

E45--C Series, 1/2", 5/2 Function Solenoid Valve

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DESCRIPTION

5 port 2 position, pilot operated solenoid valve.

Valve is illustrated with an Exia plug & socket coil.

Body material available in

- Aluminium (standard)
- · Stainless Steel
- Brass

Seal kit available - VSK501

FEATURES

- · Internal or external pilot air connection
- · Interchangeable CNOMO interface coils, including various hazardous area options
- 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

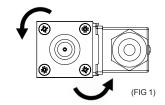


Standard Options 1 Operator Coil **Voltage Designator Options 2** Spring return, internal Exia (BASEEFA) 24v DC Α ATEX Valve body brass Lever manual override 24v DC Low Power (1) С IECEx (2) Terminal Box Push button manual override C Valve body brass and NPT ports Spring return, external pilot air connection 24v AC (50/60 Hz) Exme 0.5W Exia (FM) Screw driver override (standard) Valve body brass, NPT ports and 1/2" Double solenoid, internal 110v AC (50/60 Hz) ATEX Exd IIB G D Exd No option required pilot air feed 1/2" NPT electrical connection н 220v AC (50/60 Hz) Fxm MC30 Plug & Socket Double solenoid, external Low temperature duty -40°C U 240v AC (50/60 Hz) pilot air connection J Exme 2.4W N ExnA NPT ports and 1/2" NPT electrical * A comprehensive М R GOST CU TR (3) Plug & Socket range of non-standard 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 Valve body stainless steel (4) NEPSI only available with Exia and Exd solenoids X Valve suitable for use with Oxygen

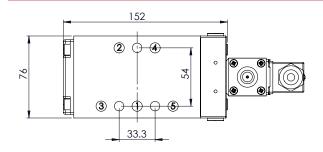


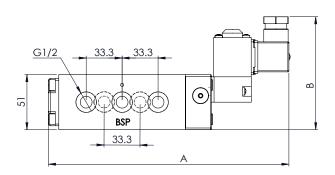
COIL ORIENTATION

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)





COIL TYPE	Α	В
Plug & Socket	223	105
MC30 Coil	215	100
Terminal Box	220	114
ExnA	220	114
Exd	236	126
Exia	188	120
Exm	188	96

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
Inlet Port Connection Size	1/2" 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	3.5
Flow Rate (at 6 bar with 1 bar pressure drop)	3534 I/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

COIL DETAILS

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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	H	Н	Н	Н	Н

* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST