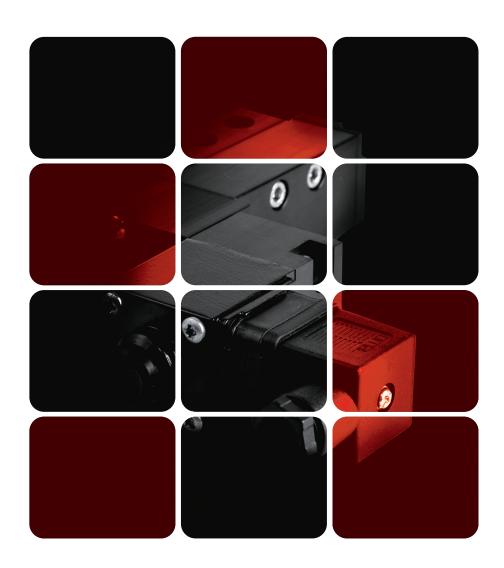
pneumatrol

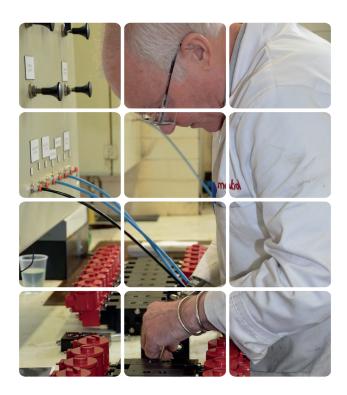


Valves For Process Industry

Engineered Pneumatic Solutions

www.pneumatrol.com

pneumatrol



Pneumatrol Limited (formerly RGS Davis) is a specialist manufacturer accredited to ISO 9001. Operating from its headquarters in Lancashire, Pneumatrol provides engineered pneumatic solutions for use within hazardous and non-hazardous environments.

For over 50 years we have developed the technical and manufacturing expertise together with the market knowledge necessary to meet the demands of the **Process Industry**.

We understand the high expectations of the process industry and our solenoid valves are standard specification within many world class companies. We also design and manufacture piston linear actuators and control systems for most of the major process valve manufacturers and distributors.

General Valve Specifications:

- Body materials: aluminium, brass, stainless steel and surface coating options
- Internal or external pilot
- Complete range of voltages available including low power options
- Wide standard ambient temperature range -20°C + 80°C
- Low temperature option to -40°C
- Momentary and latching manual overrides
- Various coil options with comprehensive range of hazardous area approvals
- Modular design
- Compact size

We are a member of the British Valve and Actuator Association (BVAA).





HAZARDOUS & SAFE AREA SOLENOIDS

Our core product range of hazardous and safe area solenoids conform to CNOMO standards.

Features

- Direct mounting to all valves meeting CNOMO fixing dimensions
- Interchangeable coils, including various hazardous area options
- Pilot exhaust dust caps fitted as standard

Range of Approvals

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).

- Exia IIC T6
- Exd IIC T3 to T6
- Exd IIB +H2 T3 to T6
- Exm T5
- Exme T5
- ExnA T4/T6
- Safe Area

Solenoid Specifications



Coil Type	Exia	Exd	Exm	Exme	ExnA	Terminal Box (IP65)
Ratings						1
DC Voltages	12V - 24V	12V, 24V, 110V, 240V	12V, 24V, 48V, 110V, 240V	12V, 24V, 110V, 240V	12V, 24V, 48V, 110V	12V, 24V, 110V, 240V
Power ratings	0.4W - 0.27W	1.3W - 3W	0.5W - 3W	0.5W - 1.3W - 2.4W	0.5W - 0.2.4W	1.3W - 2.4W
AC Voltages	N/A	12V, 24V, 110V, 220V, 240V, 440V	12V, 24V, 110V, 220V, 240V, 415V	12V, 24V, 110V, 220V, 240V, 275V	12V, 24V, 48V, 110V, 220V, 240V, 440V	12V, 24V, 110V, 220V, 240V, 440V
VA rating	N/A	9.5VA Max	9.0VA Max	9.0VA Max	10VA Max	9.5VA Max
Frequency	N/A	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Diodes	Standard	N/A	Optional	Optional	Optional	Optional
Bridge Rectifier	N/A	Optional	Optional	Optional	Optional	Optional
Construction Types						
Terminal Box	Yes	Yes	No	Yes	Yes	Yes
Plug and Socket	Yes - DIN 43650 Type Form A	No	No	No	Yes - DIN 43650 Type Form A	Yes - DIN 43650 Type Form A
Flying Lead	Yes	No	Yes	No	No	Yes
Inline Connector	Yes	No	No	Yes	No	Yes
CNOMO Interface	Yes	Yes	Yes	Yes	Yes	Yes
Screwdriver override	Available (not with SIL Approved)	Available (not with SIL Approved)				
Terminal Box options	1/2 NPT, M20	1/2 NPT, M20	N/A	1/2 NPT, M20	1/2 NPT, M20	1/2 NPT, M20
Approvals						
IP 65 Rating	IP65 - All variants except SS	N/A	IP65	IP65	IP65 - All variants except SS	IP65 - All variants except SS
IP 66 Rating	Stainless Steel Hsg. only	IP66	N/A	N/A	Stainless Steel Hsg. only	Stainless Steel Hsg. Only
T Classification	Т6	T3, 4, 5, 6	T5	T5	T4 & T6	N/A
SIL Approved	SIL 2 & 3	SIL 2 & 3				

