TORK valve & automation high quality

# GENERAL PURPOSE SOLENOID VALVES

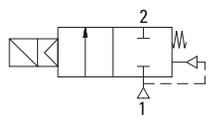
**2/2 Way**
**Pilot Operated**
**G21/2", G3"**

**S1030 / S1033 SERIES**

## GENERAL FEATURES

- **New design**
- **Full orifice solenoid valves**
- **21/2" and 3" connection**
- TORK series S1030 (N.C) and S1033 (N.C) diaphragm solenoid valves are 2/2 way normally closed and pilot operated
- **Suitable for water and air.**
- Working Temperature:-10°C / +80°C
- Not suitable for use with dangerous fluids listed in Group 1
- **Minimum operating differential pressure 1 and 1,5 bar**
- High reliability, quality and performance; long life, corrosion resistance
- Wide pressure ratings, range of flow rate and orifice options
- 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**




S1030 and S1033 (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<br>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

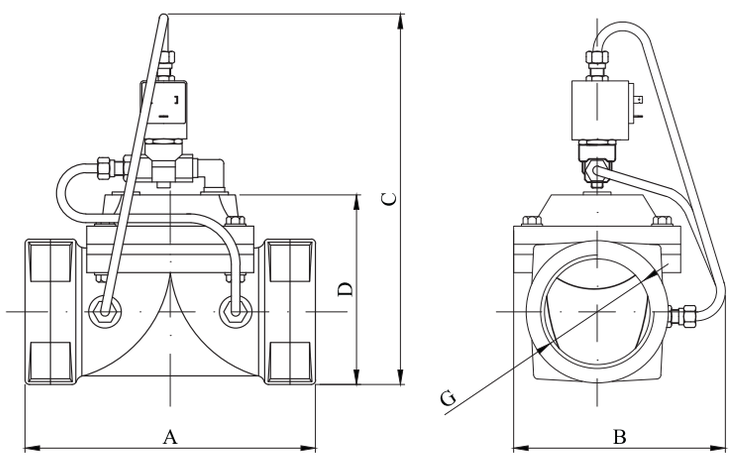
TSE-HYB CERT ROHS GOST

## MATERIALS IN CONTACT WITH FLUID

| | |
|---|---|
| Body | : Cast Iron |
| Internal Parts | : Stainless Steel and brass |
| Sealing | : NBR |
| Shading Ring | : Copper |
| Seats | : Brass |
| Core Tube | : Stainless Steel |
| Springs | : Stainless Steel |

## 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 (for T-GLH)
10 bar (for T-GL)




| G | A | D | B | C |
|---|---|---|---|---|
| 21/2" | 200 | 125 | 155 | 260 |
| 3" | 210 | 150 | 155 | 285 |

| Valve Type / Order no | Connection Size | Orifice size | Pressure min | Pressure max | KV | Fluid Temperature °C min | Fluid Temperature °C max | Seal | Weight |
|---|---|---|---|---|---|---|---|---|---|
| S1030 / S1033 | G | mm | bar | bar | lt/min | min | max | | (kg) |
| S1030.09 | 21/2" | 72,8 | 1 | 6 | 1266 | -10 | 80 | NBR | 6 |
| S1030.10 | 3" | 85,4 | 1 | 6 | 2333 | -10 | 80 | NBR | 10.3 |
| S1033.09 | 21/2" | 72,8 | 1,5 | 16 | 1266 | -10 | 80 | NBR | 6 |
| S1033.10 | 3" | 85,4 | 1,5 | 16 | 2333 | -10 | 80 | NBR | 10.3 |

**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 $m^3/h$, Cv:1,16 Kv, 0°C:89,6 F
Sealings:NBR:Nitrile-Butylene Elastomer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