

GENERAL FEATURES

- **TORK series S8210 direct acting group solenoid valves are 2/2 way normally closed**
- **Direct acting manifold with operators.**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature: -10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- **On request; 1, 8, 3 and 4 mm orifice and high flow rate**
- Valve referred to each single operator
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

Normally Closed



ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100
 Coil Insulation Class : H (180°C)
 Coil Impregnation : Polyester Fiber Glass
 Coil Encapsulation Material : Fiber Glass Reinforced
 Ambient Temperature : from -10°C; +60°C
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø6-8 mm)
 Electrical Safety : IEC 335
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V
 For DC 12V, 24V, 48V, 110 V

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

MATERIALS IN CONTACT WITH FLUID

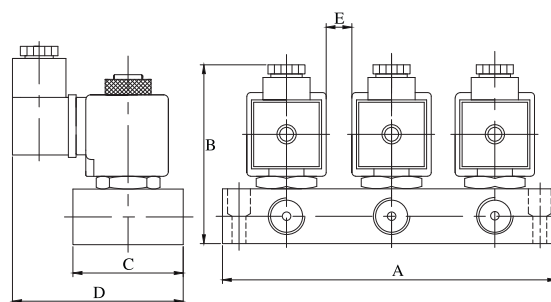
Body : Brass
 Internal Parts : Stainless Steel
 Sealing : NBR
 Shading Ring : Copper
 Seats : Brass
 Core Tube : Stainless Steel
 Springs : Stainless Steel
 On request; nickel plated body
 On request; sealing can be FPM (VITON), EPDM

TECHNICAL FEATURES

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

Code Explain: S8210.00.025 - 2 - 1

2 inlet connection 1 outlet connection



Dimensions (mm)

	G	A	B	C	D	E
1/8"	125	85	40	77	6.2	
1/4"	125	85	40	77	6.2	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight		
T-GF	S8210	G	mm	bar	bar	lt/min	min °C	max	(kg)	
T-GF 100.2,5-1-2	S8210.00.025.12	1/8"	2.5	0	12	2.8	-10	80	NBR	1.05
T-GF 100.2,5-1-3	S8210.00.025.13	1/8"	2.5	0	12	2.8	-10	80	NBR	1.55
T-GF 100.2,5-1-4	S8210.00.025.14	1/8"	2.5	0	12	2.8	-10	80	NBR	2.05
T-GF 100.2,5-2-1	S8210.00.025.21	1/8"	2.5	0	12	2.8	-10	80	NBR	0.87
T-GF 100.2,5-3-1	S8210.00.025.31	1/8"	2.5	0	12	2.8	-10	80	NBR	1.25
T-GF 100.2,5-4-1	S8210.00.025.41	1/8"	2.5	0	12	2.8	-10	80	NBR	1.48
T-GF 101.2,5-1-2	S8210.01.025.12	1/4"	2.5	0	12	2.8	-10	80	NBR	0.95
T-GF 101.2,5-1-3	S8210.01.025.13	1/4"	2.5	0	12	2.8	-10	80	NBR	1.45
T-GF 101.2,5-1-4	S8210.01.025.14	1/4"	2.5	0	12	2.8	-10	80	NBR	1.95
T-GF 101.2,5-2-1	S8210.01.025.21	1/4"	2.5	0	12	2.8	-10	80	NBR	0.77
T-GF 101.2,5-3-1	S8210.01.025.31	1/4"	2.5	0	12	2.8	-10	80	NBR	1.15
T-GF 101.2,5-4-1	S8210.01.025.41	1/4"	2.5	0	12	2.8	-10	80	NBR	1.38

Useful Informations

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

GENERAL FEATURES

- **TORK series S8211 direct acting group solenoid valves are 2/2 way normally open**
- **Direct acting manifold with operators.**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature:-10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- **On request; 1,8 mm and 3 mm orifice and high flow rate**
- Value referred to each single operator
- 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 : Polyester Fiber Glass
 Coil Encapsulation Material : Fiber Glass Reinforced
 Ambient Temperature : from -10°C; +60°C
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø6-8 mm)

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

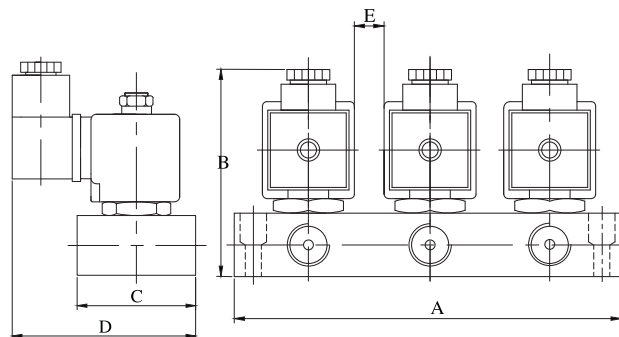
Other voltages on request;
 Voltage Tolerances : For AC -15%; +10%, For DC -5%; +10%
 Frequency : 50 Hz, other frequencies on request; (60 Hz)
 On request; connector with LED
 Specify coil voltage with order

