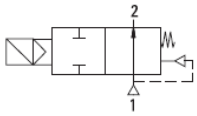
# OXYGEN AND HYDROGEN GAS SOLENOID VALVES
## 2/2 WAY, PILOT OPERATED
### G 3/8''...G2"

**S8811 SERIES**

**Normally Open**




## GENERAL FEATURES

- TORK series S8811 (N.A) diaphragm solenoid valves are 2/2 way and pilot operated
- Suitable for non-aggressive liquids (water, light oil etc...)
  gaseous fluids (air, oxygen gas and hydrogen gas etc...)
- Minimum operating pressure differential 0,5 bar
- Wide pressure ratings, range of flow rate and orifice options
- TORK solenoid valves satisfy relevant 97/23/EC, Pressure Equipment Directive (PED) and 2006/95/ECC Low Voltage Directive (LVD)Coils interchangeable
- Solenoid valves must be used with filtered fluids.
- Solenoids 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

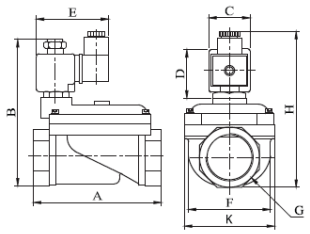
- **Continuous Duty:** ED %100
- **Coil Insulation Class:** H (180°C)
- **Coil Impregnation:** Polyester Fiber Class
- **Coil Encapsulation Material:** Fiber Glass Reinforced
- **Ambient Temperature:** from -10°C, +60°C
- **Protection Degree:** IP65 (ISO 60529) on request; IP68
- **Electric Plug Connection:** DIN 46340 3-poles connector (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
  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...)
  Other request; connector with LED
  Specify coil voltage with order

## MATERIALS ON CONTACT WITH FLUID

- **Body:** Brass
- **Internal Parts:** Stainless Steel and Brass
- **Sealing:** EPDM
- **Shading Ring:** Copper
- **Core, Tube, Spring:** Stainless Steel

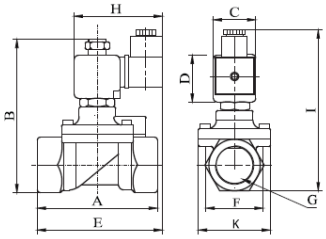
## TECHNICAL FEATURES

- **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




Dimensions (mm)

| G | A | B | C | D | E | F | K | H |
|---|---|---|---|---|---|---|---|---|
| 11/4" | 141 | 143 | 32 | 45 | 73.4 | 96.5 | 110.7 | 156 |
| 11/2" | 139 | 143 | 32 | 45 | 73.4 | 96.5 | 110.7 | 156 |
| 2" | 145.6 | 153 | 32 | 45 | 73.4 | 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" | 87 | 115 | 32 | 45 | 102 | 42.5 | 52 | 76 | 124 |

| Valve Type /Order no | Connection Size | Orifice Size | Pressure min/max | | Kv | Fluid Temperature min/max | | Seal | Weight |
|---|---|---|---|---|---|---|---|---|---|
| S8811 | G | mm | bar | bar | lt/min | °C | | | kg |
| S8811.02 | 3/8'' | 12,5 | 0,5 | 12 | 48 | -10 | +140 | EPDM | 0,68 |
| S8811.03 | 1/2'' | 14,5 | 0,5 | 12 | 70 | -10 | +140 | EPDM | 0,71 |
| S8811.04 | 3/4'' | 17 | 0,5 | 12 | 85 | -10 | +140 | EPDM | 0,8 |
| S8811.05 | 1" | 17 | 0,5 | 12 | 90 | -10 | +140 | EPDM | 0,97 |
| S8811.06 | 11/4'' | 46 | 0,5 | 10 | 390 | -10 | +140 | EPDM | 2,65 |
| S8811.07 | 11/2'' | 46 | 0,5 | 10 | 460 | -10 | +140 | EPDM | 2,55 |
| S8811.08 | 2'' | 46 | 0,5 | 10 | 580 | -10 | +140 | EPDM | 2,98 |

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