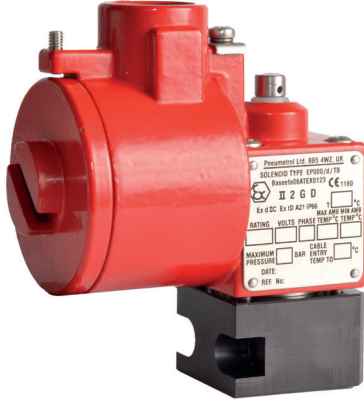


# CNOMO Based Solenoid, E13AXC Series



## DESCRIPTION

Direct acting spring return normally closed solenoid, conforming to CNOMO standards.

Hazardous area approved pilot operators (ExnA, Exe mb, Exme, Exd and Exia) are available with various international approvals – ATEX, IECEx, FM, GOST CU TR (Russia) and NEPSI (China).

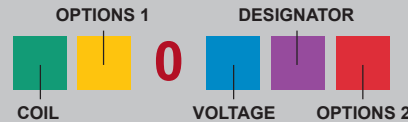
Body material available in

- Aluminium (standard)
- Stainless Steel
- Brass

## FEATURES

- Direct mounting to all valves meeting CNOMO fixing dimensions
- Interchangeable coils, including various hazardous area options
- Pilot exhaust dust caps fitted as standard
- SIL 2 Capable (De-energise to trip @ HFT=0) SIL 3 Capable (De-energise to trip @ HFT=1)
- (Our manual override options are **NOT** currently covered by SIL Certification)

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



SEE BELOW FOR  
PRODUCT CODE  
DETAILS

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

### Coil

|   |                                 |
|---|---------------------------------|
| A | Exia                            |
| B | Terminal Box                    |
| D | Exd                             |
| H | Plug & Socket Exia              |
| K | MC30 Plug & Socket              |
| L | MC30 Plug & Socket with LED     |
| P | Plug & Socket                   |
| S | Exia Stainless Steel Housing    |
| Y | ExnA Plug & Socket              |
| 4 | Stainless Steel Housing         |
| 5 | ExnA Stainless Steel Housing    |
| 8 | Ex e mb Stainless Steel Housing |

### Options 1

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

\* Not SIL approved with manual override options

### Standard Voltage

|   |                                 |
|---|---------------------------------|
| B | 24v DC                          |
|   | 24v DC Low Power <sup>(1)</sup> |
|   | 24v AC (50/60 Hz)               |
|   | 110v AC (50/60 Hz)              |
|   | 240v AC (50/60 Hz)              |

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

#### Note:

- (1) "H" option not available with Exia solenoids
- (2) IECEx only available with Exia and Exd Solenoids
- (3) GOST CU TR only available with Exd solenoids
- (4) NEPSI only available with Exia and Exd solenoids

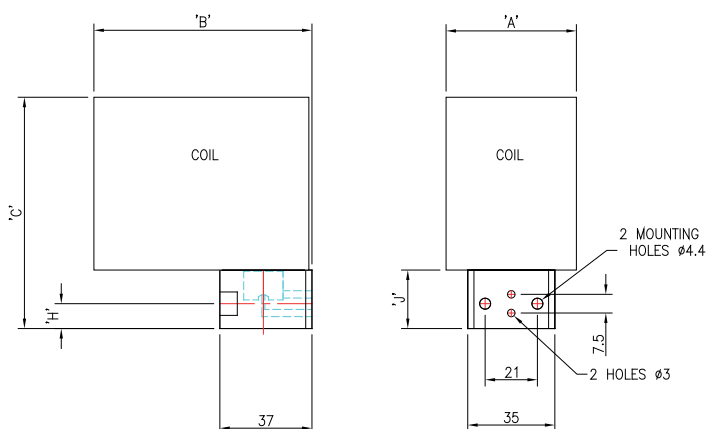
### Designator

|   |                             |
|---|-----------------------------|
| A | ATEX / IECEx <sup>(2)</sup> |
| B | ATEX / IECEx (10mA)         |
| F | FM / CSA                    |
| G | ATEX Exd IIB                |
| J | ATEX Ex e mb                |
| R | GOST CU TR <sup>(3)</sup>   |
| X | NEPSI <sup>(4)</sup>        |

### Options 2

|   |                                |
|---|--------------------------------|
| B | Valve body brass               |
| E | 1/2" NPT electrical connection |
| L | Low temperature duty -40°C     |
| S | Valve body stainless steel     |

## DIMENSIONS (mm)



| COIL TYPE                      | A  | B  | C  | H    | J    |
|--------------------------------|----|----|----|------|------|
| Heavy Duty Mazak Plug & Socket | 36 | 81 | 67 | 10.5 | 24   |
| Standard Terminal Box          | 36 | 68 | 75 | 10.5 | 24   |
| SS Terminal Box                | 52 | 88 | 92 | 10.5 | 24   |
| ExnA Terminal Box              | 36 | 68 | 75 | 10.5 | 24   |
| Exd SS Terminal Box            | 52 | 88 | 92 | 10.5 | 24   |
| Exia SS Terminal Box           | 52 | 88 | 99 | 11.5 | 31.5 |
| Exia Std. Terminal Box         | 36 | 68 | 82 | 11.5 | 31.5 |
| Exia Plug & Socket             | 36 | 94 | 70 | 11.5 | 31.5 |

## MATERIAL SPECIFICATIONS

### STANDARD

|      |                                    |
|------|------------------------------------|
| Body | Natural Anodised Aluminium (Dural) |
| Jet  | Brass                              |

## VALVE SPECIFICATIONS

### STANDARD

|   |  |
|---|--|
| Working Pressure                              | 0 to 10 bar                                    |
| Cv Factor                                     | 0.06 (0.04 Intrinsically safe coil)            |
| Flow Rate (at 6 bar with 1 bar pressure drop) | 62 l/min<br>42 l/min (Intrinsically safe coil) |
| Maximum Ambient Temperature                   | +80 °C   |
| Minimum Working Temperature                   | -20 °C   |

## COIL DETAILS

| Coil Type           | Plug & Socket | Terminal Box  | ExnA          | Exd           | Ex e mb       | Exia          |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Area Class          | Safe          | Safe          | Zone 2        | Zones 1 & 2   | Zones 1 & 2   | Zone 0, 1 & 2 |
| Area Category       | N/A           | N/A           | ExN II T4-T6  | Exd IIC T3-T6 | Exm IIC T5    | Exia IIC T6   |
| Ingress Protection  | IP65          | IP65          | IP65          | IP66          | IP65          | IP65          |
| Cable Entry         | PG.9          | M20 x 1.5     | M20 x 1.5     | M20 x 1.5     | Flying leads  | M20 x 1.5     |
| Ambient Temperature | -20 to +80 °C | -20 to +80 °C | -40 to +60 °C | -60 to +80 °C | -20 to +65 °C | -40 to +65 °C |
| Magnetic Wire Class | H             | H             | H             | H             | H             | H             |

**\* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST**