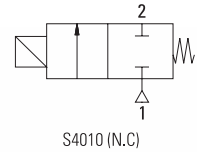


B

**GENERAL FEATURES**

- **Small body size.**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam)**
- 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).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

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

**MATERIALS IN CONTACT WITH FLUIDS**

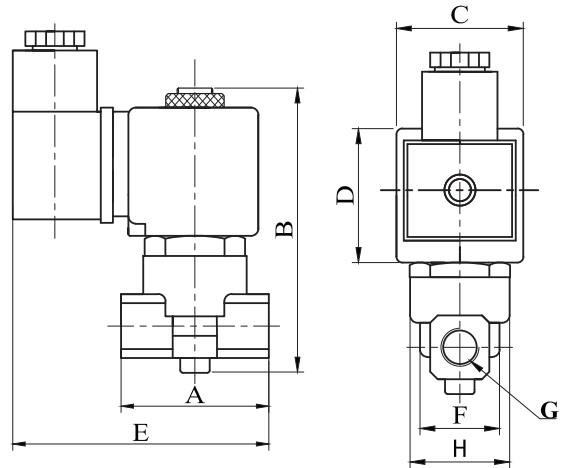
- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : RUBY
- Shading Ring : Copper
- Seats : Stainless Steel
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body

**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



Application



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	max		
<b>T-Y</b>	<b>S4010</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-Y 400	S4010.00.025	1/8"	2.5	0	30	3.2	-10	160	RUBY	0.37
T-Y 400.3,2	S4010.00.032	1/8"	3.2	0	20	5	-10	160	RUBY	0.37
T-Y 401	S4010.01.025	1/4"	2.5	0	30	3.2	-10	160	RUBY	0.36
T-Y 401.3,2	S4010.01.032	1/4"	3.2	0	20	5	-10	160	RUBY	0.36

**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**

- **Small body size.**
- **High working pressure for connections 1/8" and 1/4"**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam**
- 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).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3)).

**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

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

**MATERIALS IN CONTACT WITH FLUIDS**

- 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; 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:100 bar

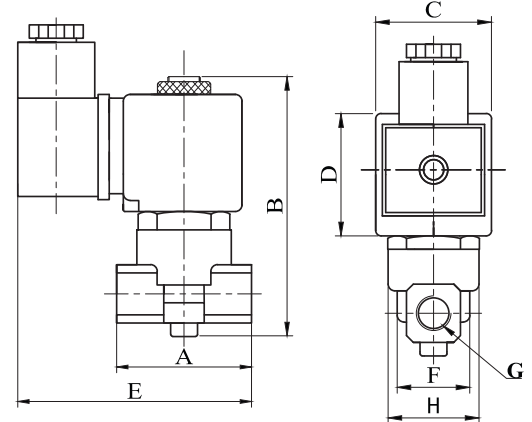
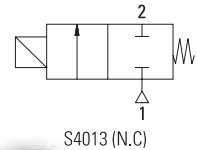
Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-YH	S4013	G	mm	bar	bar	lt/min	°C			(kg)
T-YH 400.1	S4013.00.010	1/8"	1	0	100	0.6	-10	160	VITON	0.36
T-YH 400.1,8	S4013.00.018	1/8"	1.8	0	50	1.6	-10	160	VITON	0.36
T-YH 400.2,5	S4013.00.025	1/8"	2.5	0	20	3.2	-10	160	VITON	0.36
T-YH 401.1	S4013.01.010	1/4"	1	0	100	0.6	-10	160	VITON	0.35
T-YH 401.1,8	S4013.01.018	1/4"	1.8	0	50	1.6	-10	160	VITON	0.35
T-YH 401.2,5	S4013.01.025	1/4"	2.5	0	20	3.2	-10	160	VITON	0.35

**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

High Pressure

Normally Closed



Dimensions (mm)

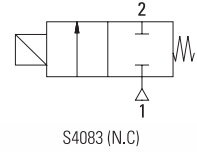
	G	A	B	C	D	E	F	H
1/8"	40	90	32	39	78	22.3	25.6	
1/4"	40	90	32	39	78	22.3	25.6	

B

**GENERAL FEATURES**

- **TORK series S4083 direct acting plate mounting solenoid valves are 2/2 way normally closed and designed for sub-base or mounting on the equipment**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, inert gases etc...)**
- **Inlet and outlet ports placed asymmetrically at the bottom of the body**
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- Valve delivered with sealing o-rings
- **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
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners
- Coils interchangeable without
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation ; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

