TORK valve & automation high quality

VACUUM SOLENOID VALVES

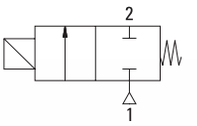
2/2 Way
Direct Operated
G1/8", G1/4"

S3010 SERIES

B

GENERAL FEATURES

Normally Closed



S3010 (N.C)

- **TORK series S3010 direct acting vacuum solenoid valves are 2/2 way normally closed and have small body size.**
- **Suitable for vacuum applications**
- Working Temperature:-10˚C / +80˚C
- 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.**
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- Some applications; vacuum packing, vacuum pumps
- 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	

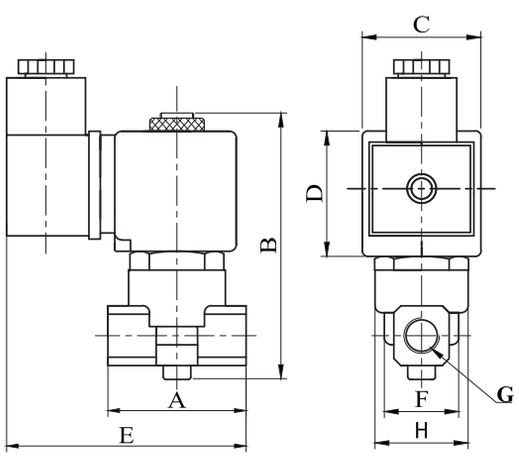
TSEK TSE-HYB CE ROHS GOST

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)	

TECHNICAL FEATURES

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



Dimensions (mm)

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

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature		Seal	Weight
T-V	S3010	G	mm	bar	bar	lt/min	˚C min	˚C max		(kg)
T-V 300	S3010.00.040	1/8"	4	-1	4	6.4	-10	80	NBR	0.37
T-V 301	S3010.01.040	1/4"	4	-1	4	6.4	-10	80	NBR	0.36

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

TORK valve & automation high quality

VACUUM SOLENOID VALVES

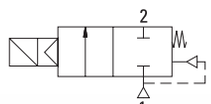
2/2 Way
Pilot Operated
G3/8", G1/2", G3/4", G1"

S3010 SERIES

B

GENERAL FEATURES

Normally Closed



S3010 (N.C)

- **TORK series S3010 diaphragm vacuum solenoid valves are 2/2 way normally closed and pilot operated**
- **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
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/EEC Low Voltage Directive (LVD).
- **Some applications; vacuum packing, vacuum pumps**
- 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))

TSEK TSE-HYB CERT CE ROHS GOST

ELECTRICAL CHARACTERISTICS

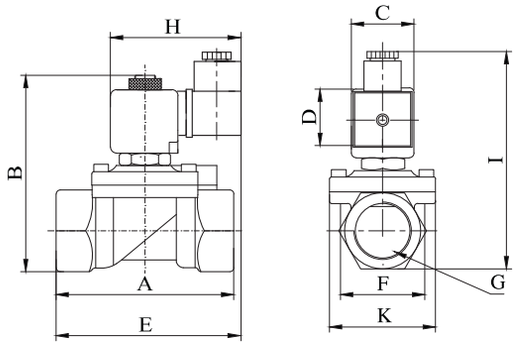
Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection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

TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm^2/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 FPM (VITON) from -10°C; +160°C,



Dimensions (mm)

G	A	B	C	D	E	F	K	H	I
3/8"	75	89.5	32	45	91.3	37.5	52	76	100
1/2"	79	92	32	45	92	39.5	52	76	102
3/4"	79	100	32	45	94	41.5	52	76	110
1"	85	108	32	45	101	42.5	52	76	107

Valve Type / Order no	New Valve Type / Order no	Connection Size	Orifice size	Pressure min / max		KV	Fluid Temperature °C		Seal	Weight
T-V	S3010	G	mm	bar	bar	lt/min	min	max		(kg)
T-V 302	S3010.02	3/8"	12.5	-1	3	38	-10	80	NBR	0.63
T-V 303	S3010.03	1/2"	14.5	-1	3	62	-10	80	NBR	0.66
T-V 304	S3010.04	3/4"	17	-1	3	85	-10	80	NBR	0.74
T-V 305	S3010.05	1"	17	-1	3	100	-10	80	NBR	0.91

