

## Fuel Oil Solenoid Valve S4014 Series (G3/8", G1/2", G3/4", G1")

### GENERAL FEATURES

- Wide pressure range, flow rate and orifis options.
- Solenoid valves are used with filters.
- Solenoid valves can be mounted in any position without affecting its operation; Coil to be used in a vertical position.

### ELECTRICAL CHARACTERISTICS

|                          |                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Continuous Duty          | : ED %100                                                                                         |
| Coil Insulation Class    | : H (180°C)(IEC 85)                                                                               |
| Coil Impregnation        | : Polyester Fiber Glass                                                                           |
| Ambient Temperature      | : -20°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        | : AC 12V 15VA, 24V 15VA, 48V 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                      | : Brass                  |
| Internal Parts            | : Stainless Steel, Brass |
| Sealing                   | : Viton                  |
| Shading Ring              | : Copper (EN 12735-1)    |
| Seats, Core Tube, Springs | : Stainless Steel        |

### OPTIONS

- Female connection: BSP; (On request NPT)
- On request CR-Ni plated, PTFE coated done
- On request Atex (exproof) coil.

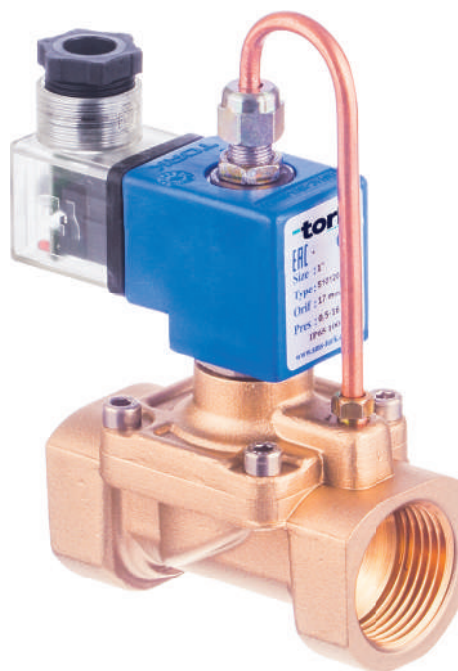
### TECHNICAL FEATURES

Max. Viscosity : 5°E (-37cST or mm<sup>2</sup>/s)

Response Time : Opening time : 400 ms  
Closing Time : 1000 ms

### SEALS FEATURES

|       |                  |
|-------|------------------|
| NBR   | : -20°C...+80°C  |
| EPDM  | : -30°C...+130°C |
| VITON | : -20°C...+160°C |
| PTFE  | : -10°C...+160°C |
| RUBY  | : -10°C...+160°C |



HIGH PRESSURE

NORMALLY OPEN

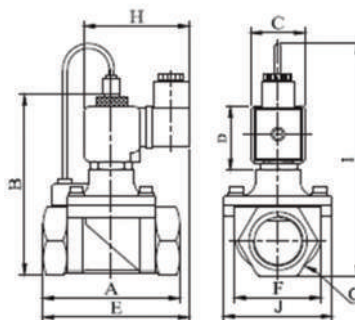
2/2 WAY

PILOT OPERATED

ΔP=0,5



FUEL



| Dimensions (mm) |    |       |    |    |      |      |    |    |       |  |
|-----------------|----|-------|----|----|------|------|----|----|-------|--|
| G               | A  | B     | C  | D  | E    | F    | J  | H  | I     |  |
| 3/8"            | 74 | 97    | 32 | 45 | 91.3 | 37.5 | 52 | 76 | 124   |  |
| 1/2"            | 79 | 100   | 32 | 45 | 92   | 39.8 | 52 | 76 | 128   |  |
| 3/4"            | 80 | 107.3 | 32 | 45 | 94   | 41.5 | 52 | 76 | 134   |  |
| 1"              | 85 | 115   | 32 | 45 | 101  | 42.5 | 52 | 76 | 143.5 |  |

| Coils         | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|
| C40012VDC18W  | 12VDC 18W      | COLD      | 19,56  | 19,56   | 1,63        | 20                       |
|               |                | HOT       | 14,52  | 14,52   | 1,21        | 106                      |
| C40024VDC18W  | 24VDC 18W      | COLD      | 20,88  | 20,88   | 0,87        | 25                       |
|               |                | HOT       | 14,64  | 14,64   | 0,61        | 116                      |
| C40110VDC18W  | 110VDC 18W     | COLD      | 19,96  | 19,96   | 0,18        | 23                       |
|               |                | HOT       | 13,56  | 13,56   | 0,123       | 115                      |
| C40012VAC15VA | 12VAC 15VA     | COLD      | 23,81  | 16,43   | 1,3         | 25                       |
|               |                | HOT       | -      | 15,86   | 1,262       | 79                       |
| C40024VAC15VA | 24VAC 15VA     | COLD      | 25,82  | 15,02   | 0,62        | 22                       |
|               |                | HOT       | -      | 13,91   | 0,57        | 81                       |
| C40110VAC15VA | 110VAC 15VA    | COLD      | 30,65  | 15,17   | 0,137       | 24                       |
|               |                | HOT       | -      | 13,96   | 0,126       | 80                       |
| C40230VAC15VA | 230VAC 15VA    | COLD      | 31,4   | 15,64   | 0,068       | 25                       |
|               |                | HOT       | -      | 14,41   | 0,063       | 80                       |
| C40230VAC24VA | 230VAC 24VA    | COLD      | 45,1   | 23,92   | 0,0154      | 23                       |
|               |                | HOT       | -      | 21,62   | 0,0154      | 100                      |

| Solenoid Valve Symbol | Valve Type/ Order No | Connection Size | Orifice Size | Pressure min/max |     | Kv    | Seal         | Weight |
|-----------------------|----------------------|-----------------|--------------|------------------|-----|-------|--------------|--------|
|                       | S4014                | G               | mm           | Bar              | Bar | l/min | Viton+Teflon | kg     |
|                       | S4014.02             | 3/8"            | 12.5         | 0.5              | 40  | 48    | ✓            | 0,71   |
|                       | S4014.03             | 1/2"            | 14.5         | 0.5              | 40  | 70    | ✓            | 0,74   |
|                       | S4014.04             | 3/4"            | 17           | 0.5              | 40  | 90    | ✓            | 0,82   |
|                       | S4014.05             | 1"              | 17           | 0.5              | 40  | 90    | ✓            | 0,98   |

### 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).