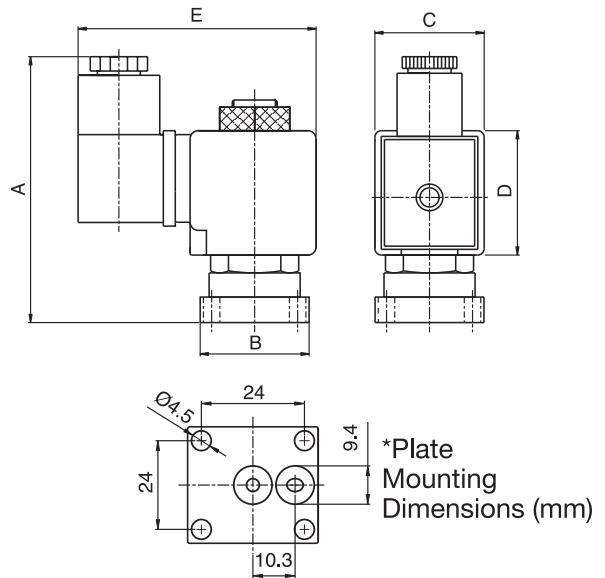
- Other voltages on request;
- Voltage Tolerances : For AC %-15 ; %+10, For DC %-5 ; %+10
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

**MATERIALS IN CONTACT WITH FLUIDS**

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



Dimensions (mm)

G	A	B	C	D	E
*	83	30	32	39	74

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight	
T-YP	S4083	G	mm	bar	bar	min °C		(kg)	
T-YP 400	S4083.032		3.2	0	30	-10	160	RUBY	0.5

**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, RUBY:Synthetic Corundum

**GENERAL FEATURES**

- **Small body size.**
- **Internal exhaust system**
- **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
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation ; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3 ))

**ELECTRICAL CHARACTERISTICS**

Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Polyester Fiber Glass  
 Coil Encapsulation Material: Fiber Glass Reinforced  
 Ambient Temperature : from -10°C ; +60°C  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)  
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm )  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
 For DC 12V, 24V, 48V, 110 V

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

**MATERIALS IN CONTACT WITH FLUIDS**

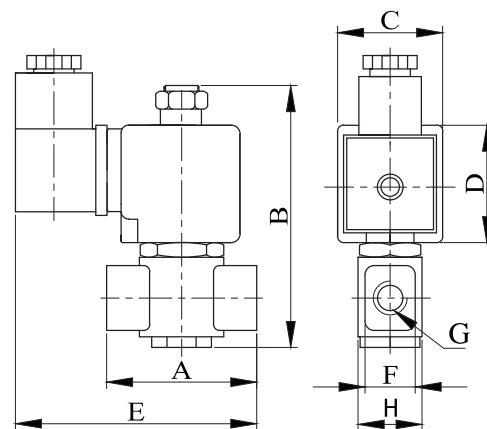
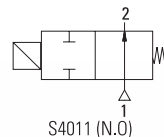
Body : Brass  
 Internal Parts : Stainless Steel  
 Sealing : RUBY  
 Shading Ring : Copper  
 Seats : Stainless Steel  
 Core Tube : Stainless Steel  
 Springs : Stainless Steel  
 On request; nickel plated body

**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	32	39	74	18	25	
1/4"	40	82	32	39	74	18	25	

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-YN</b>	<b>S4011</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-YN 400	S4011.00.025	1/8"	2.5	0	30	3.2	-10	160	RUBY	0.38
T-YN 400.3,2	S4011.00.032	1/8"	3.2	0	20	5	-10	160	RUBY	0.38
T-YN 401	S4011.01.025	1/4"	2.5	0	30	3.2	-10	160	RUBY	0.37
T-YN 401.3,2	S4011.01.032	1/4"	3.2	0	20	5	-10	160	RUBY	0.37

**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**

- **Small body size.**
- **Valves used on especially exhaust systems**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam**
- 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 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)
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation ; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V
- Other voltages on request;
- Voltage Tolerances : For AC %-15 ; %+10, For DC %-5 ; %+10
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

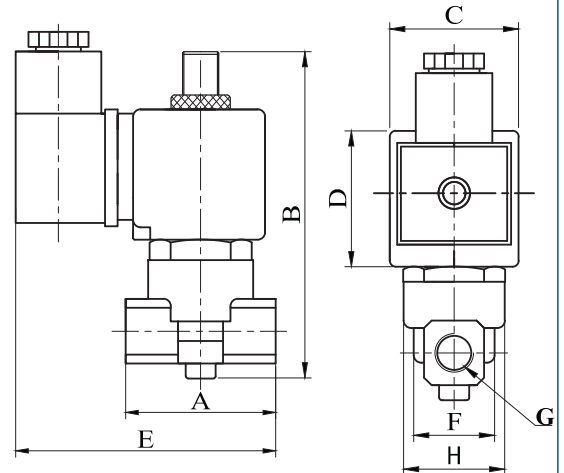
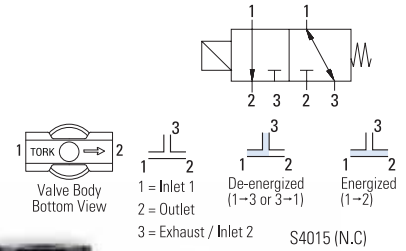
**MATERIALS IN CONTACT WITH FLUIDS**

- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : RUBY
- 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 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		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
T-Y.3W	S4015	G	mm	bar	bar	lt/min	min	max	°C	(kg)
T-Y.3W 400.2,5	S4015.00.025	1/8"	2.5	0	30	1-2=2,7, 2-3=2,7	-10	160	RUBY	0.37
T-Y.3W 401.2,5	S4015.01.025	1/4"	2.5	0	30	1-2=2,7, 2-3=2,7	-10	160	RUBY	0.36

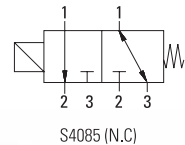
**Useful Informations**

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

**GENERAL FEATURES**

- **TORK series S4085 direct acting plate mounting solenoid valves are 3/2 way normally closed and designed for sub-base or mounting on the equipment**
- **Suitable for non-aggressive liquids (water, light oil (2E) etc...), gaseous fluids (air, iner gases etc...)**
- **Inlet and outlet ports placed asymmetricaly at the bottom of the body**
- Working Temperature:-10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- Valve delivered with sealing o-rings
- **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
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD)
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

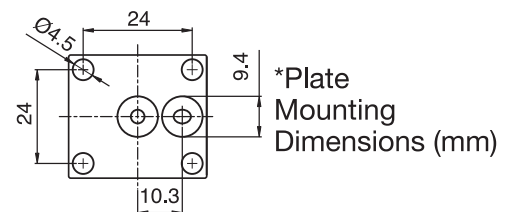
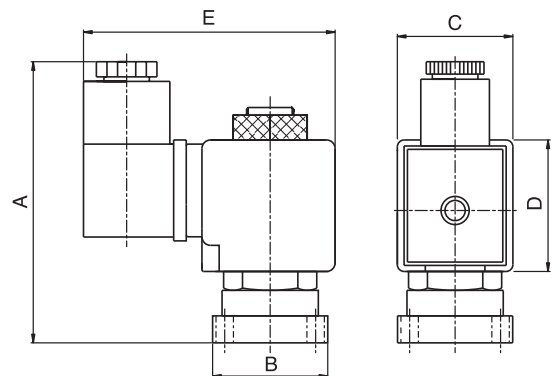
- Other voltages on request;
- Voltage Tolerances : For AC %-15 ; %+10, For DC %-5 ; %+10
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

**MATERIALS IN CONTACT WITH FLUIDS**

- 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
- 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
- Fluids Temperature for FPM (VITON) from -10°C ; +160°C,



Dimensions (mm)

G	A	B	C	D	E
*	83	30	32	39	74

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max	KV	Fluid Temperature	Seal	Weight
T-YP.3W	S4085	G	mm	bar bar	lt/min	min °C max		(kg)
T-YP.3W 400	S4085.018		1.8	0 30	1-2=1,35 , 2-3=1,35	-10 160	RUBY	0.5

**Useful Informations**

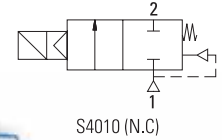
1 bar:14,5 PSI:10 mH<sub>2</sub>O :10 N/cm<sup>2</sup> :1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
Sealings:FPM (VITON);Fluoro-Carbon Elastomer, RUBY:Synthetic Corundum

B

**GENERAL FEATURES**

- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam)
- 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).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- The solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