Useful Informations
1 bar:14,5 PSI:10 mH_2O :10 N/cm^2 : 1 kg/cm^2 : 100000 Pa, 1 PSI:69 mbar, 1 m^3/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m^3/h, 0°C:89,6 F
Sealings:NBR:Nitrile-Butylene Elastomer, FPM (VITON) : Fluoro-Carbon Elastomer

VACUUM SOLENOID VALVES

2/2 Way
Pilot Operated
G3/4", G1"

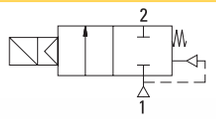
S3030
SERIES

B

GENERAL FEATURES

Normally Closed

- **New design**
- **Full orifice vacuum solenoid valves**
- **TORK series S3030(N.C) diaphragm vacuum solenoid valves are 2/2 way normally closed and pilot operated**
- **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; flanged types**
- 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))



S3030 (N.C)

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Coil Encapsulation Material	: Fiber Glass Reinforced
Ambient Temperature	: from -10°C; +60°C
Protection Degree	: IP 65 (EN 60529) with coil duly fitted with the plug connector
Electric Plug Connection	: DIN 46340 3-poles connectors (DIN 43650)
Connector Specification	: ISO 4400 / EN 175301-803, Form A, Spade plug (Cable Ø6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: For AC 12V, 24V, 48V, 110V, 230V For DC 12V, 24V, 48V, 110 V
Other voltages on request;	
Voltage Tolerances	: For AC -15%; +10%, For DC -5%; +10%
Frequency	: 50 Hz, other frequencies on request; (60 Hz ....)

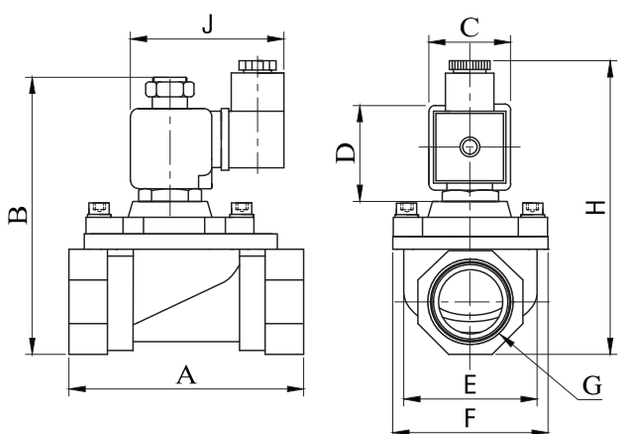
On request; connector with LED
Specify coil voltage with order

TSE-HYB CE ROHS GOST

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)



TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm^2/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,

Dimensions (mm)

G	A	B	C	D	E	F	J	H
3/8"	69	101	32	45	38	52	76	112
1/2"	75	104	32	45	40	52	76	115
3/4"	81.3	112	32	45	42.1	51.9	76	121
1"	87.9	119	32	45	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 °C		Seal	Weight
T-VL	S3030	G	mm	bar	bar	lt/min	min	max		(kg)
T-VL 302	S3030.02	3/8"	12.5	-1	3	55	-10	80	NBR	0.5
T-VL 303	S3030.02	1/2"	12.5	-1	3	75	-10	80	NBR	0.52
T-VL 304	S3030.04	3/4"	20	-1	3	130	-10	80	NBR	0.61
T-VL 305	S3030.05	1"	25	-1	3	190	-10	80	NBR	0.75

Useful Informations
1 bar:14,5 PSI:10 mH_2O:10 N/cm^2:1 kg/cm^2:100000 Pa , 1 PSI:69 mbar,1 m^3/h:4,405 GPM:16,7 L/d 1 Gallon / minute:0,227 m^3/h, 0°C:89,6 F
Sealings:NBR:Nitrile-Butylene Elastomer , FPM (VITON):Fluoro-Carbon Elastomer