# pneumatrol

# NAMUR MOUNTED



# **Reflex 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. Value engineered for singleoperator, safe area applications.

Valve is illustrated with a safe area plug & socket coil.

Body material - Aluminium

#### FEATURES

- Top face air connection
- 1/4" BSP mains air connection and exhaust ports, NPT thread on request
- Screwdriver override as standard
- Integrated Exhaust to Spring (ETS) feature in 3/2 position
- Cv = 1.0
- Built in 3/2 to 5/2 function conversion facility for spring return and double acting actuators respectively
- Speed up to 180 cycles/min.
- Life > 10 millions cycles. We do recommend however that replacement seals are fitted after 5 million cycles has a
  precaution

PRODUCT CODE: R 2 5 1 8 P K S 0

SEE BELOW FOR PRODUCT CODE DETAILS Any of the below options that are not required enter '0' in relevant box.

#### Standard Voltage

B 24v DC UMB5 = 24v DC cURus approval coil size 30x30mm

24v AC (50/60 Hz)

VOLTAGE

110v AC (50/60 Hz) U35D = 120 60Hz cURus approval coil size 22x30mm

U 240v AC (50/60 Hz) U35E = 240 60Hz cURus approval coil size 22x30mm

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

#### Air supply requirements

#### Filtration & Lubrication

The supply air shall be clean, dry and free from water, moisture, foreign parts and debris. It is recommended that a <40µ filter/regulator be installed as close to the valve as possible to ensure proper supply air quality. The air supply can be either lubricated or non-lubricated. In the case of lubricated air being used, the recommended oil types are ISO and UNI FD22 (Energol HPL ~ Spinesso ~ Mobil DTE ~ Telles Oil).

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# **CONVERSION FACILITY**

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.

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

# DIMENSIONS (MM)



\* Minimum height with plug connector rotated through 90 degrees.

### **MATERIAL SPECIFICATIONS**

STANDARD

Body	Black Anodised Aluminium (Dural)
Spool	Hard Anodised Aluminium PTFE Impregnated
Spacers	Glass Filled Acetal
Seals	Nitrile
Spring	Music Wire
Mounting Screws	Stainless Steel
Change Over Plate and End Caps	Nylon 66 30% Glass Filled
Gasket	Nitrile

## **VALVE SPECIFICATIONS**

	STANDARD
Port Connection Size	1/4" BSP, NPT on request
Working Pressure	3 to 10 bar
Cv Factor	1.0
Flow Rate (at 6 bar with 1 bar pressure drop)	1000 l/min
Maximum Ambient Temperature	+80 °C
Minimum Working Temperature	-20 °C

# **COIL SPECIFICATIONS**

Coil Type	MC 30 Plug & Socket
Area Class	Safe
Area Category	N/A
Ingress Protection	IP65
Cable Entry	PG.9
Ambient Temperature	-20 to +80 °C
Magnetic Wire Class	н
Power Consumption (Nominal)	2.0 Watts (DC) 5.5 Watts (DC) for cURus Pull in - 9VA, Holding - 5VA (AC) 8VA (AC) for cURus