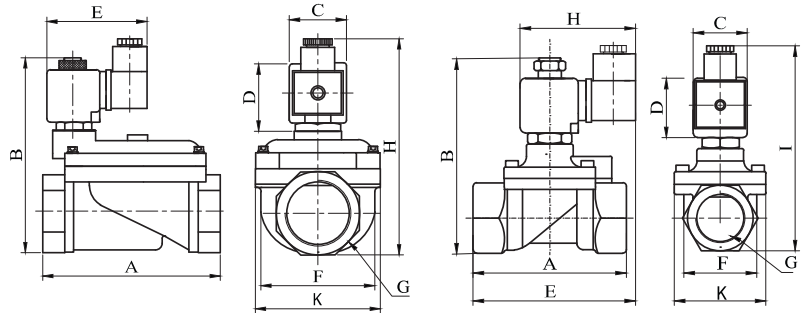
- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C ; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

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



**MATERIALS IN CONTACT WITH FLUIDS**

- 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
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	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 : 25 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		
T-Y	S4010	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-Y 402	S4010.02	3/8"	12.5	0.5	16	48	-10	160	VITON	0.68
T-Y 403	S4010.03	1/2"	14.5	0.5	16	70	-10	160	VITON	0.71
T-Y 404	S4010.04	3/4"	17	0.5	16	85	-10	160	VITON	0.8
T-Y 405	S4010.05	1"	17	0.5	16	90	-10	160	VITON	0.97
T-Y 406	S4010.06	1 1/4"	46	0.5	12	390	-10	160	VITON	2.65
T-Y 407	S4010.07	1 1/2"	46	0.5	12	460	-10	160	VITON	2.55
T-Y 408	S4010.08	2"	46	0.5	12	580	-10	160	VITON	2.98

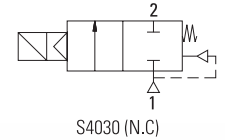
**Useful Informations**

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

**GENERAL FEATURES**

- **New design**
- **Full orifice fuel oil solenoid valves**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam**
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 0,35, 0,5**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation ; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**Normally Closed**



**ELECTRICAL CHARACTERISTICS**

Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Polyester Fiber Glass  
 Coil Encapsulation Material : Fiber Glass Reinforced  
 Ambient Temperature : from -10°C ; +60°C  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)  
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm )  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
 For DC 12V, 24V, 48V, 110 V

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

On request; connector with LED  
 Specify coil voltage with order

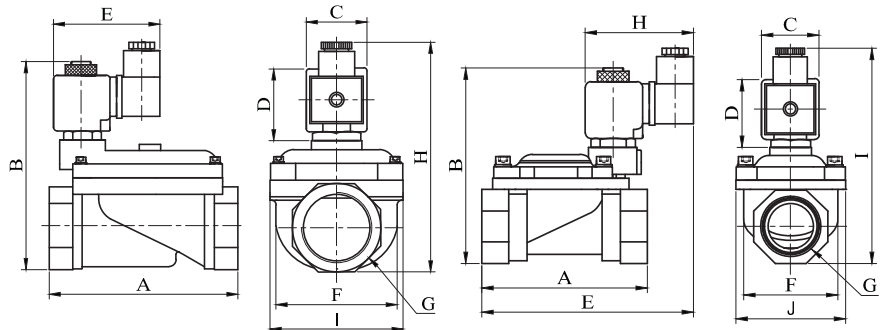


**MATERIALS IN CONTACT WITH FLUIDS**

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 mm²/s)  
 Response Time : Opening Time : 400 ms to ~ 1600 ms,  
 Closing Time : 1000 ms to ~ 2000 ms  
 Maximum Allowable Pressure : 25 bar



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	106.3	38	52	76	112
1/2"	75	100	32	45	109	40	52	76	115
3/4"	81.3	107.9	32	45	115.8	42.1	52	76	121
1"	87.9	115.3	32	45	122.4	51.5	52	76	127.5

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min / max	bar		min	max		
T-YL	S4030	G	mm	bar	bar	lt/min	min	max		(kg)
T-YL 402	S4030.02	3/8"	12.5	0.35	16	45	-10	160	VITON	0.68
T-YL 403	S4030.03	1/2"	12.5	0.35	16	65	-10	160	VITON	0.64
T-YL 404	S4030.04	3/4"	20	0.5	16	120	-10	160	VITON	0.66
T-YL 405	S4030.05	1"	25	0.5	16	170	-10	160	VITON	0.8
T-YL 406	S4030.06	1 1/4"	46	0.5	12	390	-10	160	VITON	2.65
T-YL 407	S4030.07	1 1/2"	46	0.5	12	460	-10	160	VITON	2.55
T-YL 408	S4030.08	2"	46	0.5	12	580	-10	160	VITON	2.98

