	115	32	45	115	42.5	52	73.4	126.5	42.3	

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)
- Response Time: Opening Time: 400 ms to ~ 1600 ms,  
Closing Time: 1000 ms to ~ 2000 ms (for pilot operated)
- Opening Time: 30 ms, Closing Time : 30 ms (for direct acting)
- Maximum Allowable Pressure: 6 bar
- Fluid Temperature for FPM (VITON) from -10°C; +160°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-ExVA	S7075	G	mm	bar	bar	lt/min	°C			(kg)
T-ExVA 300	S7075.00.040	1/8"	4	-1	4	6.4	-10	80	NBR	0.59
T-ExVA 301	S7075.01.040	1/4"	4	-1	4	6.4	-10	80	NBR	0.58
T-ExVA 302	S7075.02	3/8"	12.5	-1	3	38	-10	80	NBR	0.85
T-ExVA 303	S7075.03	1/2"	14.5	-1	3	62	-10	80	NBR	0.88
T-ExVA 304	S7075.04	3/4"	17	-1	3	85	-10	80	NBR	0.96
T-ExVA 305	S7075.05	1"	17	-1	3	100	-10	80	NBR	1.13

**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

**GENERAL FEATURES**

- **TORK series S7076 explosion proof pulse valves are 2/2 way normally closed.**
- **Suitable for air**
- **Explosion proof valves for use in zone 1 and zone 2**
- The pulse valves are especially designed for dust collector service application or similar systems
- **Compact design, high reliability, flow rate, quality and performance; long life .**
- Extremely fast opening and closing
- Working Temperature:-10°C / +110°C
- **Minimum operating differential pressure 0,5 bar**
- **On request; with electronic timer**
- TORK pulse 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
- Pulse valves must be used with filtered fluids.
- Pulse 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters

Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C,  
 em:encapsulation increased safety, II:Equipment group)

Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector

Electrical Safety : IEC 335  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
 For DC 12V, 24V, 48V, 110 V

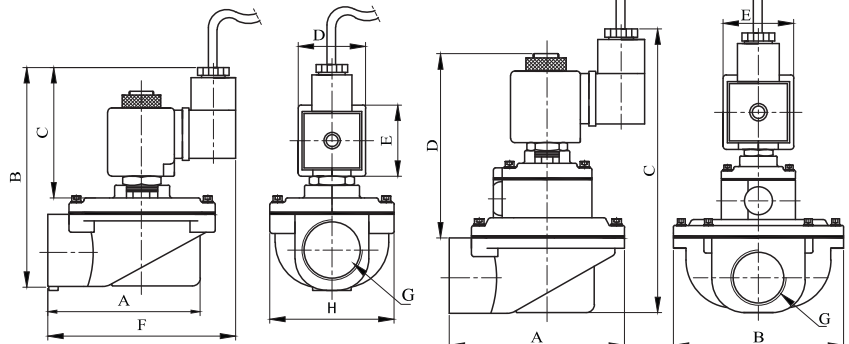
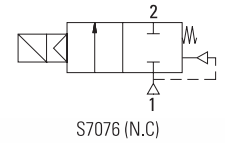
Other voltages on request;  
 Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%  
 Frequency : 50 Hz , other frequencies on request; (60 Hz)  
 Specify coil voltage with order

**MATERIALS IN CONTACT WITH FLUID**

Body : Die Cast Aluminium  
 Internal Parts : Stainless Steel  
 Sealing : Neoprane or NBR  
 Shading Ring : Copper  
 Seats : Aluminium  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel

Response Time : Opening Time:100 ms,  
 Closing Time :100 ms

**Normally Closed**



Dimensions (mm)

	G	A	B	C	D	E	F	H
3/4"	73,5	128,5	75	32	39	75	74,3	
1"	73,5	128,5	75	32	39	75	74,3	

Dimensions (mm)

	G	A	B	C	D	E
1 1/2"	126	136	188	127	32	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight
T-ExPAT	S7076	G	mm	bar	bar	lt/min	°C	(kg)
						min	max	
T-ExPAT 500	S7076.04	3/4"	20	0,5	8	150	-10 110	NEOPRANE 0,91
T-ExPAT 501	S7076.05	1"	25	0,5	8	270	-10 110	NEOPRANE 0,9
T-ExPAT 502	S7076.07	11/2"	40	0,5	8	774	-10 110	NBR 1,60
T-ExPAT 503	S7076.08	2"	50	0,5	9,8	1065	-10 110	NBR 2,45
T-ExPAT 504	S7076.09	21/2"	65	0,5	9,8	1378	-10 110	NBR 3,67
T-ExPAT 505	S7076.10	3"	80	0,5	9,8	2040	-10 110	NBR 4