DIRECT ACTING VALVES

- 1/8" and 1/4" ports
- Banjo fitting
- CNOMO interface
- 3/2, N/C or N/O

Product range -

- » CNOMO Interface: direct mounting to all valves meeting CNOMO fixing dimensions
- » E13A-0 Series: remote mounting
- » E13A-A/B Series: direct banjo bolt mounting
- » P23BU Series: high flow, low power



CNOMO Interface

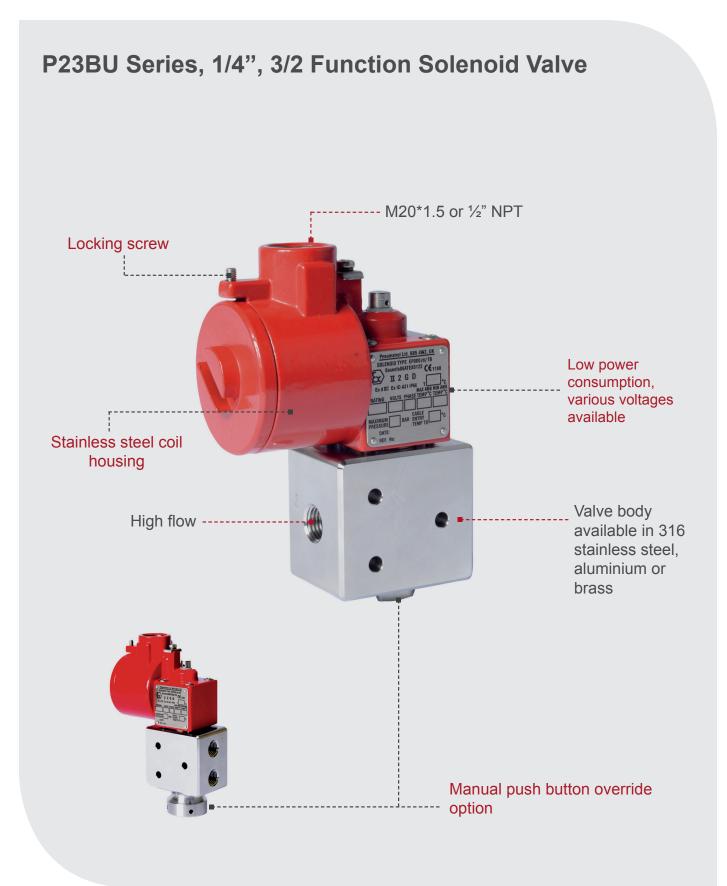
E13A-0 Series





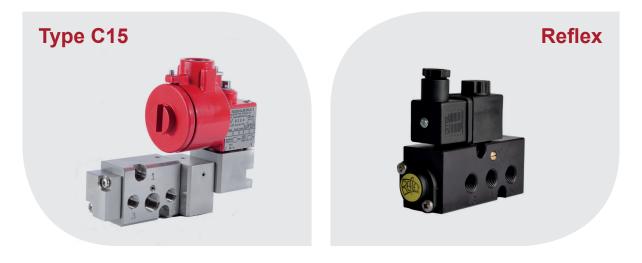
P23BU Series

DIRECT ACTING VALVES



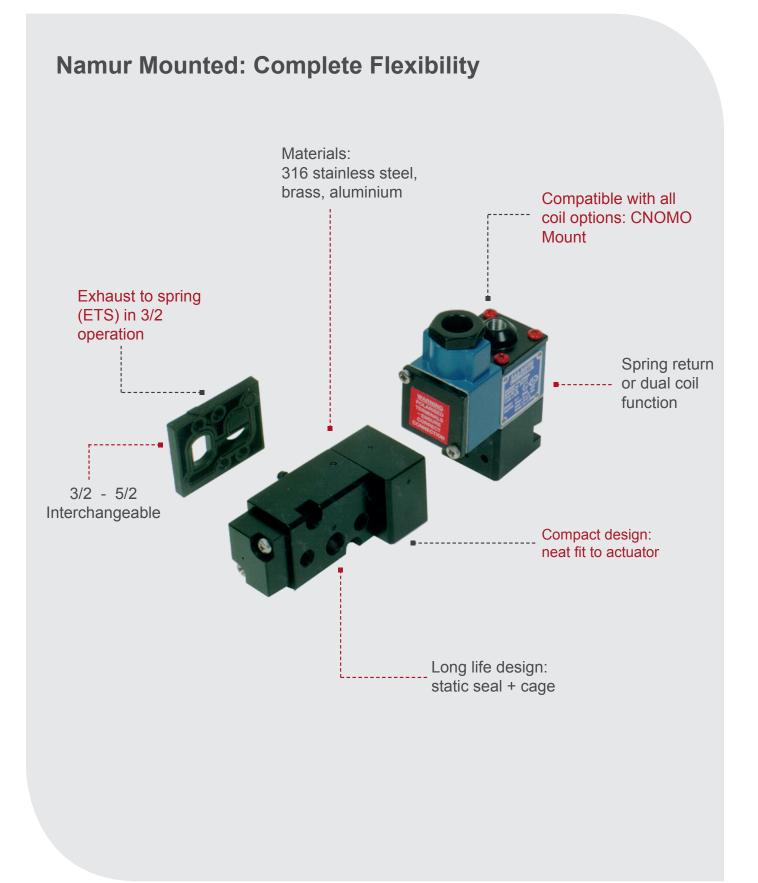
NAMUR MOUNTED VALVES

- Designed for direct mounting onto 1/4 turn pneumatically operated valve actuators, meeting the Namur standards.
- 1/8" and 1/4" ports
- 3/2 or 5/2 functions from the same valve, using interface plates
- Exhaust to spring (ETS) feature in the 3/2 versions to protect actuator spring from corrosion
- High flow version available on Type T25
- Integrated speed control option on Type T23



Type J15Type T23Type T25, 3/2 or 5/2Type T25, 5/3Type T25, 3/2 or 5/2Type T25, 5/3

