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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



Operator	Coil	Options 1	Standard Voltage	Designator	Options 2
1 8 Spring return, internal pilot air feed	A Exia (BASEEFA)	C Lever manual override	B 24v DC	A ATEX	B Valve body brass
8 0 Spring return, external	B Terminal Box	D Push button manual override	H 24v DC Low Power ⁽¹⁾	C IECEx ⁽²⁾	C Valve body brass and NPT ports
pilot air connection	C Exia (FM)	S Screw driver override (standard)	R 24v AC (50/60 Hz)	E Exme 0.5W	Valve body brass, NPT ports and 1/2"
1 9 Double solenoid, internal pilot air feed	D Exd	0 No option required	T 110v AC (50/60 Hz)	G ATEX Exd IIB	NPT electrical connection
Dauble colorarid automol	K MC30 Plug & Socket		N 220v AC (50/60 Hz)	H Exm	E 1/2" NPT electrical connection
9 0 Double solenoid, external pilot air connection	N ExnA		U 240v AC (50/60 Hz)	J Exme 2.4W	L Low temperature duty -40°C
	P Plug & Socket		* A comprehensive range of non-standard	R GOST CU TR ⁽³⁾	M NPT ports and 1/2" NPT electrical connection
	S Exia (BASEEFA) Stain Steel Housing	less	voltages available on request	X NEPSI ⁽⁴⁾	N NPT ports
	0 No Coil Unit		. oquoor		P Valve body stainless steel, NPT ports and 1/2" NPT electrical connection
	9 Exm		: " option not available with Ex CEx only available with Exia		R Valve body stainless steel and NPT ports
		(3) G	OST CU TR only available w EPSI only available with Exia	ith Exd solenoids	S Valve body stainless steel

X Valve suitable for use with Oxygen



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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)





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

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.



DIMENSIONS (mm)

COIL TYPE	Α	В	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

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

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