**Useful Informations**

1 bar:14,5 PSI:10 mH2O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F

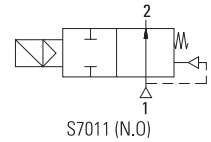
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**GENERAL FEATURES**

- **New design, internal exhaust system**
- **TORK series S7011 diaphragm explosion proof solenoid valves are 2/2 way normally open and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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))

**NEW**

**Normally Open**



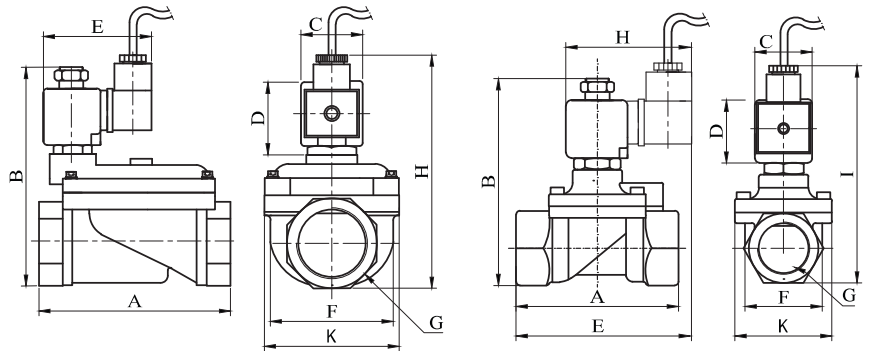
**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Safety mode : Explosionproof operator, intended for use in potentially explosive atmospheres
- Easy electrical installation by means of the cable, standard length 3 meters
- Protection Degree : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Electrical Safety : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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 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; sealing can be FPM (VITON), EPDM



Dimensions (mm)

	G	A	B	C	D	E	F	K	H
1 1/4"	141	147	32	45	76	96.5	110.7	156	
1 1/2"	139	147	32	45	76	96.5	110.7	156	
2"	145.6	157	32	45	76	96.5	110.7	165.5	

Dimensions (mm)

	G	A	B	C	D	E	F	K	H	I
3/8"	75	102.5	32	45	91.3	37.5	52	76	108	
1/2"	79	104.5	32	45	92	39.5	52	76	110	
3/4"	79	112.5	32	45	94	41.5	52	76	118	
1"	85	120.5	32	45	101	42.5	52	76	124	

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,  
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 20 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 min / max	KV	Fluid Temperature	Seal	Weight		
T-ExGN	S7011	G	mm	bar	bar	lit/min	min °C	max	(kg)	
T-ExGN 102	S7011.02	3/8"	12.5	0.5	12	48	-10	80	NBR	0.91
T-ExGN 103	S7011.03	1/2"	14.5	0.5	12	70	-10	80	NBR	0.94
T-ExGN 104	S7011.04	3/4"	17	0.5	12	85	-10	80	NBR	1.03
T-ExGN 105	S7011.05	1"	17	0.5	12	90	-10	80	NBR	1.2
T-ExGN 106	S7011.06	1 1/4"	46	0.5	10	390	-10	80	NBR	2.88
T-ExGN 107	S7011.07	1 1/2"	46	0.5	10	460	-10	80	NBR	2.78
T-ExGN 108	S7011.08	2"	46	0.5	10	580	-10	80	NBR	3.21

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- New design, internal exhaust system
- Full orifice solenoid valves
- TORK series S7031(N.O) diaphragm explosion proof solenoid valves are 2/2 way normally open and pilot operated
- Explosion proof solenoid valves for use in zone 1 and zone 2
- 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 0,35 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 EEx em II T4/T5 (Max Surface Temperature:100°C -135°C, em:encapsulation increased safety, II:Equipment group)  
 Safety mode : IEC 335  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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

