

Cyrogenic Solenoid Valve S9610 - S9710 Series (G3/8", G1/2", G3/4", G1")

GENERAL FEATURES

- Liquid nitrogen (-320 ° F / -194 ° C), liquid argon (-303 ° F / -184 ° C), and liquid oxygen (-297 ° / -181 ° C)
- Internal 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

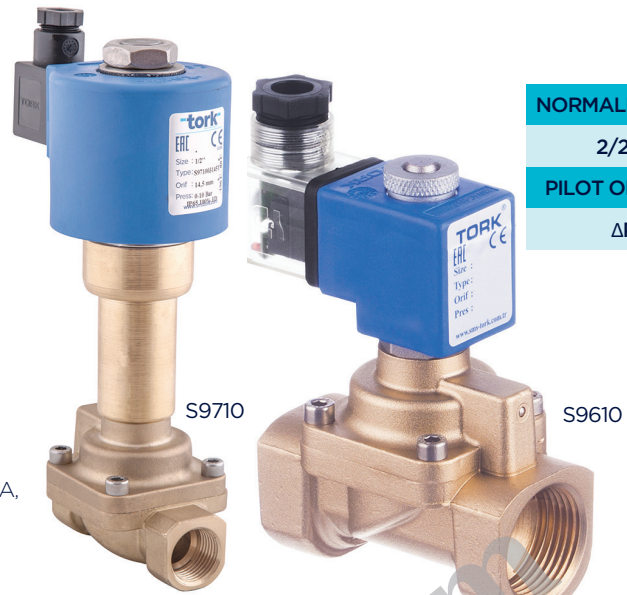
- Body : Brass
- Internal Parts : Stainless Steel
- Sealing : Graphite Teflon
- Shading Ring : Copper (EN 12735-1)
- Seats, Core Tube, Springs: Stainless Steel

OPTIONS

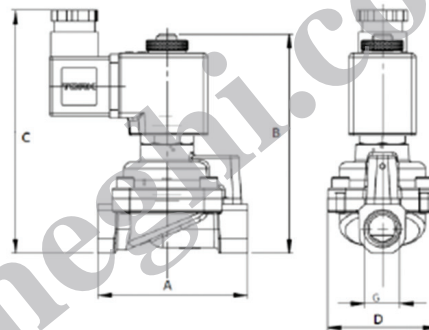
- Female connection: BSP; (On request NPT)
- On request Atex (exproof) coil.

TECHNICAL FEATURES

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

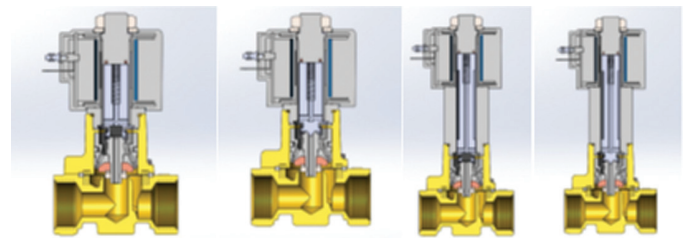


NORMALLY CLOSED
2/2 WAY
PILOT OPERATING
ΔP=0



| Dimensions (mm) | | | | |
|-----------------|----|-------|-------|------|
| G | A | B | C | D |
| 3/8" | 72 | 104.4 | 115.7 | 52.5 |
| 1/2" | 80 | 105.9 | 117.2 | 45 |
| 3/4" | 78 | 112.7 | 124 | 45 |
| 1" | 85 | 119.2 | 130.5 | 45 |

S9610



Short Tube Long Sealing Short Tube Conic Sealing Long Tube Flat Sealing Long Tube Conic Sealing

| Solenoid Valve Symbol | Valve Type/ Order No | Connection Size | Orifice Size | Pressure | | Kv | Seal | Weight | Tube, Sealing Features |
|-----------------------|----------------------|-----------------|--------------|----------|-----|-------|------|--------------------------|---------------------------|
| | | | | min | max | | | | |
| | S9610 - S9710 | G | mm | Bar | Bar | Lt/dk | PTFE | kg | |
| | S9610.02.0125T | 3/8" | 12,5 | 0 | 10 | 0.6 | ✓ | 0,69 | Short Tube, Flat Sealing |
| | S9610.03.0145T | 1/2" | 14,5 | 0 | 10 | 1.6 | ✓ | 0,73 | Short Tube, Flat Sealing |
| | S9610.04.0170T | 3/4" | 17 | 0 | 10 | 4.6 | ✓ | 0,81 | Short Tube, Flat Sealing |
| | S9610.05.0170T | 1" | 17 | 0 | 10 | 7.5 | ✓ | 0,97 | Short Tube, Flat Sealing |
| | S9610.02.0125T - BK | 3/8" | 12,5 | 0 | 10 | 4.6 | ✓ | 0,69 | Short Tube, Conic Sealing |
| | S9610.03.0145T - BK | 1/2" | 14,5 | 0 | 10 | 7.5 | ✓ | 0,73 | Short Tube, Conic Sealing |
| | S9610.04.0170T - BK | 3/4" | 17 | 0 | 10 | 0.6 | ✓ | 0,81 | Short Tube, Flat Sealing |
| | S9610.05.0170T - BK | 1" | 17 | 0 | 10 | 1.6 | ✓ | 0,97 | Short Tube, Flat Sealing |
| | S9710.02.0125T | 3/8" | 12,5 | 0 | 10 | 4.6 | ✓ | 0,95 | Short Tube, Flat Sealing |
| | S9710.03.0145T | 1/2" | 14,5 | 0 | 10 | 7.5 | ✓ | 1,13 | Short Tube, Flat Sealing |
| | S9710.04.0170T | 3/4" | 17 | 0 | 10 | 4.6 | ✓ | 1.19 | Short Tube, Flat Sealing |
| | S9710.05.0170T | 1" | 17 | 0 | 10 | 7.5 | ✓ | 1,23 | Short Tube, Flat Sealing |
| | S9710.02.125T - BK | 3/8" | 12,5 | 0 | 10 | 12.4 | ✓ | 0,95 | Long Tube, Conic Sealing |
| | S9710.03.0145T - BK | 1/2" | 14,5 | 0 | 10 | 12.4 | ✓ | 1,13 | Long Tube, Conic Sealing |
| | S9710.04.0170T - BK | 3/4" | 17 | 0 | 10 | 4.6 | ✓ | 1.19 | Long Tube, Conic Sealing |
| S9710.05.0170T - BK | 1" | 17 | 0 | 10 | 4.6 | ✓ | 1,23 | Long Tube, Conic Sealing | |