

Type T25 Series, 1/4" Ported, 5/3 Pilot **Operated Solenoid Valve**



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DESCRIPTION

Solenoid valve designed for direct mounting onto 1/4 turn pneumatically operated valve actuators meeting 'NAMUR' standard fixing dimensions.

Valve is illustrated with dual safe area plug & socket coils.

Body material available in

- Aluminium (standard)
- Stainless Steel
- Brass

Seal kit available - VSKT25P

FEATURES

- Interchangeable CNOMO interface operators including various hazardous area options
- Integrated Exhaust to Spring (ETS) feature in 3/2 position
- Top face air connection
- 1/4" mains air and exhaust ports
- Solenoid/spring or solenoid/solenoid functions
- Built in 3/2 to 5/2 function conversion facility for spring return and double acting actuators respectively
- SIL2 on energising, SIL3 on de-energising when used in 3/2 mode

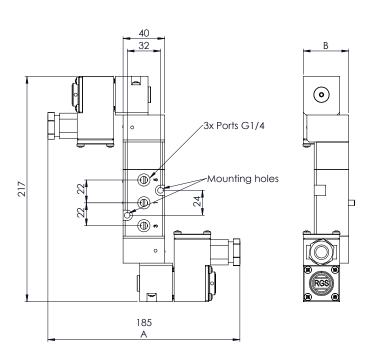


Standard Operator Coil **Options 1** Voltage **Designator Options 2** All ports sealed mid Exia (BASEEFA) Lever manual override ATEX Valve body brass position, internal pilot IECEx (2) С Terminal Box Push button manual override 24v DC Low Power (1) air feed Valve body brass and NPT ports All ports sealed mid Exia (FM) Screw driver override (standard) 24v AC (50/60 Hz) Exme 0.5W Valve body brass, NPT ports and 1/2" position, external pilot air NPT electrical connection ATEX Exd IIB 110v AC (50/60 Hz) G D Exd No option required connection 1/2" NPT electrical connection Н 220v AC (50/60 Hz) MC30 Plug & Socket Exm Inlet sealed open exhaust Low temperature duty -40°C mid position, internal pilot N ExnA 240v AC (50/60 Hz) Exme 2.4W air feed NPT ports and 1/2" NPT electrical * A comprehensive GOST CU TR (3) Plug & Socket connection Inlet sealed open exhaust Exia (BASEEFA) Stainless NEPSI (4) voltages available on mid position, external pilot Steel Housing request air connection Valve body stainless steel, NPT ports No Coil Unit and 1/2" NPT electrical connection 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 Valve suitable for use with Oxygen

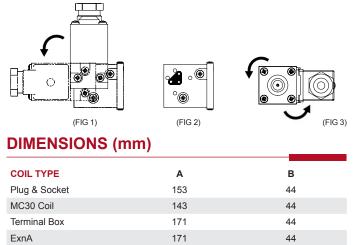


COIL ORIENTATION

The solenoid pilot can be mounted in two possible positions by rotating the solenoid base through 90° (FIG 1). This is achieved by releasing the two M4 pozi-drive screws which secure the solenoid pilot to the valve body. When changing the solenoid pilot position care should be taken to ensure the triangular gasket seal is in place. (FIG 2)



The coil itself can be rotated in 90° steps by releasing the four securing screws. (FIG 3) 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.



195

183

135

44

MATERIAL SPECIFICATIONS

	STANDARD
Body and End Caps	Black Anodised Aluminium (Dural)
Spool	Hard Anodised Aluminium PTFE Impregnated
Spacers	Glass Filled Acetal
Seals	Nitrile
Spring	Music Wire
Mounting Screws	Stainless Steel
NAMUR Interfaced Plates	Nylon 66 30% Glass Filled

VALVE SPECIFICATIONS

Exd

Exia

Exm

	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	1.1
Flow Rate (6 bar inlet pressure, 1 bar pressure drop)	1050 l/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