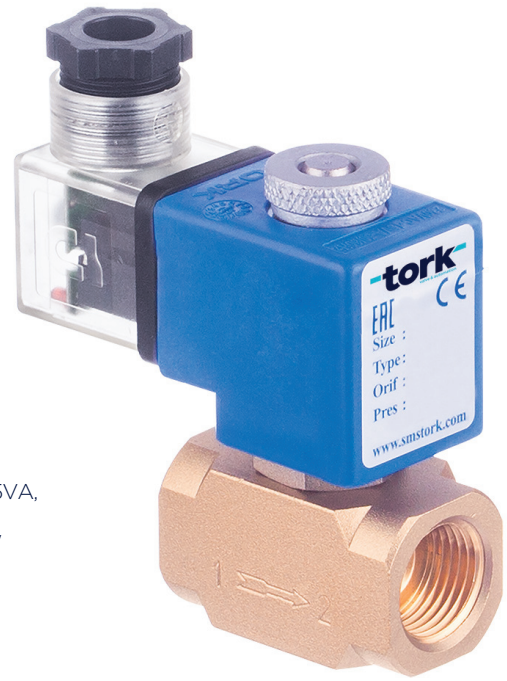
# Cyrogenic Solenoid Valve
# S9610 - S9710 Series (G1/8", G1/4", G1/2")




**NORMALLY CLOSED**
**2/2 WAY**
**DIRECT ACTING**
**ΔP=0**

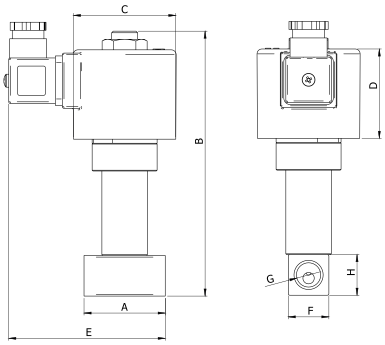
## GENERAL FEATURES
- Liquid nitrogen (-320 ° F / -194 ° C), liquid argon (-303 ° F / -184 ° C), and liquid oxygen (-297 °/ -181 ° C)
- İnternal Parts : Stainless Steel
- Seals : PTFE
- Fluid Temperature : -196°C to +90°C
- Ambient Temperature : max +50°C

## ELECTRICAL CHARACTERISTICS
Continuous Duty : ED %100
Coil Insulation Class : H (180°C)(IEC 85)
Coil Impregnation : Polyester Fiber Glass
Protection Degree : IP68
Electrical Safety : IEC 335
Standard Voltages : AC 12V 15VA, 24V 15VA, 48V 15VA, 110V 15VA, 230V 15VA, 230V 24VA
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...)
In order, please specify coil voltage. For details, please look at coil section.

## MATERIALS IN CONTACT WITH FLUID
Body : Brass
Internal Parts : Stainless Steel
Sealing : Graphite Teflon
Shading Ring : Copper (EN 12735-1)
Seats, Core Tube, Springs : Stainless Steel

## OPTIONS
Female connection: BSP; (On request NPT)
- On request Atex (exproof) coil.

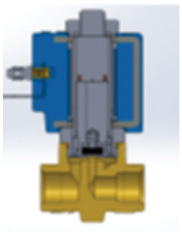
## TECHNICAL FEATURES
Max. Viscosity : Max. 21 mm2/s
Response Time : Opening time : 30 - 40 ms
Closing Time : 30 - 40 ms




**Dimensions (mm)**

| | G | A | B | C | D | E | F | H |
|---|---|---|---|---|---|---|---|---|
| Short Tube | 1/8" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| | 1/4" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| | 3/8" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| | 1/2" | 50 | 80.5 | 32 | 38.9 | 79.5 | 25 | 25 |
| Long Tube | 1/8" | 50 | 163 | 63 | 55 | 97 | 25 | 25 |
| | 1/4" | 50 | 163 | 63 | 55 | 97 | 25 | 25 |

(S9610)

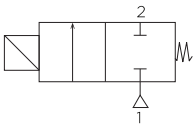


Short Tube
Flat Sealing

(S9710)



Long Tube
Flat Sealing

| Solenoid Vave Symbol | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max | | Kv | Seal | Weight | Tube, Sealing Features |
|---|---|---|---|---|---|---|---|---|---|
| | S9610 - S9710 | G | mm | Bar | Bar | l/min | PTFE | kg | |
|  | S9610.00.010T | 1/8" | 1 | 0 | 100 | 0.6 | ✓ | 0,68 | Short Tube, Flat Sealing |
| | S9610.00.018T | 1/8" | 1.8 | 0 | 50 | 1.6 | ✓ | 0,68 | Short Tube, Flat Sealing |
| | S9610.00.030T | 1/8" | 3 | 0 | 16 | 4.6 | ✓ | 0,68 | Short Tube, Flat Sealing |
| | S9610.00.045T | 1/8" | 4.5 | 0 | 8 | 7.5 | ✓ | 0,68 | Short Tube, Flat Sealing |
| | S9610.01.010T | 1/4" | 1 | 0 | 100 | 0.6 | ✓ | 0,67 | Short Tube, Flat Sealing |
| | S9610.01.018T | 1/4" | 1.8 | 0 | 50 | 1.6 | ✓ | 0,67 | Short Tube, Flat Sealing |
| | S9610.01.030T | 1/4" | 3 | 0 | 16 | 4.6 | ✓ | 0,67 | Short Tube, Flat Sealing |
| | S9610.01.045T | 1/4" | 4.5 | 0 | 8 | 7.5 | ✓ | 0,67 | Short Tube, Flat Sealing |
| | S9610.02.070T | 1/2" | 7 | 0 | 5 | 12.4 | ✓ | 0,63 | Short Tube, Flat Sealing |
| | S9710.00.030T | 1/8" | 3 | 0 | 16 | 4.6 | ✓ | 0,95 | Long Tube, Flat Sealing |
| | S9710.01.030T | 1/4" | 3 | 0 | 16 | 4.6 | ✓ | 0,95 | Long Tube, Flat Sealing |

TS9610-97EN260811