

Type T25 Series, 1/4" Ported, 3/2 or 5/2 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 terminal box 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

PRODUCT CODE:

T 2 5

P
OPERATOR

0
COIL

0
VOLTAGE

0
OPTIONS 2

SEE BELOW FOR
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 (BASEEFA)
- B** Terminal Box
- C** Exia (FM)
- D** Exd
- K** MC30 Plug & Socket
- N** ExnA
- P** Plug & Socket
- S** Exia (BASEEFA) Stainless Steel Housing
- 0** No Coil Unit
- 9** Exm

Options 1

- C** Lever manual override
- D** Push button manual override
- S** Screw driver override (standard)
- 0** No option required

Standard Voltage

- B** 24v DC
- H** 24v DC Low Power ⁽¹⁾
- R** 24v AC (50/60 Hz)
- T** 110v AC (50/60 Hz)
- N** 220v AC (50/60 Hz)
- U** 240v AC (50/60 Hz)

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

Designator

- A** ATEX
- C** IECEx ⁽²⁾
- E** Exme 0.5W
- G** ATEX Exd IIB
- H** Exm
- J** Exme 2.4W
- R** GOST CU TR ⁽³⁾
- X** NEPSI ⁽⁴⁾

Options 2

- B** Valve body brass
- C** Valve body brass and NPT ports
- D** Valve body brass, NPT ports and 1/2" NPT electrical connection
- E** 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
- X** Valve suitable for use with Oxygen

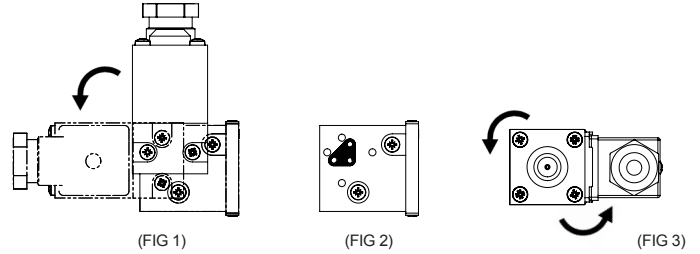
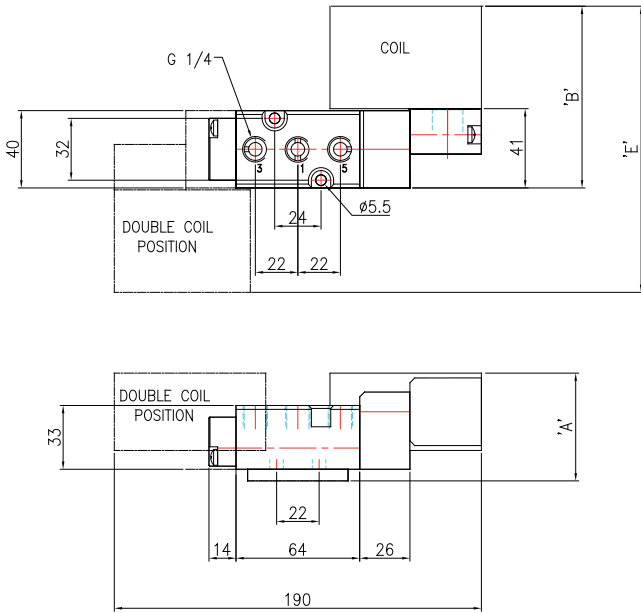
Note:

- (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 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 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	A	B	E
MC30 Plug & Socket	54	85	130
Heavy Duty Mazak Plug & Socket	54	85	130
Standard Terminal Box	54	93	146
SS Terminal Box	62	110	180
ExnA Terminal Box	54	93	146
Exd SS Terminal Box	62	110	180
Exm Flying Lead	54	81	122
Exme Terminal Box	54	93	146
Piezo Operator	52	94	148
Exia SS Terminal Box	62	117	194
Exia Std. Terminal Box	54	100	160
Exia Plug & Socket	54	88	136

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

	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	H	H	H	H	H	H

*** FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST**