

# E23--C Series, 1/4", 3/2 Function Solenoid Valve



#### **DESCRIPTION**

3 port 2 position, pilot operated solenoid valve.

Valve is illustrated with an Exm coil.

Body material available in

- Aluminium (standard)
- Stainless Steel
- Brass

Seal kit available - VSK200

#### **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
- SIL2 on energising, SIL3 on de-energising when used in 3/2 mode



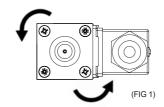
#### **Standard Options 1 Operator** Coil **Designator Options 2** Voltage Spring return, internal Exia (BASEEFA) B Valve body brass Lever manual override 24v DC Low Power (1) C IECEx (2) Terminal Box Push button manual override Valve body brass and NPT ports Spring return, external pilot air connection 24v AC (50/60 Hz) Exme 0.5W Exia (FM) Screw driver override (standard) Valve body brass, NPT ports and 1/2" NPT electrical connection Double solenoid, internal D 110v AC (50/60 Hz) G ATEX Exd IIB No option required pilot air feed 1/2" NPT electrical connection н 220v AC (50/60 Hz) Exm MC30 Plug & Socket Double solenoid, external Low temperature duty -40°C U 240v AC (50/60 Hz) pilot air connection Exme 2.4W FxnA NPT ports and 1/2" NPT electrical \* A comprehensive GOST CU TR (3) Plug & Socket range of non-standard connection Exia (BASEEFA) Stainless X NEPSI (4) voltages available on Steel Housing request Valve body stainless steel, NPT ports No Coil Unit and 1/2" NPT electrical connection Exm Valve body stainless steel and NPT (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 Valve body stainless steel X Valve suitable for use with Oxygen Coils with cURus approval for USA & CANADA markets are available on request with voltage

24VDC, 120V 60Hz, 240V 60Hz.

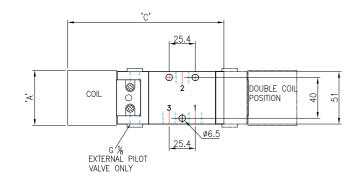


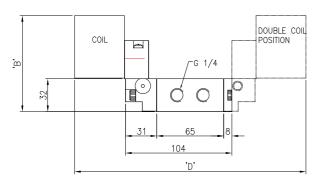
## **COIL ORIENTATION**

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 alined 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)**





COILTYPE	Α	В	С	D
MC30 Plug & Socket	36	102	149	216
Heavy Duty Mazak Plug & Socket	36	113	149	216
Standard Terminal Box	36	100	157	232
SS Terminal Box	52	120	174	266
ExnA Terminal Box	36	100	157	232
Exd SS Terminal Box	52	120	174	266
Exm Flying Lead	36	107	145	208
Exme Terminal Box	36	100	157	232
Piezo Operator	32	73	158	234
Exia SS Terminal Box	52	120	181	280
Exia Std. Terminal Box	36	100	164	246
Exia Plug & Socket	36	126	152	222

# **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 (Alternative Seals Available)
Spring	Music Wire

#### **VALVE SPECIFICATIONS**

	STANDARD
Port Connection Size	1/4" 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	1.2
Flow Rate (at 6 bar with 1 bar pressure drop)	1246 I/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

## **COIL DETAILS**

Coil Type	Plug & Socket	Terminal Box	ExnA	Exd	Exm	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	Н	Н	Н	Н	Н	Н

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