

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



DESCRIPTION

5 Port 2 position, pilot operated solenoid valve.

- Pilot operated solenoid valve.
- Hazardous area approved pilot operators
 - ExnA, Ex e mb, Exd & Exia
- Various international approvals
 - ATEX, IECEx, FM/CSA & UKCA
- Body material available in
 - Aluminium (standard), Stainless steel & Brass
- Seal kit available - VSK100

Valve Assembly illustrated with a stainless steel terminal box for reference only.

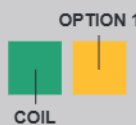
FEATURES

- External or internal 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)
- Our manual override options are **NOT** currently covered by SIL Certification

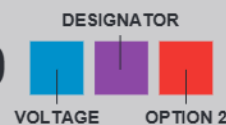
PRODUCT CODE: **E 15**



C



0



SEE BELOW
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

Voltage

- B** 24v DC
- H** 24v DC Low Power*(1)
- R** 24v AC (50/60 Hz)
- T** 110v AC (50/60 Hz)
- U** 240v AC (50/60 Hz)

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

Designator

- A** ATEX / IECEx / CCCEX*(2)
- B** ATEX / IECEx / CCCEX (10mA)*(4)
- F** FM / CSA*(3)
- J** ATEX Ex e mb

Option 2

- B** Valve body brass
- C** Valve body brass and NPT ports
- D** Valve body brass, NPT ports and 1/2" NPT electrical connection
- L** Low temperature duty -40°C
- 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

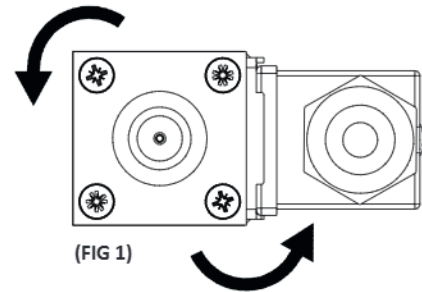
Note:

- (1) "H" option not available with Exia solenoids
- (2) IECEx & CCCEX only available with Exia and Ex db solenoids
- (3) FM only available in Exia
- (4) Exia Only

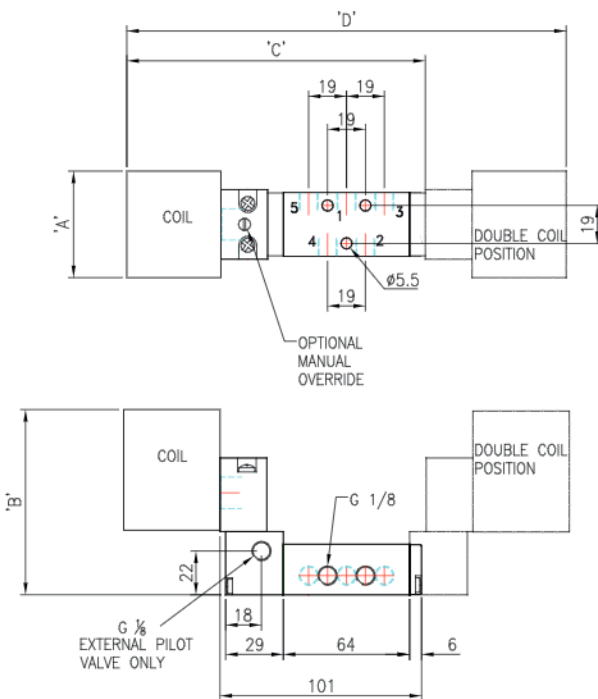
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COIL ORIENTATION

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.



DIMENSIONS



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 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

MATERIAL SPECIFICATIONS

STANDARD

Body and End Caps	Black Anodised Aluminium (Dural)
Spool	Hard Anodised Aluminium PTFE Impregnated
Spacers	Glass Filled Acetal
Seals	Nitrile (Alternative Seals Available)
Spring	Music Wire

VALVE SPECIFICATIONS

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 DETAILS

Coil Type	Plug & Socket	Terminal Box	ExnA	Exd	Ex e mb	Exia
Area Class	Safe	Safe	Zone 2	Zone 1	Zone 1	Zone 1
Area Category	N/A	N/A	ExnA 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	PG.9	M20 x 1.5	M20 x 1.5	M20 x 1.5
Ambient Temperature	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Magnetic Wire Class	H	H	H	H	H	H

Further solenoid options available on request