

## Pinch Solenoid Valve S8510 - S8511 Series

### GENERAL FEATURES

- There are different models for different tube diameter and stiffness.
- Solenoid valves are used with the filter.
- Bobbin up in a vertical position should be preferred.
- This product in the differential pressure is 0 bar.
- The metal is used in particular to fluid communication undesirable.
- Usage Areas : Dialysis Machines, Pharmaceutical Industry, Medical Laboratories, Food Industry, Bioreactors, Blood Transf Unit, Tissue Transplantation Units,

### ELECTRICAL CHARACTERISTICS

|                          |  |
|--------------------------|--|
| Continuous Duty          | : ED %100  |
| Coil Insulation Class    | : H (180°C)(IEC 85)  |
| Coil Impregnation        | : Polyester Fiber Glass  |
| Ambient Temperature      | : -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,<br>Spade Plug (Cable Ø6-8 mm)   |
| Electrical Safety        | : IEC 335  |
| Standard Voltages        | : AC 12V 15VA, 24V 15VA, 48V 15VA,<br>110V 15VA, 230V 15VA, 230V 24VA,<br>DC 12V 18W, 24V 18W, 48V 18W, 110V 18W |

On request other voltages

|  |                              |
|--|------------------------------|
| Voltages Tolerance   | : AC -15%, +10% DC -5%, +10% |
| Frequency  | : 50 Hz (60 Hz...)           |
| On request; Connector with LED, PWM Socket Specify coil voltage with order |                              |

### MATERIALS IN CONTACT WITH FLUID

|                           |                   |
|---------------------------|-------------------|
| Body                      | : Aluminum        |
| Internal Parts            | : Stainless Steel |
| Sealing                   | : POM             |
| Seats, Core Tube, Springs | : Stainless Steel |

### PINCH VALVES ADVANTAGES:

**Low Pressure Loss:** Pinch valves are very few pressure loss. This low pressure system reason it is preferred to perform the flow without causing further loss pressure.

**Use Amenities Containing Particulate in Fluids:** Pinch valves use in streams containing small particles is an advantage, small parts such as sand can lead to clogging or orifice solenoid coil blubbering normal valves. The use of pinch valves is an advantage in such cases.

**Ease of change:** In case of any malfunction in a very easy way pinch valves even the is possible to provide changes without the need stopping the flow.

**Being the Just Fow in Contact With Hosepipe:** Is no material or seal outside Hose in pinch valves to be in contact with the fluid. This feature is of great importance for chemicals that are react with a hygienic risks flow or valve materials.



### S8510

NORMALLY CLOSED

2/2 OPERATED

DIRECT ACTING

ΔP=0

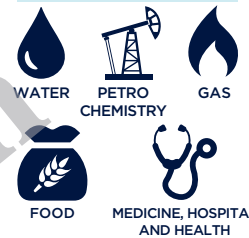
### S8511

NORMALLY OPEN

2/2 OPERATED

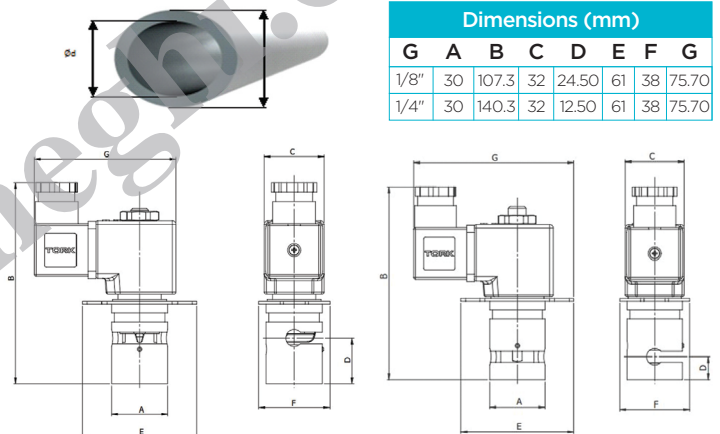
DIRECT ACTING

ΔP=0

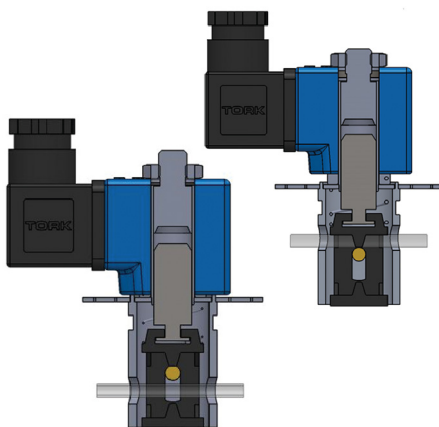


### Dimensions (mm)

|      | G  | A     | B  | C     | D  | E  | F     | G |
|------|----|-------|----|-------|----|----|-------|---|
| 1/8" | 30 | 107,3 | 32 | 24,50 | 61 | 38 | 75,70 |   |
| 1/4" | 30 | 140,3 | 32 | 12,50 | 61 | 38 | 75,70 |   |



| Coils        | Nominal Values | Cold /Hot | Inrush | Holding | Current (A) | Temperature (°c) |
|--------------|----------------|-----------|--------|---------|-------------|------------------|
| C40012VDC18W | 12VDC 18W      | SOĞUK     | 19,56  | 19,56   | 1,63        | 20               |
|              |                | SICAK     | 14,52  | 14,52   | 1,21        | 106              |
| C40024VDC18W | 24VDC 18W      | SOĞUK     | 20,88  | 20,88   | 0,87        | 25               |
|              |                | SICAK     | 14,64  | 14,64   | 0,61        | 116              |
| C40110VDC18W | 110VDC 18W     | SOĞUK     | 19,96  | 19,96   | 0,18        | 23               |
|              |                | SICAK     | 13,56  | 13,56   | 0,123       | 115              |



| Solenoid Valve Symbol | Valve Type/ Order No | Tubings             |                      | Tubings Max. Wall Thickness | Pinch Strength | Coil Power(DC) | Weight |
|-----------------------|----------------------|---------------------|----------------------|-----------------------------|----------------|----------------|--------|
|                       |                      | Inside Diameter (d) | Outside Diameter (D) |                             |                |                |        |
|                       | S8510 - S8511        | mm                  | mm                   | mm                          | Newton         | W              | kg     |
|                       | S8510.090            | 6                   | 9                    | 1,5                         | 13             | 18             | 0,31   |
|                       | S8511.090            | 6                   | 9                    | 1,5                         | 13             | 18             | 0,31   |
|                       | S8510.080            | 5                   | 8                    | 1,5                         | 11,5           | 18             | 0,31   |
|                       | S8511.080            | 5                   | 8                    | 1,5                         | 11,5           | 18             | 0,31   |
|                       | S8510.070            | 4                   | 7                    | 1,5                         | 10             | 18             | 0,31   |
|                       | S8511.070            | 4                   | 7                    | 1,5                         | 10             | 18             | 0,31   |
|                       | S8510.060            | 3                   | 6                    | 1,5                         | 8,4            | 18             | 0,31   |
|                       | S8511.060            | 3                   | 6                    | 1,5                         | 8,4            | 18             | 0,31   |

### STANDARDS

- Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 1.20.3)) are available on request.
- TORK solenoid valves 97/23/EC, are available for pressure equipment directive (PED) and 2006/95/ECC low voltage directive (LVD).

**Not:** Please look catalogues for more details