

Exproof C51 Series Large Coil

GENERAL FEATURES

- Developed for the control of fluids in explosive atmospheres or have risk of explosive atmospheres.
- Ex proof solenoid coil valves can be used for the control of LPG, natural gas, fuel oil, diesel oil and other flammable explosive fluids.
- As standard, all conductors are encapsulated with an insulating material in Ex proof solenoid coils.
- Ex proof solenoid coils (IP68) are produced as 3 meters cable as standard. It can be produced to the desired size on request.

COIL CHARACTERISTICS

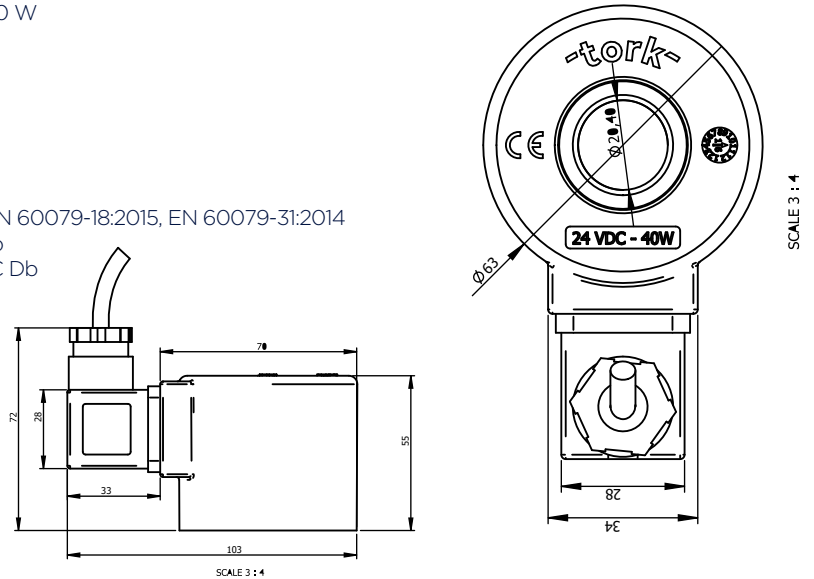
| | |
|------------------------------------|--|
| Continuous duty | : ED %100 |
| Coil wire thermal insulation class | : HB (180°C) IEC 60317-51 or HC (200 °C) IEC 60317-38 |
| Coil encapsulation material | : Fiber Glass Reinforced Poliamid 6.6 GFR 30 FR V0 |
| Ambient temperature | : -10°C, +60°C |
| IP protection degree | : IP67 as standard (ISO 60529), IP68 on request |
| Connector specification | : ISO 4400 / EN 175301-803 Form A |
| Electric connection | : With 3x0.75 mm ² cable, 3 meters (different sizes available upon request) |
| Cable specification | : HFFR (Halogen-Free, Flame Retardant) |
| Standard voltages | : AC 12V, 24V, 48V, 110V, 230V DC 12V, 24V, 48V, 110V |
| Standard power | : AC 35 - 42 VA, DC 25- 40 W |
| Frequency | : 50/ 60 Hz |
| Voltages tolerance | : +/- 10 % |

ATEX SPECIFICATIONS

| | |
|--------------------------|---|
| Certificate number | : IEP 19 ATEX 0749X |
| ATEX directive | : 2014/ 34/ EU |
| Compliance standards | : EN IEC 60079-0:2018, EN 60079-18:2015, EN 60079-31:2014 |
| ExProof protection class | : Ex II 2G Ex mb IIC T4 Gb Ex II 2D Ex tb IIIC T135°C Db |

WIRING CONNECTIONS

| | |
|--------------------|------------|
| Brown cable | : L / +VDC |
| Yellow-green cable | : Ground |
| Blue cable | : N / GND |



| Power Ratios | | | |
|--------------------------|---------|--------|---------|
| Alternative Current (AC) | | | |
| Coil Type | Voltage | Energy | Current |
| C51024VAC35VA | 24 | 35 | 1,50 |
| C5110VAC30VA | 110 | 30 | 0,27 |
| C51120VAC42VA | 120 | 42 | 0,31 |
| C51230VAC35VA | 230 | 35 | 0,16 |
| C51230VAC42VA | 230 | 42 | 0,19 |

| Power Ratios | | | |
|---------------------|---------|--------|---------|
| Direct Current (DC) | | | |
| Coil Type | Voltage | Energy | Current |
| C51012VDC40W | 12 | 40 | 3,61 |
| C51024VDC40W | 24 | 40 | 1,73 |

STANDARDS

• Standard tube connection G (BSP) (ISO 228-1) and other tube connections (NPT (ANSI 120.3)) 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

| Coils | Nominal Values | Cold/ Hot | Inrush | Holding | Current (A) | Surface Temperature (°C) | Protection Class |
|---------------|----------------|-----------|--------|---------|-------------|--------------------------|------------------|
| C51012VDC40W | 12VDC 40W | COLD | 43,32 | 43,32 | 3,61 | 24 | IP68 |
| | | HOT | 30,05 | 30,05 | 2,50 | 95 | IP68 |
| C51024VDC40W | 24VDC 40W | COLD | 41,52 | 41,52 | 1,73 | 24 | IP68 |
| | | HOT | 30,20 | 30,20 | 1,26 | 95 | IP68 |
| C51024VAC35VA | 24VAC 35VA | COLD | 40,80 | 36,15 | 1,50 | 24 | IP68 |
| | | HOT | 40,32 | 31,68 | 1,32 | 90 | IP68 |
| C5110VAC30VA | 110VAC 30VA | COLD | 39,60 | 29,92 | 0,27 | 24 | IP68 |
| | | HOT | 36,85 | 27,94 | 0,25 | 92 | IP68 |
| C51120VAC42VA | 120VAC 42VA | COLD | 45,24 | 37,56 | 0,31 | 24 | IP68 |
| | | HOT | 42,48 | 35,04 | 0,29 | 99 | IP68 |
| C51230VAC35VA | 230VAC 35VA | COLD | 43,24 | 36,57 | 0,16 | 24 | IP68 |
| | | HOT | 41,40 | 34,73 | 0,15 | 102 | IP68 |
| C51230VAC42VA | 230VAC 42VA | COLD | 50,60 | 43,93 | 0,19 | 24 | IP68 |
| | | HOT | 46,69 | 40,94 | 0,18 | 106 | IP68 |