**Useful Informations**

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



B

**GENERAL FEATURES**

- **High working pressure for connections 3/8", 1/2", 3/4" and 1"**
- **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).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

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

**MATERIALS IN CONTACT WITH FLUIDS**

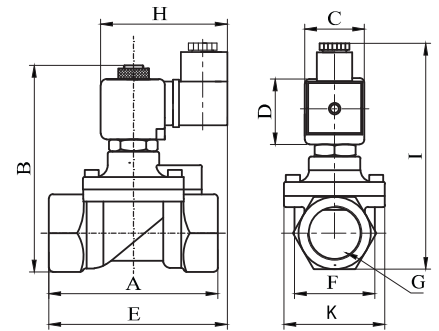
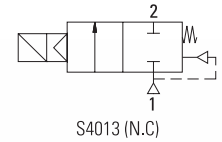
- Body : Brass
- Internal Parts : Stainless Steel and brass
- Sealing : FPM (VITON) + PTFE
- Shading Ring : Copper
- Seats : Brass
- Core Tube : Stainless Steel
- Springs : Stainless Steel
- On request; nickel plated body

**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 : 60 bar

**Normally Closed**

High Pressure



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	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
				bar	bar		min	max		
T-YH	S4013	G	mm	bar	bar	lt/min	°C			(kg)
T-YH 402	S4013.02	3/8"	12.5	0.5	40	48	-10	160	PTFE + VITON	0.69
T-YH 403	S4013.03	1/2"	14.5	0.5	40	70	-10	160	PTFE + VITON	0.73
T-YH 404	S4013.04	3/4"	17	0.5	40	85	-10	160	PTFE + VITON	0.81
T-YH 405	S4013.05	1"	17	0.5	40	90	-10	160	PTFE + VITON	0.98

**Useful Informations**

1 bar:14,5 PSI:10 mHz0:10 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**

- Dont require any differential pressure
- **TORK series S4020 diaphragm fuel oil solenoid valves are 2/2 way normally closed and pilot operated**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam**
- Working Temperature:-10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners, closed circuits
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

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

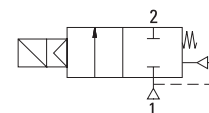
**MATERIALS IN CONTACT WITH FLUID**

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

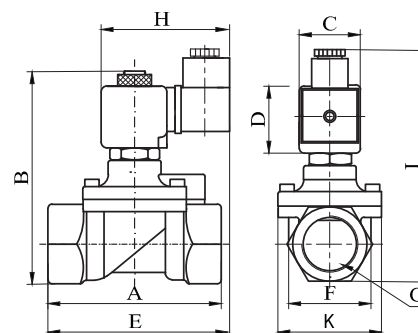
**TECHNICAL FEATURES**

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:25 bar

**Normally Closed**



S4020 (N.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	39.5	52	76	110	
3/4"	80	107.3	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	°C max		
T-YZ	S4020	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-YZ 402	S4020.02	3/8"	12,5	0	16	38	-10	160	VITON	0,69
T-YZ 403	S4020.03	1/2"	14,5	0	16	62	-10	160	VITON	0,72
T-YZ 404	S4020.04	3/4"	17	0	16	85	-10	160	VITON	0,80
T-YZ 405	S4020.05	1"	17	0	16	100	-10	160	VITON	0,98

**Useful Informations**

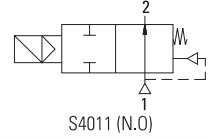
1 bar:14,5 PSI:10 mH<sub>2</sub>O:10 N/cm<sup>2</sup>:1 kg/cm<sup>2</sup>:100000 Pa, 1 PSI:69 mbar,1 m<sup>3</sup>/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m<sup>3</sup>/h, 0°C:89,6 F  
 Sealings:FPM (VITON);Fluoro-Carbon Elastomer

B

**GENERAL FEATURES**

- New design, internal exhaust system
- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam etc...)
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 0,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners
- 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 Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110V

