

GENERAL FEATURES

- **Small body size.**
- **Inlet on the top (for de-energized)**
- **Valves used on especially exhaust systems and pneumatic control systems**
- **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
- **Don't require any differential pressure**
- Compact and low weight valve enabling 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 : 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

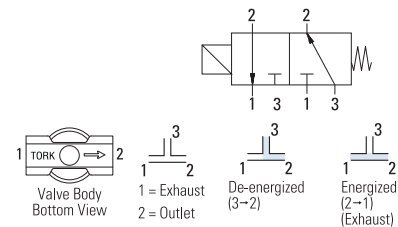
MATERIALS IN CONTACT WITH FLUID

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

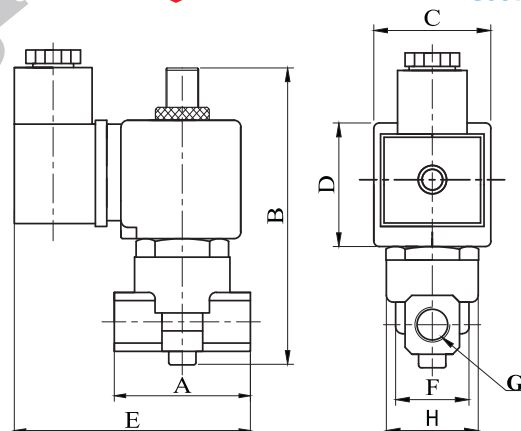
TECHNICAL FEATURES

Max Viscosity : 5°E (~37cSt or mm²/s)
 Response Time : Opening Time: 30 ms, Closing Time : 30 ms
 Maximum Allowable Pressure: 15 bar
 Fluid Temperature for NBR from -10°C; +80°C,
 for EPDM from -10°C; +140°C

Normally Open



S1017 (N.O)



Dimensions (mm)

| | G | A | B | C | D | E | F | H |
|------|----|-----|----|----|----|------|------|---|
| 1/4" | 40 | 102 | 32 | 39 | 78 | 22.3 | 25.6 | |
| 1/8" | 40 | 102 | 32 | 39 | 78 | 22.3 | 25.6 | |

| Valve Type / Order no | Connection Size | Orifice size | Pressure | | KV | Fluid Temperature | | Seal | Weight |
|-----------------------|-----------------|--------------|------------|------------|-------------------|-------------------|-----|-------|-------------|
| | | | min | max | | min | max | | |
| S1015 | G | mm | bar | bar | lt/min | °C | | | (kg) |
| S 10 17 . 00 . 010 | 1/8" | 1 | 0 | 10 | 3-2=0,5, 1-2=1,35 | -10 | 160 | VITON | 0.36 |
| S 10 17 . 00 . 018 | 1/8" | 1.8 | 0 | 4 | 1-2=2,7, 2-3=1,35 | -10 | 160 | VITON | 0.36 |
| S 10 17 . 00 . 025 | 1/8" | 2.5 | 0 | 2 | 1-2=2,7, 2-3=1,35 | -10 | 160 | VITON | 0.36 |
| S 10 17 . 01 . 010 | 1/4" | 1 | 0 | 10 | 3-2=0,5, 1-2=1,35 | -10 | 160 | VITON | 0.36 |
| S 10 17 . 01 . 018 | 1/4" | 1.8 | 0 | 4 | 1-2=2,7, 2-3=1,35 | -10 | 160 | VITON | 0.36 |
| S 10 17 . 01 . 025 | 1/4" | 2.5 | 0 | 2 | 1-2=2,7, 2-3=1,35 | -10 | 160 | VITON | 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, EPDM : Ethylene-Propylene Elastomer