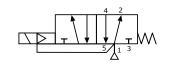
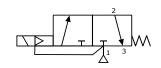
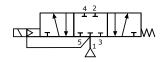
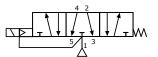


Type T25 Series, 1/4" Ported, 3/2, 5/2 or 5/3 Pilot Operated Solenoid Valve









DESCRIPTION

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

Hazardous area approved pilot operators (ExnA, Exm, Exme, 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 - 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
- The valve is fitted with a change-over plate that allows the valve to be converted from 3/2 to 5/2 function quickly and easily for spring return and double acting actuators
- SIL2 on energising, SIL3 on de-energising when used in 3/2 mode

Coil

SEE BELOW FOR **OPTIONS 1** DESIGNATOR PRODUCT CODE: T 2 5 **DETAILS** Any of the below options that are not required enter '0' in **OPERATOR** COIL **VOLTAGE OPTIONS 2** relevant box. **Standard**

Options 1

No option required

Operator Spring return, internal pilot air feed Spring return, external pilot air connection Double solenoid, internal nilot air feed Double solenoid, external 5/3 All ports sealed mid position, internal pilot air feed 5/3 All ports sealed mid position, external pilot air connection 5/3 Inlet sealed open

exhaust mid position,

internal pilot air feed

5/3 Inlet sealed open

exhaust mid position,

external pilot air

connection

Terminal Box Exd Plug & Socket Exia MC30 Plug & Socket MC30 Plug & Socket N ExnA Plug & Socket Exia (BASEEFA) Stainless Steel Housing Inline Terminal Box Exia (FM) No Coil Unit Exm 4 stainless steel coil ½" NPT conduit

Exia (BASEEFA)

Lever manual override Push button manual override Screw driver override (standard)

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

Voltage

G ATEX Exd IIB Exme 2.4W GOST CU TR (3) NEPSI (4) 0 no safe area (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

Designator

Exia 10mA

IECEx (2)

Exme 0.5W

ATEX

В

Ε

Options 2

aive body brass
alve body brass and NPT ports
alve body brass, NPT ports and 1/2° IPT electrical connection
/2" NPT electrical connection
ow temperature duty -40°C

- NPT ports and 1/2" NPT electrical
- NPT ports
- Valve body stainless steel, NPT ports and 1/2" NPT electrical connection
- Valve body stainless steel and NPT
- Valve body stainless steel
- Valve suitable for use with Oxygen

A comprehensive range of non-standard options available on request



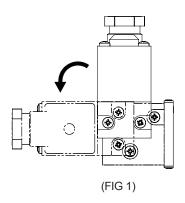
EXHAUST TO SPRING

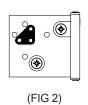
In 3/2 function a proportion of clean air exhausting from the actuator is fed back into the spring chamber.

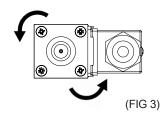
COIL ORIENTATION

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.







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

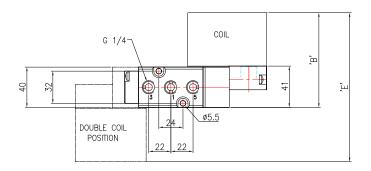
Coil Type	Plug & Socket	Terminal Box	ExnA	Exd	Exm	Exia
Area Class	Safe	Safe	Zone 2	Zones 1 & 2	Zones 1 & 2	Zone 0, 1 & 2
Area Category	N/A	N/A	ExN II T4-T6	Exd IIC T3-T6	Exm IIC T5	Exia IIC T6
Ingress Protection	IP65	IP65	IP65	IP66	IP65	IP65
Cable Entry	PG.9	M20 x 1.5	M20 x 1.5	M20 x 1.5	Flying leads	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	Н	Н	Н	Н	Н	Н

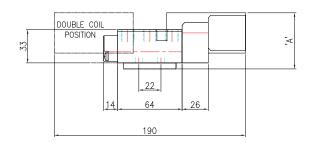
* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST



DIMENSIONS (mm)

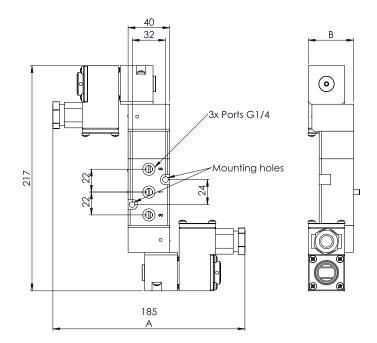
3/2 or 5/2 Position





COIL TYPE	Α	В	Е
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

5/3 Position



COIL TYPE	Α	В
Plug & Socket	153	44
MC30 Coil	143	44
Terminal Box	171	44
ExnA	171	44
Exd	195	52
Exia	183	44
Exm	135	44