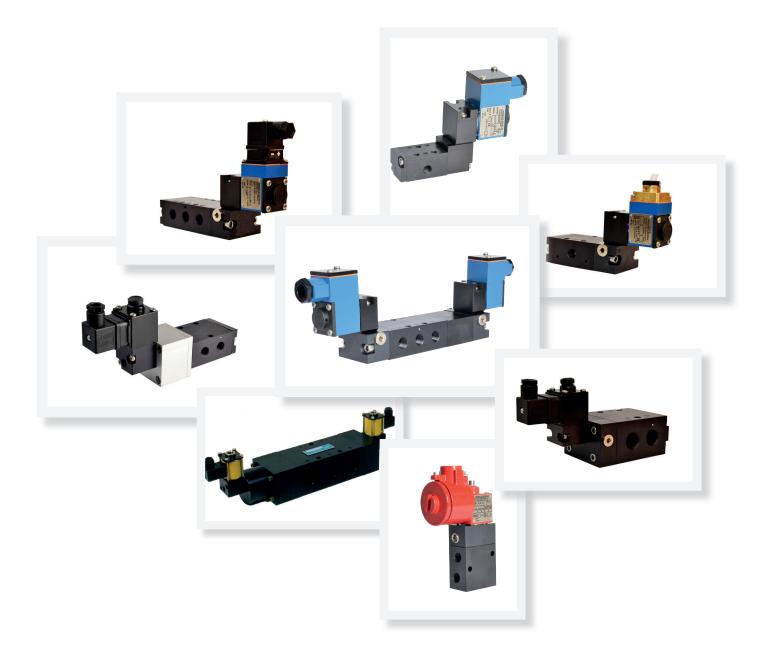
NAMUR MOUNTED VALVES



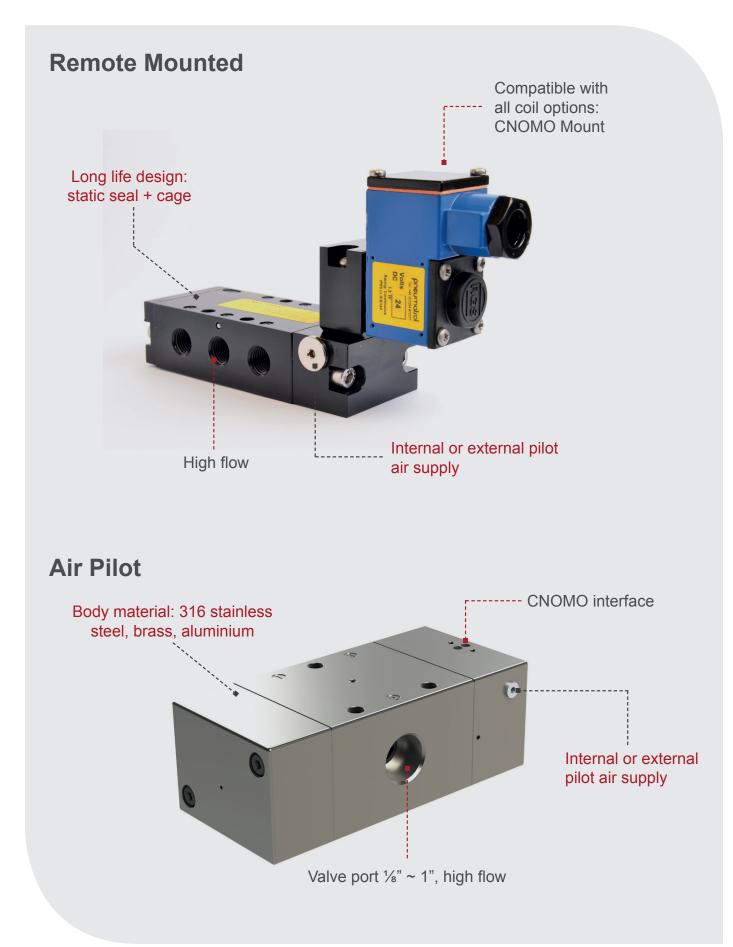
REMOTE MOUNTED VALVES

Pneumatrol has designed valves for high flow applications and valves for operation across a wide temperature range. Valve options include:

- 1/8" to 1" ports
- Heavy duty valves up to 1 1/2"
- 3/2, 5/2, and 5/3 functions
- Body materials available in aluminium, brass, 316 stainless steel
- Manual override options: screw driver, lever and push button
- Internal or external air pilot
- Comprehensive range of coil options and voltages available (including low power options)



REMOTE MOUNTED VALVES

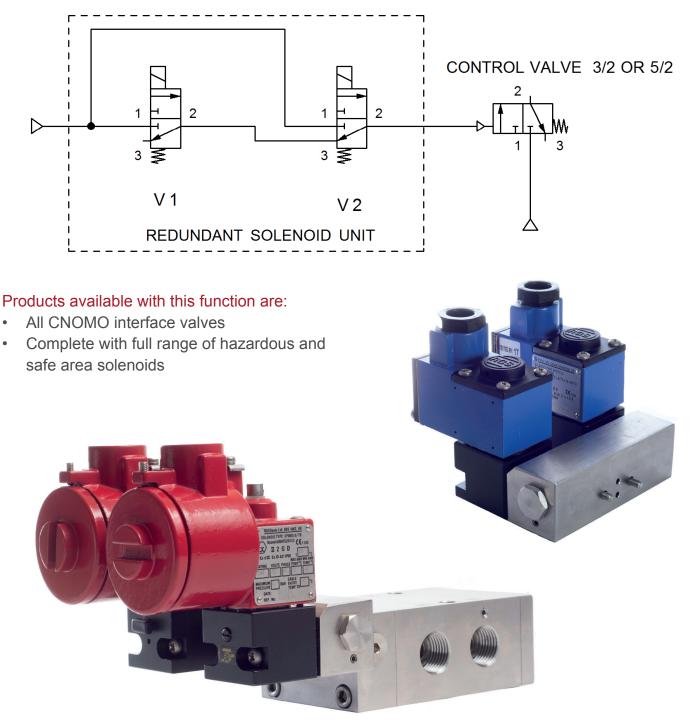


REDUNDANT SOLENOID SYSTEM

Pneumatrol has developed a valve system that is operated with two independent solenoids. Redundant solenoid valves are used for high availability applications and functional safety.

As long as one of the two solenoids are energised the main control valve will be in its operating position, which in turn keeps the actuator/process valve in its operating position. Both coils must be de-energized in order to return the actuator/process valve to its non-operating position.

The Redundant solenoid system can be fitted to any of Pneumatrol's standard 3/2 or 5/2 control valves which utilise the CNOMO solenoid interface.



SAFETY RESET FUNCTION

Pneumatrol offers solenoid valves with safety reset function to suit a wide range of applications within the Process industry.

Upon energising the solenoid, the valve will not operate until the Safety Reset Button is pressed.



If the solenoid is de-energised or if there is a loss of air pressure or electrical supply, the valve will close. The valve will only re-open when power and air pressure are reinstated and when the Safety Reset Button is pressed.

Products available with this function are:

- E23 series
- E25 series
- E43 series
- E45 series

MANUAL RESET FUNCTION

Pneumatrol offers solenoid valves with manual reset function to suit a wide range of applications within the Process industry.

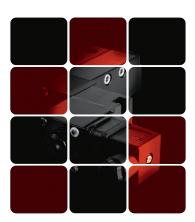
Upon de-energising the solenoid or if there is a loss of air pressure or electrical supply, the valve will not close until the Manual Reset Button is pressed. The valve will only re-open when power



and air pressure are reinstated.

Products available with this function are:

- •C15 series
- •E23 series
- •E25 series
- •E43 series
- •E45 series



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