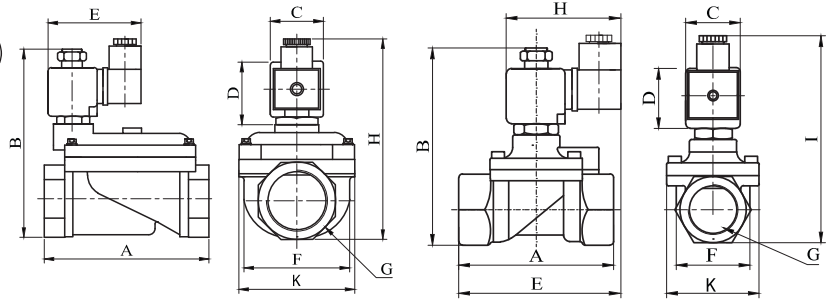
- Other voltages on request;
- Voltage Tolerances : For AC % -15 ; % +10, For DC % -5 ; % +10
- Frequency : 50 Hz, other frequencies on request; (60 Hz)
- On request; connector with LED
- Specify coil voltage with order

**MATERIALS IN CONTACT WITH FLUIDS**

- 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 : 18 bar



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

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-YNA</b>	<b>S4011</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-YNA 402	S4011.02	3/8"	12.5	0.5	12	48	-10	160	VITON	0.69
T-YNA 403	S4011.03	1/2"	14.5	0.5	12	70	-10	160	VITON	0.72
T-YNA 404	S4011.04	3/4"	17	0.5	12	85	-10	160	VITON	0.81
T-YNA 405	S4011.05	1"	17	0.5	12	90	-10	160	VITON	0.98
T-YNA 406	S4011.06	1 1/4"	46	0.5	10	390	-10	160	VITON	2.66
T-YNA 407	S4011.07	1 1/2"	46	0.5	10	460	-10	160	VITON	2.56
T-YNA 408	S4011.08	2"	46	0.5	10	580	-10	160	VITON	2.99

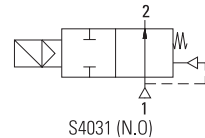
**Useful Informations**

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:FPM (VITON);Fluoro-Carbon Elastomer

**GENERAL FEATURES**

- New design, internal exhaust system
- Full orifice fuel oil solenoid valves
- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- Minimum operating differential pressure 0,35, 0,5
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners
- 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**

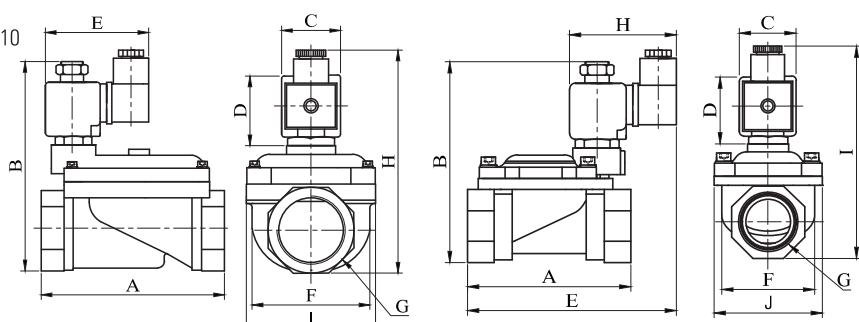


**ELECTRICAL CHARACTERISTICS**

- 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 Ø 6-8 mm)
- Electrical Safety: IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V



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



**MATERIALS IN CONTACT WITH FLUIDS**

- 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	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"	75	100	32	45	109	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

**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

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-YLN</b>	<b>S4031</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-YLN 402	S4031.02	3/8"	12.5	0.35	12	45	-10	160	VITON	0.69
T-YLN 403	S4031.03	1/2"	12.5	0.35	12	65	-10	160	VITON	0.66
T-YLN 404	S4031.04	3/4"	20	0.5	12	120	-10	160	VITON	0.67
T-YLN 405	S4031.05	1"	25	0.5	12	170	-10	160	VITON	0.81
T-YLN 406	S4031.06	1 1/4"	46	0.5	10	390	-10	160	VITON	2.66
T-YLN 407	S4031.07	1 1/2"	46	0.5	10	460	-10	160	VITON	2.56
T-YLN 408	S4031.08	2"	46	0.5	10	580	-10	160	VITON	2.99