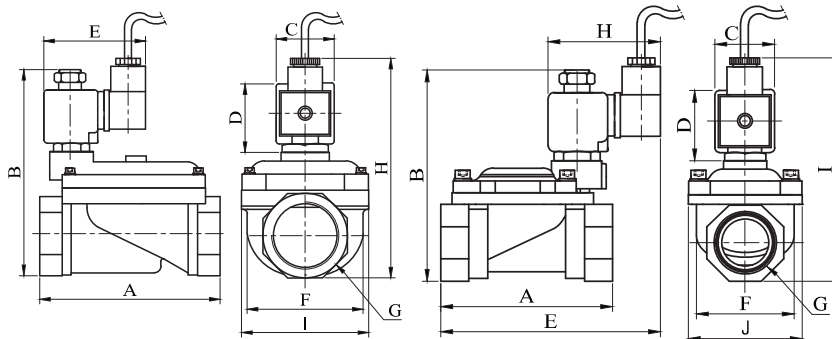
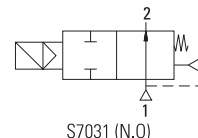
**MATERIALS IN CONTACT WITH FLUID**

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

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:400 ms to ~ 1600 ms ,  
 Closing Time :1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure: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	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	107.5	32	45	115.8	42.1	52	76	121	
1"	87.9	115	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 min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	max		
<b>T-ExGLN</b>	<b>S7031</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-ExGLN 102	S7031.02	3/8"	12.5	0.35	12	45	-10 80	NBR	0.91	
T-ExGLN 103	S7031.03	1/2"	12.5	0.35	12	65	-10 80	NBR	0.88	
T-ExGLN 104	S7031.04	3/4"	20	0.5	12	120	-10 80	NBR	0.89	
T-ExGLN 105	S7031.05	1"	25	0.5	12	170	-10 80	NBR	1.03	
T-ExGLN 106	S7031.06	11/4"	46	0.5	10	390	-10 80	NBR	2.88	
T-ExGLN 107	S7031.07	11/2"	46	0.5	10	460	-10 80	NBR	2.78	
T-ExGLN 108	S7031.08	2"	46	0.5	10	580	-10 80	NBR	3.21	

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitri-le-Butylene Elastomer , FPM (VITON):Fluoro-Carbon Elastomer, EPDM:Ethylene-Propylene Elastomer

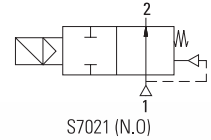
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**GENERAL FEATURES**

- **TORK series S7021 (N.O)** diaphragm explosion proof solenoid valves are 2/2 way normally open and pilot operated
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **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 (for 3/8", 1/2", 3/4", 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).
- 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**

**DON'T REQUIRE ANY DIFFERENTIAL PRESSURE**



**ELECTRICAL CHARACTERISTICS**

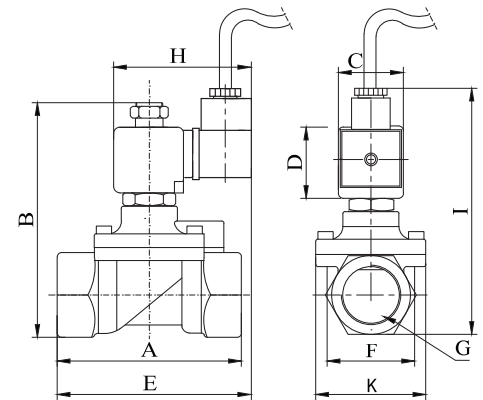
- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em: encapsulation increased safety, II: Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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 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



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	107.5	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-ExGZN	S7021	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-ExGZN 102	S7021.02	3/8"	12.5	0	12	38	-10	80	NBR	0.92
T-ExGZN 103	S7021.03	1/2"	14.5	0	12	62	-10	80	NBR	0.95
T-ExGZN 104	S7021.04	3/4"	17	0	12	85	-10	80	NBR	1.03
T-ExGZN 105	S7021.05	1"	17	0	12	100	-10	80	NBR	1.21

**Useful Informations**

1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F  
 Sealings: NBR: Nitri-le-Butylene Elastomer , FPM (VITON): Fluoro-Carbon Elastomer, EPDM: Ethylene-Propylene Elastomer

**GENERAL FEATURES**

- TORK series S7071 diaphragm explosion proof steam solenoid valves are 2/2 way normally open and direct acting
- Explosion proof solenoid valves for use in zone 1 and zone 2
- Internal exhaust system
- Especially for overheated water and steam
- Suitable for liquids and gaseous fluids
- Working Temperature: -10°C / +140°C and 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 : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)
- Explosionproof operator, intended for use in potentially explosive atmospheres
- Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C, em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- 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

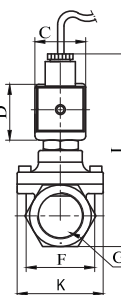
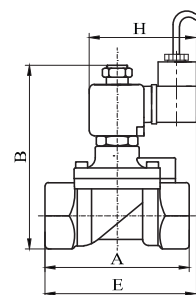
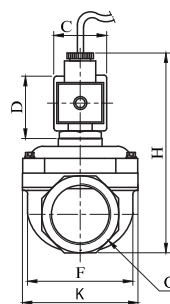
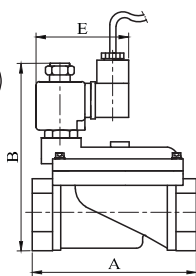
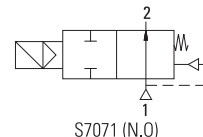
**MATERIALS IN CONTACT WITH FLUID**

- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : PTFE ( for 3/8", 1/2", 3/4", 1") and EPDM ( for 11/4", 11/2", 2")
- 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 mm<sup>2</sup>/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,  
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 5 bar

**Normally Open**



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	

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	17.5	32	45	94	41.5	52	76	118	
1"	85	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
				bar	bar		min	max		
<b>T-ExBN</b>	<b>S7071</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>max</b>		<b>(kg)</b>
T-ExBN 202	S7071.02	3/8"	12.5	0.5	5	48	-10	160	PTFE	0.91
T-ExBN 203	S7071.03	1/2"	14.5	0.5	5	70	-10	160	PTFE	0.94
T-ExBN 204	S7071.04	3/4"	17	0.5	5	85	-10	160	PTFE	1.03
T-ExBN 205	S7071.05	1"	17	0.5	5	90	-10	160	PTFE	1.2
T-ExBN 206	S7071.06	11/4"	46	0.5	3	390	-10	140	EPDM	2.88
T-ExBN 207	S7071.07	11/2"	46	0.5	3	460	-10	140	EPDM	2.78
T-ExBN 208	S7071.08	2"	46	0.5	3	580	-10	140	EPDM	3.21

**Useful Informations**

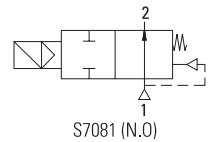
1 bar: 14,5 PSI: 10 mH<sub>2</sub>O: 10 N/cm<sup>2</sup>: 1 kg/cm<sup>2</sup>: 100000 Pa , 1 PSI: 69 mbar, 1 m<sup>3</sup>/h: 4,405 GPM: 16,7 L/d 1 Gallon / minute: 0,227 m<sup>3</sup>/h, 0°C: 89,6 F, 2 bar steam: 133°C , 3 bar steam: 144 °C, 4 bar steam: 151°C, 5 bar steam: 160°C, 6 bar steam: 165°C  
Sealings:FPM (VITON);Fluoro-Carbon Elastomer

B

**GENERAL FEATURES**

- **TORK series S7081 diaphragm explosion proof fuel oil solenoid valves are 2/2 way normally open and pilot operated**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Suitable for non-aggressive liquids fuel oil, hydraulic oil, light oil (2E), overheated water and steam fluids**
- 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))

**Normally Open**



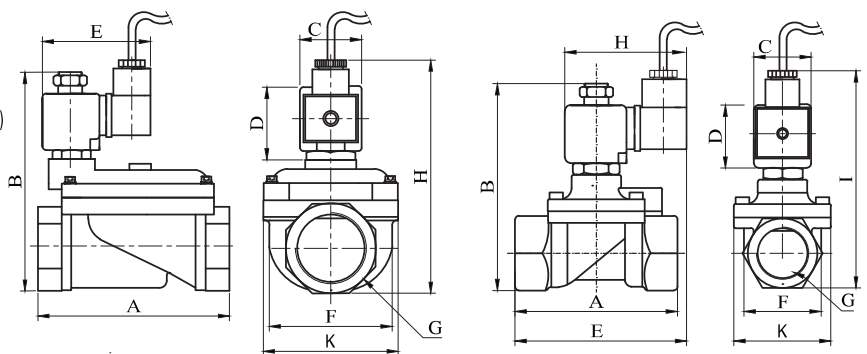
**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Safety mode : Explosion proof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 em:encapsulation increased safety, II:Equipment group  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 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 and brass  
 Sealing : FPM (VITON)  
 Shading Ring : Copper  
 Seats : Brass  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel  
 On request; nickel plated body



