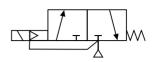








E13--C Series, 1/8", 3/2 **Function Solenoid Valve**





DESCRIPTION

3 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

- 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 (Deenergise to trip @ HFT=0) SIL 3 Capable (Deenergise to trip @ HFT=1)



Operator

- Spring return, internal pilot air feed
- Spring return, external pilot air connection
- Double solenoid, internal pilot air feed
- Double solenoid, external pilot air connection

Coil

Exia

Exd

- **Options 1**
 - Lever manual override
 - Push button manual override
 - Screw driver override
 - No option required
 - * Not SIL approved with
 - manual override options
- with LED Plug & Socket
- Exia Stainless Steel Housing
- ExnA Plug & Socket
- Stainless Steel Housing

Plug & Socket Exia

MC30 Plug & Socket

MC30 Plug & Socket

- ExnA Stainless Steel Housing
- Ex e mb Stainless Steel Housing

Standard Voltage

- 24v DC
- 24v DC Low Power (1)
- 24v AC (50/60 Hz)
- 110vAC (50/60 Hz)
- 220v AC (50/60 Hz)
- 240v AC (50/60 Hz)
- * A comprehensive range of nonstandard voltages available on request

Designator

- A ATEX / IECEx (2)
- ATEX / IECEx (10mA)
- FM / CSA
- G ATEX Exd IIB
- ATEX Ex e mb
- R GOST CU TR (3)
- NEPSI (4)

Options 2

- B Valve body brass
- Valve body brass and NPT ports
- Valve body brass, NPT ports and 1/2" NPT electrical connection
- 1/2" NPT electrical connection
- NPT ports and 1/2" NPT electrical

- Valve body stainless steel, NPT ports and 1/2" NPT electrical connection
- Valve body stainless steel and NPT
- S Valve body stainless steel
- * A comprehensive range of nonstandard

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

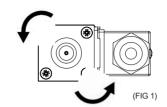




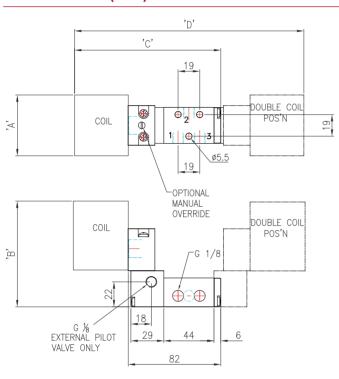


COIL ORIENTATION

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 (mm)



COIL TYPE	Α	В	С	D
MC30 Plug & Socket	36	101	126	195
Heavy Duty Mazak Plug & Socket	36	112	126	195
Standard Terminal Box	36	99	134	211
SS Terminal Box	52	119	151	245
ExnA SS Terminal Box	52	119	151	245
Exd SS Terminal Box	52	119	151	245
Ex e mb SS Terminal Box	52	119	151	245
Piezo Operator	32	72	135	213
Exia SS Terminal Box	52	119	158	259
Exia Std. Terminal Box	36	99	141	225
Exia Plug & Socket	36	125	129	201

MATERIAL SPECIFICATIONS

	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

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	Zones 1 & 2	Zones 1 & 2	Zone 0, 1 & 2
Area Category	N/A	N/A	Ex nA II T4T6	Exd IIC T3T6	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	Н	Н	Н	Н	Н	Н

* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST

Official Stockist: