PneuLINK™

VALVE CONTROL MONITOR

ATEX (FLAMEPROOF)

MONOSTABLE

PneuLINK™ linear system is manufactured from 316 stainless steel and brass materials. The ergonomic design ensures an easy set up, trouble free installation and maintenance free operation. The **PneuLINK™** dynamic mechanism is both self-compensating and self-aligning, with minimal backlash and hysteresis, for high repeatability and total reliability.

The **V**alve **C**ontrol **M**onitor (**VCM**) acts as an integral junction box, which facilitates a single multi-core cable for the discrete inputs (DI), and the low power solenoid discrete output (DO), reducing site cabling and installation costs. **PneuLINK™** linear **V**alve **C**ontrol **M**onitor system offers total installation flexibility and can be fitted in various pre-selected positions (refer page 3 & 4).

Ex II 2GD Ex d IIB + H2 T6..T4 IP6X

FEATURES AND BENEFITS

- For use within potentially explosive atmospheres.
  Ex II 2G Ex d IIB + H2 T6 to T4
  Ex tb IIIC T* Db IP6X
  -30°C to + 85°C (T4/ T130°C) , -30°C to +60°C (T6/ T80°C)
- IP66/67 low copper content aluminium (powdered coated) enclosure ensures both strength and corrosion resistance for installation in harsh environments.
- Beacon shaped visual indication provides 360° visual feedback of valve OPEN (Black) or CLOSED (Yellow) positions.
- Black / Yellow colours, as a visual indicator, offers high visibility integrity, and is colour Impaired friendly.
- Touch set cams are hand adjustable, spring loaded and self-locking, providing quick calibration of position switches and sensors.
- SPDT mechanical switches or proximity switches.
- Switch centralization plate allows for the accurate setting of switches, improved repeatability, and minimises hysteresis.
- NAMUR VDI/VDE standard mounting arrangement.
- Quick release design of terminal strip bracket allows removal of the terminal strip, which is pre-wired and numbered, to aid field wiring at commissioning and installation stage.
- M20 conduit entries fitted with ATEX certified, IP rated plugs as standard to avoid ingress during site storage and transportation prior to installation.
- Extra conduit entry for easy field wiring as standard.
- SOV with red pneumatic indicator as standard.
- Solenoid coil integrated within the VCM housing, and is available with a choice of coil voltages.
- Choice of aluminium or 316 stainless steel solenoid valves, in 3 or 5 way configurations.
- Optional Cv ratings of 1.1 or 3.5
- Exhaust port flow regulators fitted as standard.

For More information scan the QR Code on the left or visit http://www.pneuton.co.uk/

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ENGINEERING VALVE AUTOMATION COMPLIANCE

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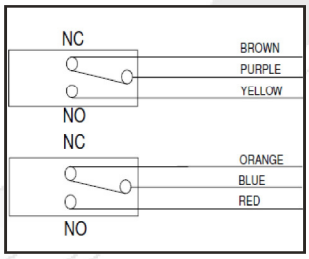
ATEX (FLAMEPROOF) TECHNICAL SPECIFICATION

The **V**alve **C**ontrol **M**onitor contains two switches to indicate the fully open and closed positions of the valve— refer below options

STANDARD V3 Mechanical Switches SPDT

Single Pole Double Throw—Form C

Resistive Loads	Inductive Loads
15A @ 250VAC	10A @ 250VAC
6A @ 24VDC	6A @ 24VDC
0.5A @ 125VDC	0.5A @ 125VDC
0.25A @ 250VDC	0.25A @ 250VDC



Note: Lamp & Motor loads refer **Dr Pneuton** for guidance!

OPTION 1 Magnum XT–90 Switches SPDT

Magnum XT-90 hermetically sealed proximity switch

Single Pole Double Throw—Form C

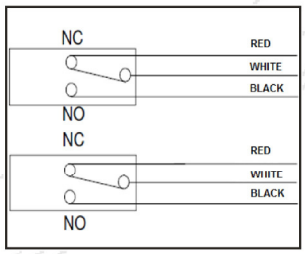
Tungsten Contacts

Resistive Loads

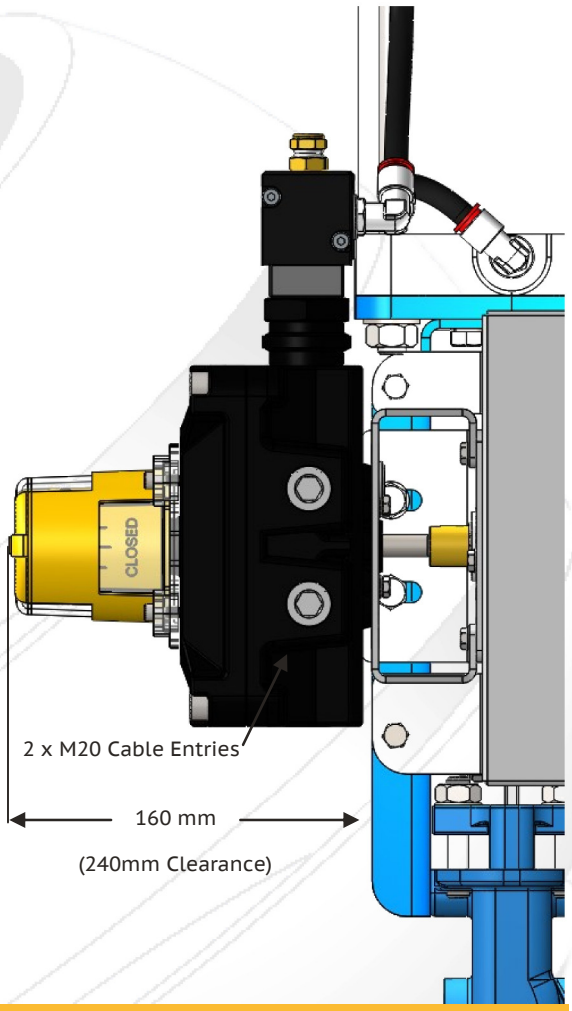
1.5A @ 250VAC

3.0A @ 120VAC

2.0A @ 24VDC



Note: Inductive and lamp loads refer **Dr Pneuton** for guidance!



OPTIONS Switches & Transmitters

V3 SPDT mechanical switches (4 /5*/6*-off) (* High cover required)

DPDT switches (2 /3*/4*-off) (* High cover required)

Inductive proximity sensors (2 or 4-off)

Resistive position transmitters (RS) —1KΩ (standard), optional 5KΩ or 10KΩ

Current position transmitters (CS), 2 wire loop powered, 4-20mA @ 18 to 24V DC

Fieldbus connectivity - AS-I, DeviceNet, Modbus, Profibus & Foundation Fieldbus

Conduit entry options: M25 x 1.5, 1/2" NPT or 3/4" NPT

Refer **Dr Pneuton** for guidance!

SOV Characteristics

Pneumatic Porting : G1/4" (standard) or G1/2"

Operating Pressure : 3.1—8.3 bar (g)

Air Quality : ISO 8573-1 Class 5

Flow Rate : 1100 Nl/min (standard) or 3500 Nl/min

Coil Class Insulation : H

Electrical Safety : IEC335

Duty Rating : 100%

Standard Voltages	Inrush ~ (VA)	Nominal ~ (VA)	Watts
24V DC (±10%)			0.7
110VAC / 50Hz (±10%)	-	4.0	0.7
220VAC / 50Hz (±10%)	-	4.0	0.7

Note : Other voltages and 60Hz are available on request

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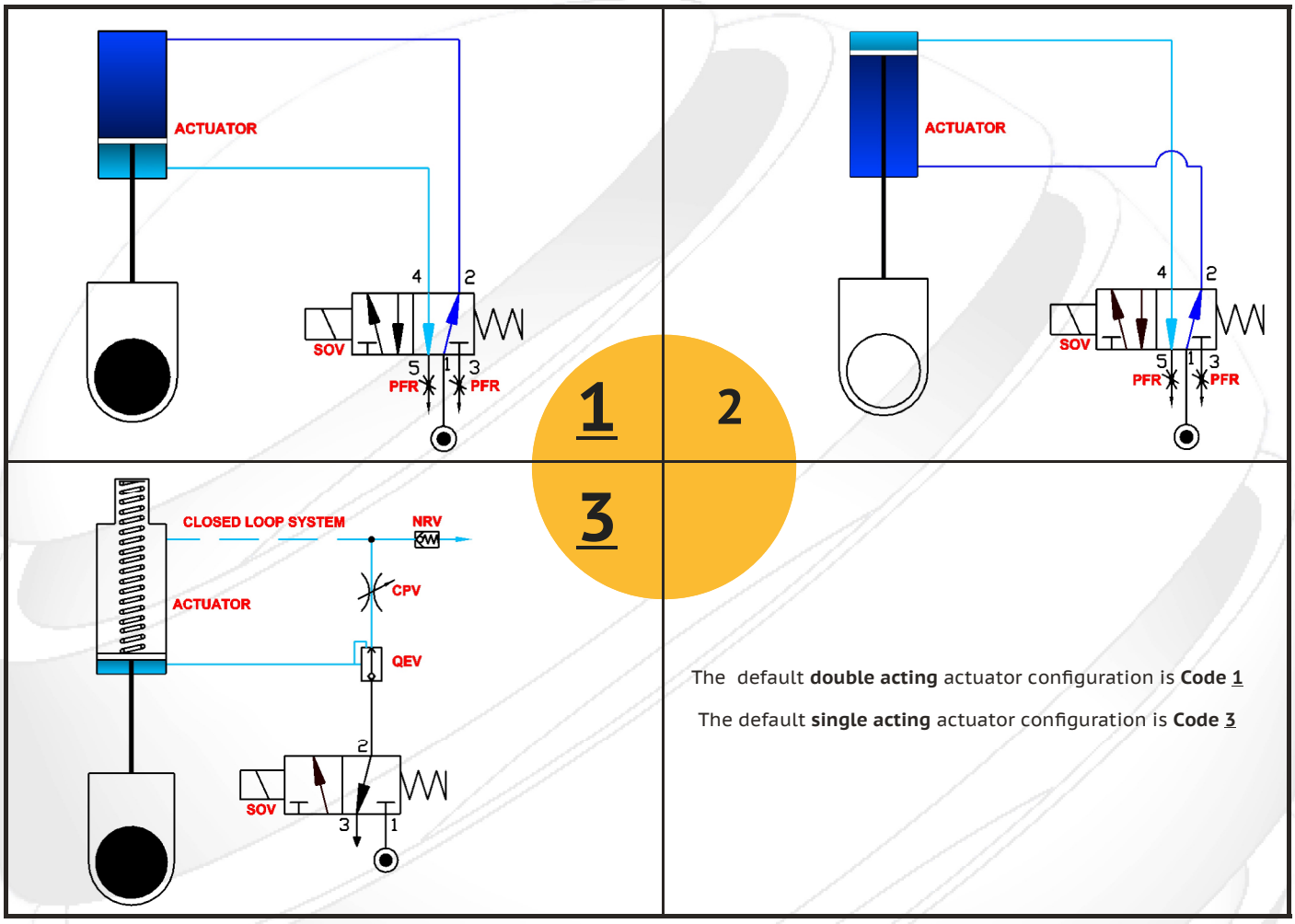
LOGIC SELECTOR



The default **double acting** actuator configuration is **Code 1**

The default **single acting** actuator configuration is **Code 3**

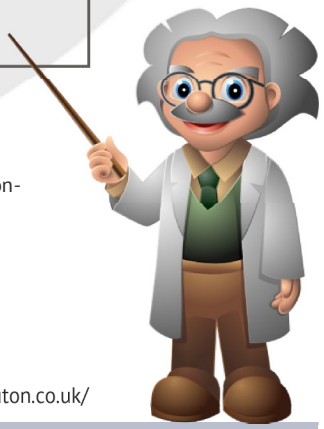
Note: Typical standard logic applications illustrated, refer **Dr Pneuton** for any alterative requirements!

Option	Loss of air	Loss of power
1	Fail Last *	Fail Close with Motive Power
2	Fail Last *	Fail Open with Motive Power
3	Fail Close or Open Depending on Spring Configuration, with closed loop breather system†	Fail Close or Open Depending on Spring Configuration

* Valves in the fully open / closed position , with actuator vertically installed, may drift in the absence of motive power!

† Select the closed loop breather system for arduous environments or potentially explosive atmospheres to refresh the non-pressurised side of the actuators piston on the spring strokes negative displacement, to prevent ingress.