**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:FPM (VITON);Fluoro-Carbon Elastomer,



B

**GENERAL FEATURES**

- Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E), overheated water and steam etc...)
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 0,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation ; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

Continuous Duty : ED %100  
 Coil Insulation Class : H (180°C)  
 Coil Impregnation : Polyester Fiber Glass  
 Coil Encapsulation Material : Fiber Glass Reinforced  
 Ambient Temperature : from -10°C ; +60°C  
 Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector  
 Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)  
 Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)  
 Electrical Safety : IEC 335  
 Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
 For DC 12V, 24V, 48V, 110 V

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

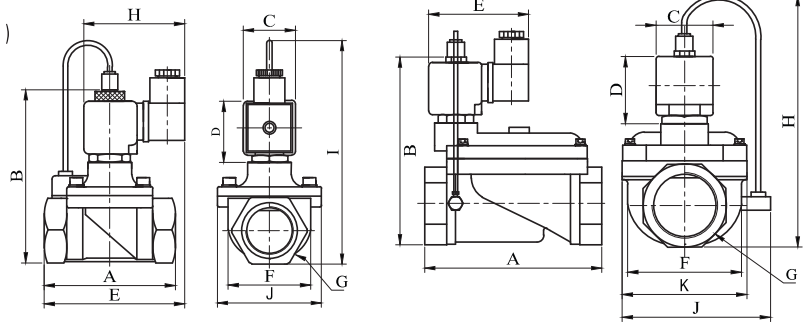
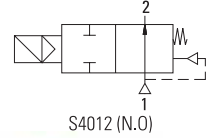
**MATERIALS IN CONTACT WITH FLUIDS**

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 : 24 bar

**Normally Open**



Dimensions (mm)

	G	A	B	C	D	E	F	J	H	I
3/8"	74	97	32	45	91.3	37.5	52	76	124	
1/2"	79	100	32	45	92	39.8	52	76	128	
3/4"	79	107.3	32	45	94	41.5	52	76	134	
1"	85	115	32	45	101	42.5	52	76	143.5	

Dimensions (mm)

	G	A	B	C	D	E	F	K	H	J
1 1/4"	141	143	32	45	76	96.8	110.7	191.6	123.8	
1 1/2"	139	143	32	45	76	96.8	110.7	191.6	123.8	
2"	145.6	153	32	45	76	96.8	110.7	191.6	123.8	

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 °C		
T-YBA	S4012	G	mm			lt/min				(kg)
T-YBA 402	S4012.02	3/8"	12.5	0.5	16	48	-10	160	VITON	0.69
T-YBA 403	S4012.03	1/2"	14.5	0.5	16	70	-10	160	VITON	0.72
T-YBA 404	S4012.04	3/4"	17	0.5	16	85	-10	160	VITON	0.81
T-YBA 405	S4012.05	1"	17	0.5	16	90	-10	160	VITON	0.98
T-YBA 406	S4012.06	1 1/4"	46	0.5	12	390	-10	160	VITON	2.66
T-YBA 407	S4012.07	1 1/2"	46	0.5	12	460	-10	160	VITON	2.56
T-YBA 408	S4012.08	2"	46	0.5	12	580	-10	160	VITON	2.99

**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:FPM (VITON);Fluoro-Carbon Elastomer

**GENERAL FEATURES**

- Dont require any differential pressure
- Internal exhaust system for normally open solenoid valves
- TORK series S4021 diaphragm fuel oil solenoid valves are 2/2 way normally open and pilot operated
- Suitable for non-aggressive liquids fuel oil, hydraulic oil, light oil (2E), overheated water and steam
- Working Temperature: -10°C / +160°C
- Not suitable for use with dangerous fluids listed in Group 1
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- Ideal for the automatic control of media in a wide range of applications.
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; burners, closed circuits
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

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

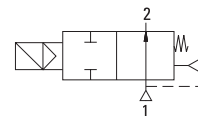
**MATERIALS IN CONTACT WITH FLUID**

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

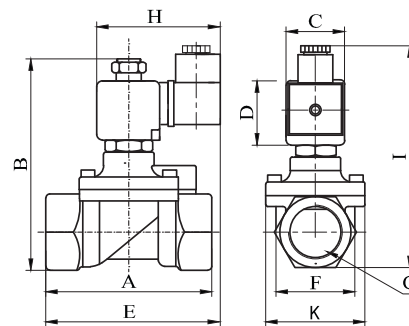
**TECHNICAL FEATURES**

- 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:20 bar

**Normally Open**



S4021 (N.O.)