MATERIALS IN CONTACT WITH FLUID TECHNICAL FEATURES

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

Max Viscosity : 5°E (-37cSt or mm²/s)
 Response Time : Opening Time:30 ms,
 Closing Time:30 ms
 Maximum Allowable Pressure:20 bar
 Fluid Temperature for FPM (VITON) from -10°C; +160°C,
 for EPDM from -10°C; +140°C
 Code Explain: S8211.00.025-2 - 1

2 inlet connection 1 outlet connection



Dimensions (mm)

	G	A	B	C	D	E
1/8"	125	85	40	77	6.2	
1/4"	125	85	40	77	6.2	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	°C max		
T-GFN	S8211	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-GFN 100.2,5-1-2	S8211.00.025.12	1/8"	2.5	0	10	2.8	-10	80	NBR	1.25
T-GFN 100.2,5-1-3	S8211.00.025.13	1/8"	2.5	0	10	2.8	-10	80	NBR	1.75
T-GFN 100.2,5-1-4	S8211.00.025.14	1/8"	2.5	0	10	2.8	-10	80	NBR	2.25
T-GFN 100.2,5-2-1	S8211.00.025.21	1/8"	2.5	0	10	2.8	-10	80	NBR	1.07
T-GFN 100.2,5-3-1	S8211.00.025.31	1/8"	2.5	0	10	2.8	-10	80	NBR	1.45
T-GFN 100.2,5-4-1	S8211.00.025.41	1/8"	2.5	0	10	2.8	-10	80	NBR	1.68
T-GFN 101.2,5-1-2	S8211.01.025.12	1/4"	2.5	0	10	2.8	-10	80	NBR	1.15
T-GFN 101.2,5-1-3	S8211.01.025.13	1/4"	2.5	0	10	2.8	-10	80	NBR	1.65
T-GFN 101.2,5-1-4	S8211.01.025.14	1/4"	2.5	0	10	2.8	-10	80	NBR	2.15
T-GFN 101.2,5-2-1	S8211.01.025.21	1/4"	2.5	0	10	2.8	-10	80	NBR	0.97
T-GFN 101.2,5-3-1	S8211.01.025.31	1/4"	2.5	0	10	2.8	-10	80	NBR	1.35
T-GFN 101.2,5-4-1	S8211.01.025.41	1/4"	2.5	0	10	2.8	-10	80	NBR	1.58

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:Nitri-le-Butylene Elastomer, FPM (VITON):Fluoro-Carbon Elastomer

GENERAL FEATURES

- **TORK series S8275 direct acting group solenoid valves are 3/2 way normally closed**
- **Direct acting manifold with operators.**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- Working Temperature:-10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Don't require any differential pressure**
- Compact and low weight valve enabling easy and quick installation
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- **On request; 1,8 mm orifice and high flow rate**
- Value referred to each single operator
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

Normally Closed



ELECTRICAL CHARACTERISTICS

Continuous Duty : ED %100
 Coil Insulation Class : H (180°C)
 Coil Impregnation : Polyester Fiber Glass
 Coil Encapsulation Material : Fiber Glass Reinforced
 Ambient Temperature : from -10°C; +60°C
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø6-8 mm)

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



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

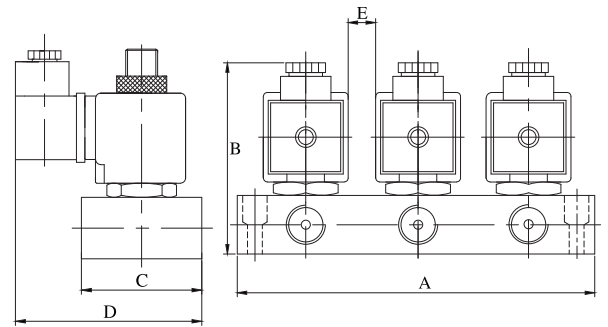
MATERIALS IN CONTACT WITH FLUID

Body : 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

TECHNICAL FEATURES

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

Code Explain: S8275.00.025 - 2 - 1



Dimensions (mm)

	G	A	B	C	D	E
1/8"	125	85	40	77	6.2	
1/4"	125	85	40	77	6.2	

2 inlet connection 1 outlet connection

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-GFE.3W	S8275	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-GFE.3W 100.2,5-1-2	S8275.00.025.12	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.05
T-GFE.3W 100.2,5-1-3	S8275.00.025.13	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.55
T-GFE.3W 100.2,5-1-4	S8275.00.025.14	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	2.05
T-GFE.3W 100.2,5-2-1	S8275.00.025.21	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	0.87
T-GFE.3W 100.2,5-3-1	S8275.00.025.31	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.25
T-GFE.3W 100.2,5-4-1	S8275.00.025.41	1/8"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.48
T-GFE.3W 101.2,5-1-2	S8275.01.025.12	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	0.95
T-GFE.3W 101.2,5-1-3	S8275.01.025.13	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.45
T-GFE.3W 101.2,5-1-4	S8275.01.025.14	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.95
T-GFE.3W 101.2,5-2-1	S8275.01.025.21	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	0.77
T-GFE.3W 101.2,5-3-1	S8275.01.025.31	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.15
T-GFE.3W 101.2,5-4-1	S8275.01.025.41	1/4"	2.5	0	1 10	1-2=2,8 , 2-3=1,35	-10	80	NBR	1.38

Useful Informations

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