EEXDIICT6 SERIES NAMUR TYPE SOLENOID VALVE

DESCRIPTION

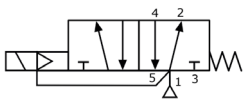
Solenoid valve designed for direct mounting onto 1/4 turn pneumatically operated valve actuators meeting 'NAMUR' standard fixing dimensions.

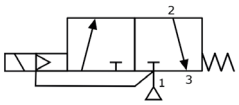
Hazardous area approved pilot operators (ExnA, Exm, Exme, Exd and Exia) are available with various international approvals – ATEX, IECEx, FM, GOST CU TR (Russia) and NEPSI (China).

Body material available in

- Aluminium (standard)
- Stainless Steel
- Brass

Seal kit available – VSKC15P





FEATURES

- Interchangeable CNOMO interface coil units, including various hazardous area options
- Integrated Exhaust to Spring (ETS) feature in 3/2 position
- Top face air connection
- 1/4"BSP mains air connection and 1/8"BSP exhaust ports, also available in NPT ports
- Single coil spring return function or double coil stay put function
- Pilot exhaust dust caps fitted as standard
- 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

PRODUCT CODE: C 1 5 [OPERATOR] [OPERATOR] P [COIL] [OPTIONS 1] 0 [VOLTAGE] [DESIGNATOR] [OPTIONS 2]

SEE BELOW FOR PRODUCT CODE DETAILS

Any of the below options that are not required enter '0' in relevant box.

Operator

18	Spring return, internal pilot air feed
80	Spring return, external pilot air connection
19	Double solenoid, internal pilot air feed
90	Double solenoid, external pilot air connection

Coil

A	Exia (BASEEFA)
B	Terminal Box
D	Exd
H	Plug & Socket Exia
K	MC30 Plug & Socket
L	MC30 Plug & Socket with LED
N	ExnA
P	Plug & Socket
S	Exia (BASEEFA) Stainless Steel Housing
T	Inline Terminal Box
U	Exia (FM)
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
B	Exia 10mA
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)

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

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

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

COILORIENTATION

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.

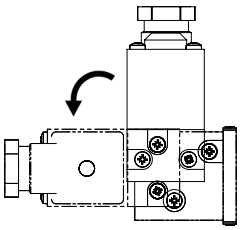


Fig 1

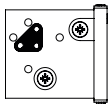


Fig 2

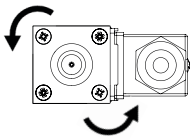
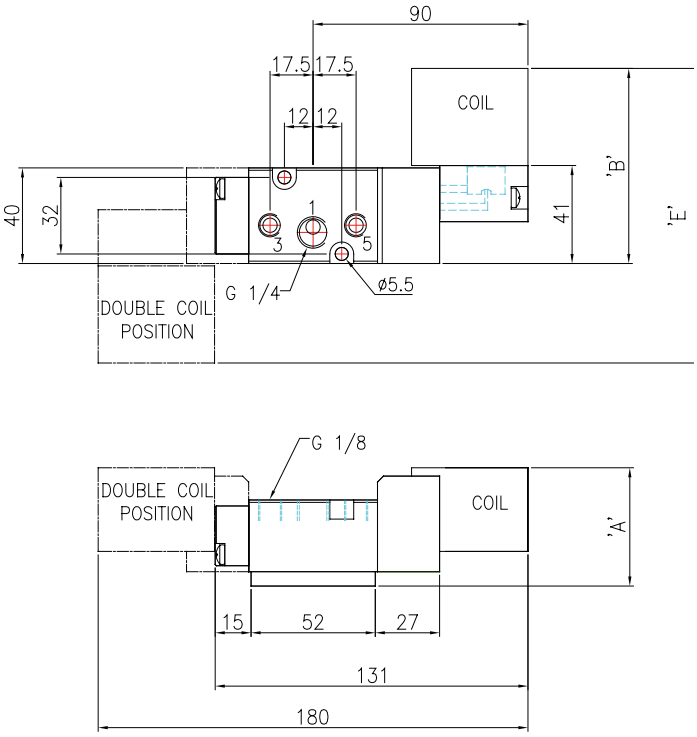


Fig 3



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 (Alternative Seals Available)
Spring	Music Wire
Mounting Screws	Stainless Steel
Change Over Plate	Nylon 66 30% Glass Filled
Gasket	Nitrile

VALVE SPECIFICATIONS

	STANDARD
Inlet Port Connection Size	1/4" BSP
Exhaust Port Connection Size	1/8" BSP
Working Pressure	3 to 10 bar
Cv Factor	0.7
Flow Rate (at 6 bar with 1 bar pressure drop)	675 l/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

DIMENSIONS (MM)

COIL TYPE	A	B	E
Moulded Plug & Socket	50	85	130
Heavy Duty Mazak Plug & Socket	50	85	130
Standard Terminal Box	50	93	146
SS Terminal Box	58	110	180
ExnA Terminal Box	50	93	146
Exd SS Terminal Box	58	110	180
Exm Flying Lead	50	81	122
Exme Terminal Box	50	93	146
Piezo Operator	48	94	148
Exia SS Terminal Box	58	117	194
Exia Std. Terminal Box	50	100	160
Exia Plug & Socket	50	88	136

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					

* Further solenoid options available on request.
* Specifications subject to change without prior notice.