Refer **Dr Pneuton** for guidance !



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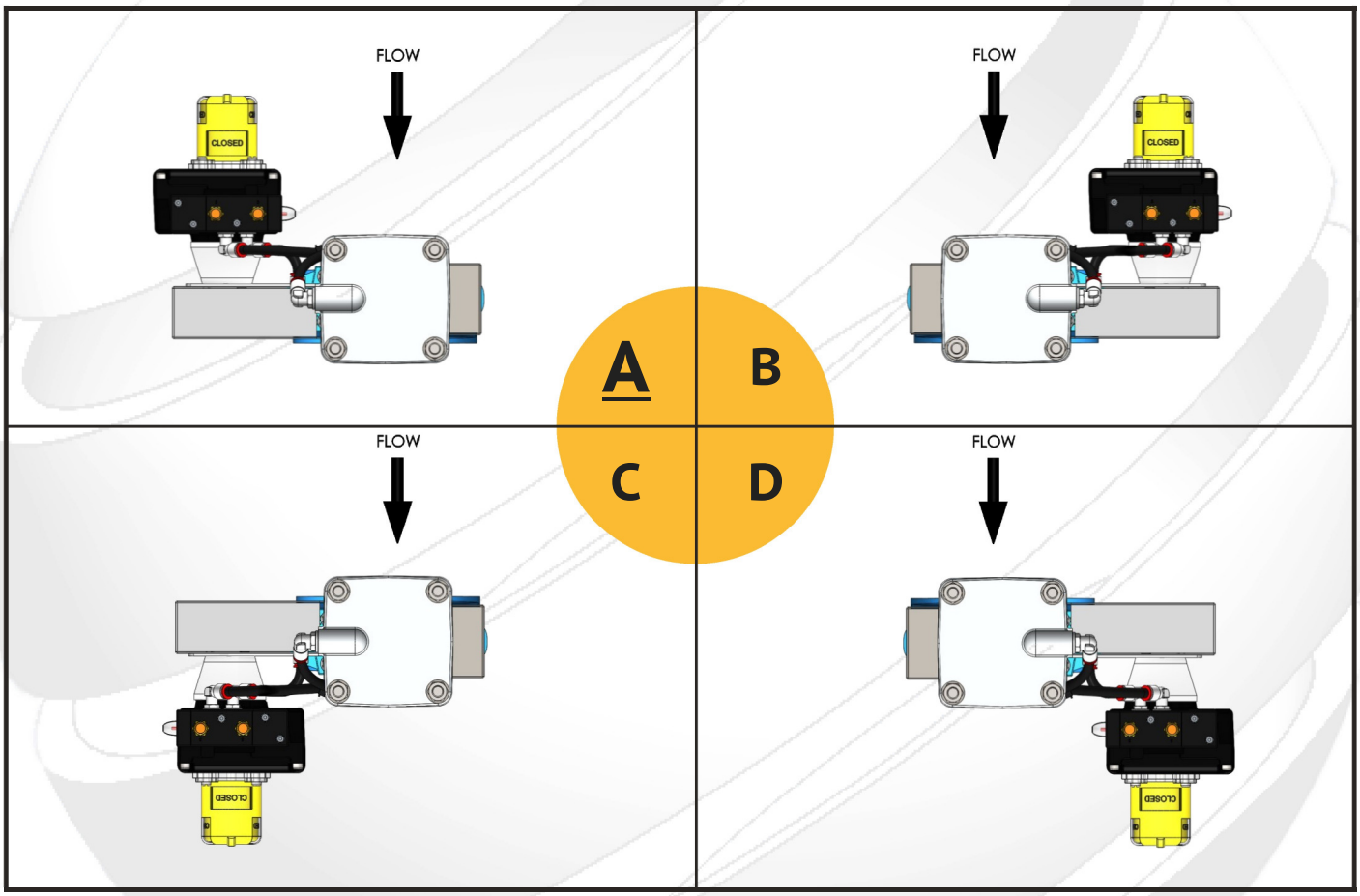
ATEX (FLAMEPROOF) CONFIGURATOR

The default **VCM** configuration is **Code A**.

It is important that the preferred configuration is defined at point of order.

Refer to optional configurations illustrated below.



Images shown from actuator end view

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ATEX (FLAMEPROOF) **Notes**

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