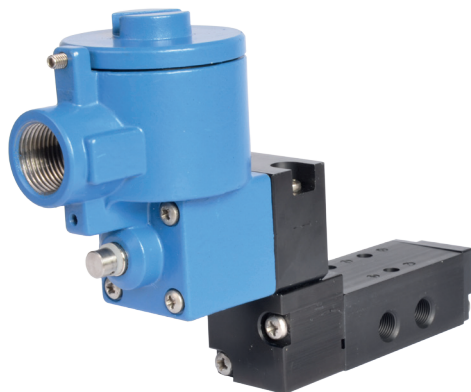
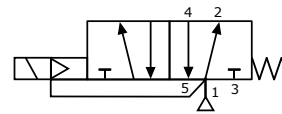


REMOTE  
MOUNTED

**pneumatrol**  
A ROSS CONTROLS Company

## E15--C Series, 1/8", 5/2 Function Solenoid Valve



### DESCRIPTION

5 port 2 position, pilot operated solenoid valve.

Hazardous area approved pilot operators (ExnA, Ex e mb, 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

Seal kit available – VSK100

### FEATURES

- Internal or external pilot air connection
- Single coil spring return function or double coil stay put function
- Convenient fixing holes to enable bracket mounting
- Pilot exhaust dust caps fitted as standard
- Interchangeable CNOMO interface coil units, including hazardous area options
- SIL 2 Capable (De-energise to trip @ HFT=0) SIL 3 Capable (De-energise to trip @ HFT=1)

PRODUCT CODE:

**E 1 5**

**C**

OPERATOR

OPTIONS 1

**0**

COIL

DESIGNATOR

**0**

VOLTAGE

**0**

OPTIONS 2

SEE BELOW FOR  
PRODUCT CODE  
DETAILS

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

#### Operator

- |   |   |  |
|---|---|--|
| 1 | 8 | Spring return, internal pilot air feed         |
| 8 | 0 | Spring return, external pilot air connection   |
| 1 | 9 | Double solenoid, internal pilot air feed       |
| 9 | 0 | Double solenoid, external pilot air connection |

#### 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       |
| 0 | No option required          |
- \* Not SIL approved with manual override options**

#### Standard Voltage

- |   |                                 |
|---|---------------------------------|
| B | 24v DC                          |
| H | 24v DC Low Power <sup>(1)</sup> |
| R | 24v AC (50/60 Hz)               |
| T | 110v AC (50/60 Hz)              |
| N | 220v AC (50/60 Hz)              |
| U | 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   |
| C | Valve body brass and NPT ports   |
| D | Valve body brass, NPT ports and 1/2" NPT electrical connection           |
| E | 1/2" NPT electrical connection   |
| M | NPT ports and 1/2" NPT electrical connection                             |
| N | NPT ports  |
| P | Valve body stainless steel, NPT ports and 1/2" NPT electrical connection |
| R | Valve body stainless steel and NPT ports                                 |
| S | Valve body stainless steel   |

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

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The coil itself can be rotated in 90° steps by releasing the four securing screws. (FIG 1) When rotating the coil care should be taken to ensure the core assembly (core, spring, seal and washer) remains intact and aligned correctly. This is easily achieved by only lifting the coil the small amount required to clear the screws enabling the coil to be rotated.



Technical drawings of the 101 Series Valve. The top drawing is a front view showing dimensions 'A' and 'B', and overall dimensions 'C' and 'D'. It features a COIL, a DOUBLE COIL POSITION, and a 5-position selector (1-5) with an OPTIONAL MANUAL OVERRIDE. The bottom drawing is a side view showing dimensions 'A' and 'B', and overall dimensions 'C' and 'D'. It features a COIL, a DOUBLE COIL POSITION, and a G 1/8 connection. The bottom drawing also shows dimensions 22, 18, 29, 64, 6, and 101.

COIL TYPE	A	B	C	D
MC30 Plug & Socket	36	101	145	215
Heavy Duty Mazak Plug & Socket	36	112	145	215
Standard Terminal Box	36	99	153	231
SS Terminal Box	52	119	170	265
ExnA SS Terminal Box	52	119	170	265
Exd SS Terminal Box	52	119	170	265
Ex e mb SS Terminal Box	52	119	170	265
Piezo Operator	32	72	154	233
Exia SS Terminal Box	52	119	177	279
Exia Std. Terminal Box	36	99	160	245
Exia Plug & Socket	36	125	148	221

## STANDARD

Body And End Caps	Black Anodised Aluminium (Dural)
Spool	Hard Anodised Aluminium PTFE Impregnated
Jet	Brass
Spacers	Glass Filled Acetal
Seals	Nitrile
Spring	Music Wire

## STANDARD

Port Connection Size	1/8" BSP
Working Pressure Internal Pilot Version	3 to 10 bar
Working Pressure External Pilot Version	3 to 10 bar
Minimum External Pilot Pressure	3 bar
Cv Factor	0.4
Flow Rate (at 6 bar with 1 bar pressure drop)	382 l/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

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	Ex nA II T4-T6	Exd IIC T3-T6	Ex e mb IIC T4	Exia IIC T6
Ingress Protection	IP65	IP65	IP65	IP66	IP66	IP65
Cable Entry	PG.9	M20 x 1.5	M20 x 1.5 or PG.9	M20 x 1.5	M20 x 1.5	M20 x 1.5
Ambient Temperature	-20 to +80 °C	-20 to +80 °C	-20 to +60 °C	-20 to +80 °C	-20 to +65 °C	-20 to +65 °C
Magnetic Wire Class	H	H	H	H	H	H

Specifications subject to change without prior notice.