

Type T45 Series, 1/2" Ported, 3/2, 5/2 or 5/3 Pilot Operated Solenoid Valve



DESCRIPTION

Solenoid valve designed for direct mounting onto pneumatic rotary actuators meeting '1/2" NAMUR' standard fixing dimensions.

Hazardous area approved pilot operators (ExnA, Ex e mb, Exd and Exia) are available with various international approvals – ATEX,IECEx, CCCEx, FM/CSA, GOST CU TR (Russia).

Body material available in

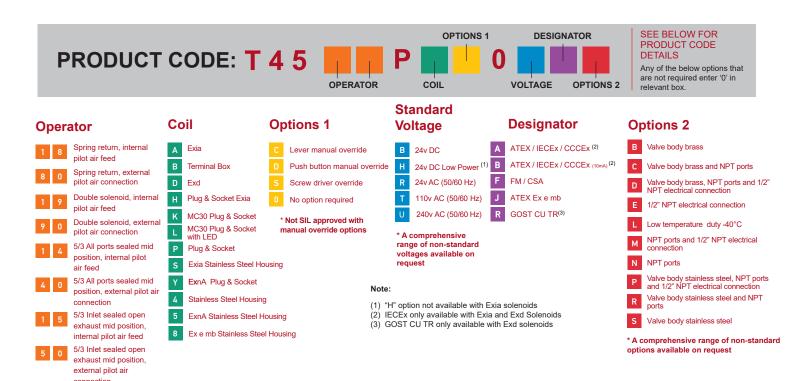
- Aluminium (standard)
- Stainless Steel
- Brass

Seal kit available - VSKT45P

Valve assembly illustrated with an plug & socket coil for reference only

FEATURES

- Interchangeable CNOMO interface operators including various hazardous area options
- Integrated Exhaust to Spring (ETS) feature in 3/2 position
- 1/2" 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
- (Our manual override options are NOT currently covered by SIL Certification)





EXHAUST TO SPRING

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

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

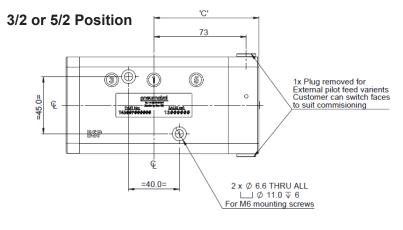
	STANDARD
Port Connection Size	1/2" BSP
Working Pressure Internal Pilot Version	3 to 10 bar
Working Pressure External Pilot Version	3 to 10 bar
Minimum External Pilot Pressure	3 bar
Cv Factor	3.5
Flow Rate (6 bar inlet pressure, 1 bar pressure drop)	3534 l/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

COIL DETAILS

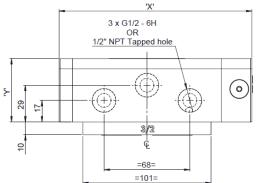
Coil Type	Plug & Socket	Terminal Box	ExnA	Exd	Ex e mb	Exia
Area Class	Safe	Safe	Zone 2	Zones 1 & 2	Zones 1 & 2	Zone 0, 1 & 2
Area Category	N/A	N/A	Ex nA II T4-T6	Exd IIC T3-T6	Ex e mb IIC T4	Exia IIC T6
Ingress Protection	IP65	IP65	IP65	IP66	IP66	IP65
Cable Entry	PG.9	M20 x 1.5	M20 x 1.5 or PG.9	M20 x 1.5	M20 x 1.5	M20 x 1.5
Ambient Temperature	-20 to +80 °C	-20 to +80 °C	-20 to +60 °C	-20 to +80 °C	-20 to +65 °C	-20 to +65 °C
Magnetic Wire Class	Н	Н	Н	Н	Н	Н

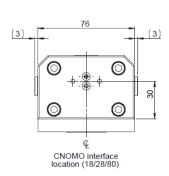
* FURTHER SOLENOID OPTIONS AVAILABLE ON REQUEST

DIMENSIONS (mm)



Part code Character 4 & 5	External pilot ports	Air pilot ports	Xmm	Ymm	Cmm(Max Offset)
18	N	N	152	50	83
28	N	N	152	50	83
80	Y	N	152	50	83
X8	N	Υ	152	50	83



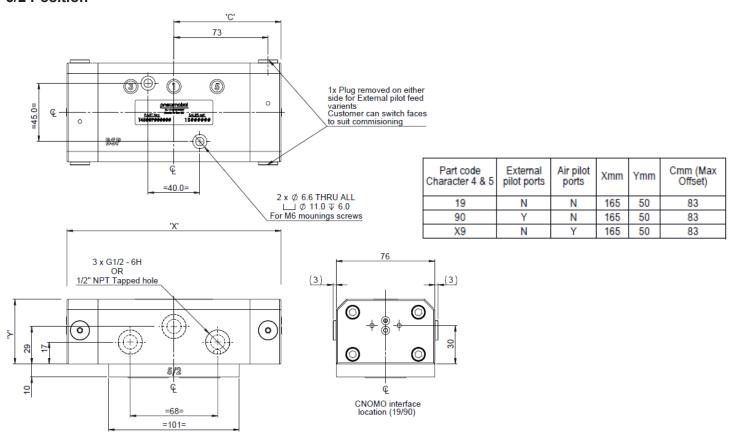




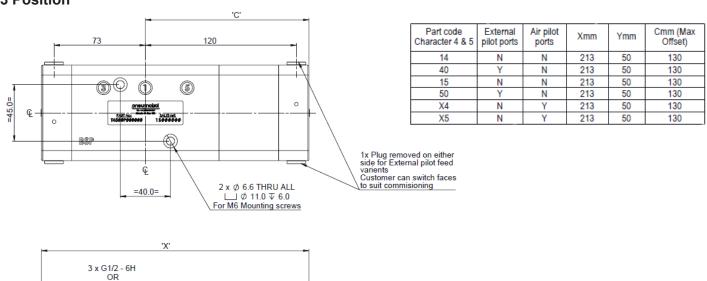


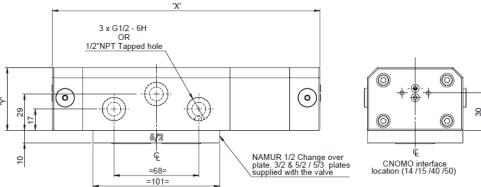
DIMENSIONS (mm)

5/2 Position



5/3 Position





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