Dimensions (mm)

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

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

**TECHNICAL FEATURES**

- Max Viscosity : 5"E (-37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time:400 ms to ~ 1600 ms,  
 Closing Time:1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure:20 bar

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		
<b>T-ExYNA</b>	<b>S7081</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>min</b>	<b>°C max</b>		<b>(kg)</b>
T-ExYNA 402	S7081.02	3/8"	12.5	0.5	12	48	-10	160	VITON	0.91
T-ExYNA 403	S7081.03	1/2"	14.5	0.5	12	70	-10	160	VITON	0.94
T-ExYNA 404	S7081.04	3/4"	17	0.5	12	85	-10	160	VITON	1.03
T-ExYNA 405	S7081.05	1"	17	0.5	12	90	-10	160	VITON	1.2
T-ExYNA 406	S7081.06	1 1/4"	46	0.5	10	390	-10	160	VITON	2.88
T-ExYNA 407	S7081.07	1 1/2"	46	0.5	10	460	-10	160	VITON	2.78
T-ExYNA 408	S7081.08	2"	46	0.5	10	580	-10	160	VITON	3.21

**Useful Informations**

1 bar:14,5 PSI:10 mHzO:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:FPM (VITON):Fluoro-Carbon Elastomer



**GENERAL FEATURES**

- **TORK series S7079 diaphragm manual reset explosion proof gas solenoid valves are 2/2 way normally open**
- **Explosion proof solenoid valves for use in zone 1 and zone 2**
- **Because of low electric consumption during normal operation there is no abrasion, rumble etc.. and provides electric saving**
- **For domestic application out side the house. While using with a gas alarm controller it takes the signal from teh controller and stops the gas flow**
- **Suitable natural gas, LPG, methane, propane, butane, city gas, air, non-corrosive gases (number 3 gas group) that are compatible with the construction materials used in the valves.**
- Working Temperature:-10°C / +80°C
- **Don't require any differential pressure**
- Response Time:less than 1 second
- Maximum Allowable Pressure:1 bar
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- 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 Rp (ISO 7-1) and G (ISO 228-1) on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Open**

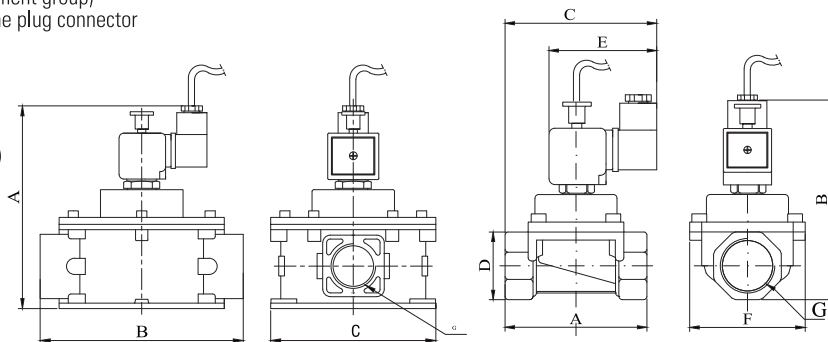


**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters
- Safety mode : EEx em II T4/T5 (Max Surface Temperature:100°C -135°C,  
 em:encapsulation increased safety, II:Equipment group)
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 220V  
 For DC 12V
- 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 : Aluminium  
 Internal Parts : Stainless Steel and brass  
 Sealing : NBR  
 Shading Ring : Copper  
 Seats : Aluminium  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel



Dimensions (mm)

G	A	B	C
11/4"	180	160	140
11/2"	180	160	140
2"	180	160	140

Dimensions (mm)