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		
T-YZN	S4021	G	mm	bar	bar	lt/min	min	°C max		(kg)
T-YZN 402	S4021.02	3/8"	12,5	0	12	38	-10	160	VITON	0,70
T-YZN 403	S4021.03	1/2"	14,5	0	12	62	-10	160	VITON	0,73
T-YZN 404	S4021.04	3/4"	17	0	12	85	-10	160	VITON	0,81
T-YZN 405	S4021.05	1"	17	0	12	100	-10	160	VITON	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:FPM (VITON):Fluoro-Carbon Elastomer

B

**GENERAL FEATURES**

- **TORK series S4014 diaphragm fuel oil solenoid valves are 2/2 way normally open and pilot operated**
- **High working pressure for connections 3/8", 1/2", 3/4" and 1"**
- **Suitable for non-aggressive liquids (fuel oil, hydraulic oil, light oil (2E)), overheated water and steam**
- 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).
- Some applications; burners
- Coils interchangeable
- Flow factor Kv of each valve is indicated, so that the flow Q can be calculated as a function of pressure
- Solenoid valves must be used with filtered fluids.
- Solenoid valve can be mounted in any position without affecting operation; vertical with coil upwards preferred.
- Standard pipe connection is G (BSP) (ISO 228-1) and on request; other pipe connections are available (NPT (ANSI 1.20.3))

**ELECTRICAL CHARACTERISTICS**

- Continuous Duty : ED %100
- Coil Insulation Class : H (180°C)
- Coil Impregnation : Polyester Fiber Glass
- Coil Encapsulation Material : Fiber Glass Reinforced
- Ambient Temperature : from -10°C; +60°C
- Protection Degree : IP 65 (EN 60529) with coil duly fitted with the plug connector
- Electric Plug Connection : DIN 46340 3-poles connectors (DIN 43650)
- Connector Specification : ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø 6-8 mm)
- Electrical Safety : IEC 335
- Standard Voltages : For AC 12V, 24V, 48V, 110V, 230V  
For DC 12V, 24V, 48V, 110 V

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

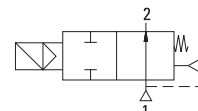
**MATERIALS IN CONTACT WITH FLUIDS**

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

**TECHNICAL FEATURES**

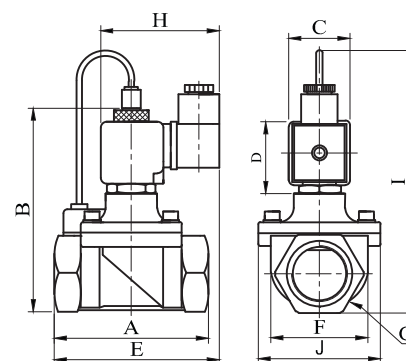
- Max Viscosity : 5°E (~37cSt or mm<sup>2</sup>/s)
- Response Time : Opening Time : 400 ms to ~ 1600 ms,  
Closing Time : 1000 ms to ~ 2000 ms
- Maximum Allowable Pressure : 60 bar

**Normally Open**



S4014 (N.O)

High Pressure



Dimensions (mm)

	G	A	B	C	D	E	F	J	H	I
3/8"	74	97	32	45	91.3	37.5	52	76	124	
1/2"	79	100	32	45	92	39.8	52	76	128	
3/4"	80	107.3	32	45	94	41.5	52	76	134	
1"	85	115	32	45	101	42.5	52	76	143.5	

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure		KV	Fluid Temperature		Seal	Weight
				min	max		min	max		
<b>T-YHA</b>	<b>S4014</b>	<b>G</b>	<b>mm</b>	<b>bar</b>	<b>bar</b>	<b>lt/min</b>	<b>°C</b>			<b>(kg)</b>
T-YHA 402	S4014.02	3/8"	12.5	0.5	40	48	-10	160	PTFE + VITON	0.71
T-YHA 403	S4014.03	1/2"	14.5	0.5	40	70	-10	160	PTFE + VITON	0.74
T-YHA 404	S4014.04	3/4"	17	0.5	40	85	-10	160	PTFE + VITON	0.82
T-YHA 405	S4014.05	1"	17	0.5	40	90	-10	160	PTFE + VITON	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:FPM (VITON):Fluoro-Carbon Elastomer, PTFE:Polytetrafluorethylene