TORK valve & automation high quality

DRAIN SOLENOID VALVES

2/2 Way
Pilot Operated
G 3/8", G1/2", G3/4", G1"

S8180 SERIES

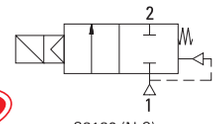
GENERAL FEATURES

Normally Closed

- **TORK series S8180 (N.C) diaphragm drain solenoid valves are 2/2 way normally closed pilot operated**
- **The standby and drainage periods can be regulated by the timer on itself. It is attached to the part of the valve which it is drained. The valve is opened to drain on time which the timer is programmed.**
- **On request; normally open types**
- **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).
- Some applications; separator main drainage
- 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))

With Timer

DON'T REQUIRE ANY DIFFERENTIAL PRESSURE



S8180 (N.C)

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

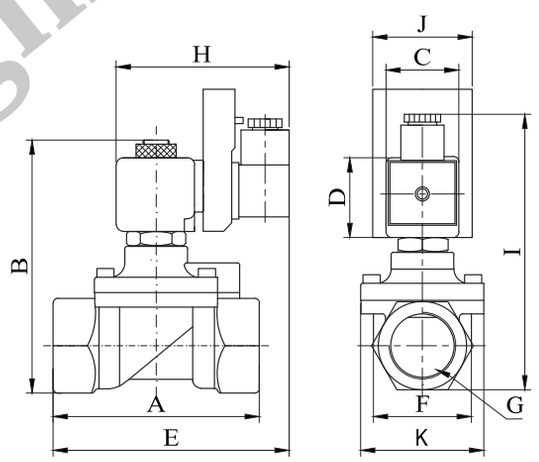
MATERIALS IN CONTACT WITH FLUID

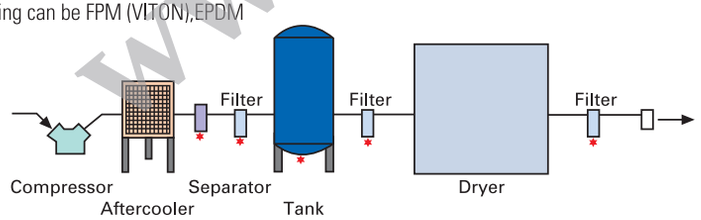
Body	: Brass
Internal Parts	: Stainless Steel
Sealing	: NBR
Shading Ring	: Copper
Seats	: Brass
Core Tube	: Stainless Steel
Springs	: Stainless Steel

On request; sealing can be FPM (VITON),EPDM

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, for EPDM
from -10°C; +140°C





✱ Application areas for drain valves

Dimensions (mm)

G	A	B	C	D	E	F	K	H	I	J
3/8"	74	97	32	45	109.3	37.5	52	76	108	42.3
1/2"	79	100	32	45	110	39.8	52	76	110	42.3
3/4"	79	107.3	32	45	112	41.5	52	76	118	42.3
1"	85	115	32	45	115	42.5	52	76	124	42.3

Valve Type / Order no	Connection Size	Orifice size	Pressure min	Pressure max	KV	Fluid Temperature °C min	Fluid Temperature °C max	Seal	Weight
S8180	G	mm	bar	bar	lt/min				(kg)
S8180.02	3/8"	12.5	0	16	48	-10	80	NBR	0.69
S8180.03	1/2"	14.5	0	16	70	-10	80	NBR	0.72
S8180.04	3/4"	17	0	16	85	-10	80	NBR	0.8
S8180.05	1"	17	0	16	90	-10	80	NBR	0.98

Useful Informations

1 bar:14,5 PSI:10 mH_2O:10 N/cm2:1 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, EPDM:Ethylene-Propylene Elastomer

SMS INDUSTRIAL CONTROL VALVES & AUTOMATION SYSTEMS CO.
Head Office: Bostancı Yolu Cad. Kuru Sok. No:16 Y. Dudullu, 34776 Ümraniye - Istanbul / Turkey
Tel: +90 (216) 364 34 05 (pbx) Fax: +90 (216) 364 37 57 export@sms-tork.com www.sms-tork.com
Factory: Çerkeşli OSB Mah. İmes 5.Cad. No:6 Dilovası İMES OSB - Kocaeli / Turkey
Tel: +90 (262) 290 20 20 Fax: +90 (262) 290 20 21