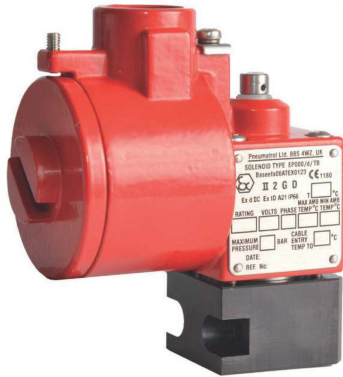


Approved Exd Flame Proof Coil Assembly (Exd IIC T6 to T3)



DESCRIPTION

Flameproof coil assembly suitable for Zones 1 and 2, manufactured in accordance with the requirements of the European harmonised standards EN/IEC60079-0, EN/IEC60079-1 and EN/IEC60079-31. Covered by Certificates CML15ATEX1119X & IECEx CML17.0147X, category Exd IIC T3 to T6.

FEATURES

- M20 or 1/2" NPT Electrical Conduit Entry
- Direct mounting to all valves meeting CNOMO fixing dimensions
- Protection class IP66 according to EN 60529
- Connection by 2-pole 2.5mm Terminal Block + earth
- Continuously rated
- Maximum permitted voltage variation $\pm 10\%$
- Internal and external earthing connection screw
- Low power consumption
- Wide range of voltages available ATEX, IECEx, GOST CU TR, NEPSI approvals available

PRODUCT CODE: **E 1 3 A X C D** **0** **0** **0** **0**

OPTIONS 1 VOLTAGE DESIGNATOR OPTIONS 2

SEE BELOW FOR
PRODUCT CODE
DETAILS

Any of the below options that are not required enter '0' in relevant box.

Options 1

| | |
|---|-----------------------------|
| C | Lever manual override |
| D | Push button manual override |
| S | Screw driver override |
| 0 | No option required |

Standard Voltage

| | |
|---|--------------------|
| B | 24v DC |
| H | 24v DC Low Power |
| R | 24v AC (50/60 Hz) |
| 7 | 110v AC (50/60 Hz) |
| N | 220v AC (50/60 Hz) |
| U | 240v AC (50/60 Hz) |

Designator

| | |
|---|------------|
| A | ATEX/IECEx |
| R | GOST CU TR |
| X | NEPSI |

Options 2

| | |
|---|--|
| 0 | No option required |
| E | 1/2" NPT electrical connection |
| L | Low temperature duty $-65^{\circ}\text{C}^{(1)}$ |
| S | Valve body stainless steel |

Note:
(1) -40°C when used with Pneumatrol spool valve

* A comprehensive range of non-standard voltages available on request

FLAMEPROOF SAFETY

Flameproof equipment is used extensively to prevent possible overheating or sparking of electrical equipment causing ignition in a potentially explosive atmosphere.

In the case of a solenoid the coil is enclosed in a robust enclosure which will contain an internal explosion should it occur and prevent its transmission to the surrounding atmosphere.

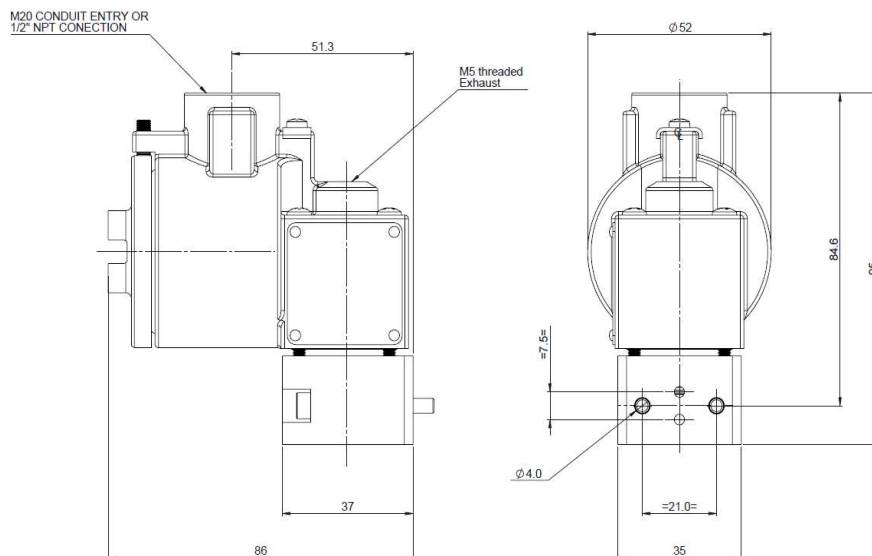
All construction joints in the enclosure are known as flame paths which prevent the transmission of a flame from within the enclosure to the outside atmosphere.

CABLE GLANDS AND CABLE

Cable Glands 2nd Field wiring must be of a certified type and the cabling methods used must be suitable for the conditions of use. (EN/IEC60079-14)

Sealing of the gland thread is not a requirement of the approval but thread sealant or sealing washers may be used to maintain the IP rating of the enclosure. (EN/IEC60079-14)

DIMENSIONS (mm)



MATERIAL SPECIFICATIONS

Standard

| | |
|-------------------------------|-------------------------------------|
| Coil Case | Stainless Steel Epoxy Powder Coated |
| Armature and Fixed Pole Piece | Magnetic Stainless Steel |
| Springs | Stainless Steel |
| Seals and Seats | Nitrile / Viton |
| Coil Former | 45% Glass Filled PBT |
| Coil Wire | Class H Coated Copper |
| Guide Tube | Stainless Steel |
| CNOMO Interface | Black Anodised Aluminium |

SOLENOID SPECIFICATIONS

| Coil Type | DC Solenoid Coil | AC Solenoid |
|-----------------------|---|---|
| Voltage Standard | 24 | 24, 110, 220, 240 (50/60 Hz) |
| Voltage Tolerance | ±10% | ±10% |
| Ambient Temperature | -20 to +80°C | -20 to +55°C |
| Duty Cycle | 100% | 100% |
| Degree Of Protection | IP66 | IP66 |
| Electrical Connection | Junction Box with M20 or 1/2" NPT Conduit Entry | Junction Box with M20 or 1/2" NPT Conduit Entry |
| Power Consumption | 3W or 1.3W | Pull In - 9.5VA, Holding - 5VA |
| Pressure Range | 0 - 10 Bar | 0 - 10 Bar |

TEMPERATURE (Please refer to certificates CML15ATEX1119X & CML17.0147X for further clarification)

| Temperature Rating | Voltage | Rating | Max. Ambient Temp. | Max. Cable Entry Temp. |
|--------------------|-------------------|--------|--------------------|------------------------|
| T6 | DC | 3W | 40°C | N/A |
| T4 | AC | 9.5VA | 40°C | 90°C |
| T5 | DC | 3W | 55°C | N/A |
| T3 | AC | 9.5VA | 55°C | 105°C |
| T4 | DC | 3W | 60°C | 85°C |
| T4 | DC | 3W | 80°C | 105°C |
| T5 | AC/DC (rectified) | 3W | 55°C | N/A |
| T6 | AC/DC (rectified) | 3W | 40°C | N/A |