G	A	B	C	D	E	F
3/8"	86	142	101	41	75.5	70
1/2"	86	142	101	41	75.5	70
3/4"	86	142	101	41	75.5	70
1"	86	142	101	41	75.5	70

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	Q	Fluid Temperature	Seal	Weight		
T-ExGV	S7079		mm	bar	bar	m <sup>3</sup> /h	min °C	max	(kg)	
T-ExGV 802	S7079.02	3/8"	24	0	0.5	10	-10	80	NBR	0.84
T-ExGV 803	S7079.03	1/2"	24	0	0.5	14	-10	80	NBR	0.83
T-ExGV 804	S7079.04	3/4"	24	0	0.5	32	-10	80	NBR	0.82
T-ExGV 805	S7079.05	1"	24	0	0.5	38	-10	80	NBR	0.75
T-ExGV 806	S7079.06	11/4"	40	0	0.5	105	-10	80	NBR	1.82
T-ExGV 807	S7079.07	11/2"	40	0	0.5	125	-10	80	NBR	1.77
T-ExGV 808	S7079.08	2"	50	0	0.5	145	-10	80	NBR	1.92

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa , 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitrile-Butylene Elastomer

**Note:** Flow rate is ΔP = 10 mbar measurement (for natural gas)

B

**GENERAL FEATURES**

- TORK series S7086 diaphragm explosion proof manuel reset gas solenoid valves are 2/2 way normally open
- Explosion proof solenoid valves for use in zone 1 and zone 2
- Suitable for use in 220 AC only and equipped with a special connector
- For domestic applications out side the house. While using with a gas alarm controller it takes the signal from the controller and stops the gas flow
- Suitable for natural gas, LPG, methane, propane, butane, city gas, air, non-corrosive gases (number 3 gas group) that are compatible with the construction materials used in the valves.
- Working Temperature: -10°C / +80°C
- Dont require a differential pressure
- Response Time: less than 1 second
- Maximum Allowable Pressure: 1 bar
- High reliability, quality and performance; long life, corrosion resistance
- Wide range of flow rate and orifice options
- 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 Rp (ISO 7-1) and G (ISO 228-1) on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Open**



**ELECTRICAL CHARACTERISTICS**

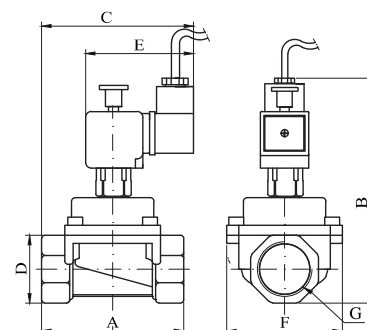
- Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Coil Encapsulation Material : Fiber Glass Reinforced or PP-V0 (Self-Extinguishing Polypropylene)  
 Explosionproof operator, intended for use in potentially explosive atmospheres  
 Easy electrical installation by means of the cable, standard length 3 meters  
 Safety mode : EEx em II T4/T5 (Max Surface Temperature: 100°C -135°C,  
 em: encapsulation increased safety, II: Equipment group)  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 230V  
 Other voltages on request;  
 Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%  
 Frequency : 50 Hz, other frequencies on request; (60 Hz)

**MATERIALS IN CONTACT WITH FLUID**

- Body : Aluminium  
 Internal Parts : Stainless Steel and brass  
 Sealing : NBR  
 Shading Ring : Copper  
 Seats : Aluminium  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel

**TECHNICAL FEATURES**

- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)  
 Response Time : Opening Time : 400 ms to ~ 1600 ms,  
 Closing Time : 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 6 bar



Dimensions (mm)

	G	A	B	C	D	E	F
3/8"	86	151	101	41	75.5	70	
1/2"	86	151	101	41	75.5	70	
3/4"	86	151	101	41	75.5	70	
1"	86	151	101	41	75.5	70	

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		
<b>T-ExGVC</b>	<b>S7086</b>		<b>mm</b>			<b>lt/min</b>				<b>(kg)</b>
T-ExGVC 802	S7086.02	3/8"	24	0	0.5	10	-10	80	NBR	0.62
T-ExGVC 803	S7086.03	1/2"	24	0	0.5	14	-10	80	NBR	0.61
T-ExGVC 804	S7086.04	3/4"	24	0	0.5	32	-10	80	NBR	0.6
T-ExGVC 805	S7086.05	1"	24	0	0.5	38	-10	80	NBR	0.53

**Useful Informations**

1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:NBR:Nitrile-Butylene Elastomer