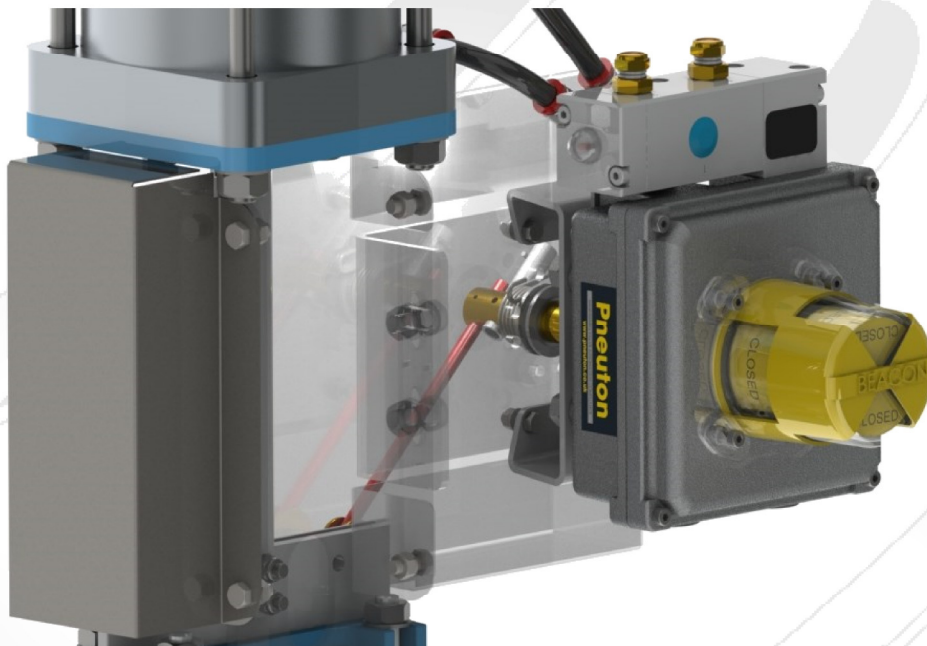


ATEX (INTRINSICALLY SAFE)

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 Valve Control Monitor (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 Valve Control Monitor system offers total installation flexibility and can be fitted in various pre-selected positions (refer page 3 & 4).



Ex II 1GD Ex ia IIC T6..T4 IP6X

FEATURES AND BENEFITS

- For use within potentially explosive atmospheres.
Ex II 1G Ex ia IIC T6 to T4 Ga
Ex tb IIIC T135°C Da IP6X
Temperature rating: $-20^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
- IP66/67 316 stainless steel 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.
- NAMUR inductive proximity switches or SPDT REED 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.
- 316 stainless steel solenoid valve, in 3 or 5 way configurations.
- Optional Cv ratings of 1.1 or 3.5
- Exhaust port flow regulators fitted as standard.



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TECHNICAL SPECIFICATION

The Valve Control Monitor contains two switches to indicate the fully open and closed positions of the valve— refer below options

STANDARD

P&F NJ2-V3-N Inductive Sensors

Solid state NAMUR inductive proximity sensor

Switching element : NAMUR normally closed

Nominal voltage : 8V DC

Output polarity : NAMUR

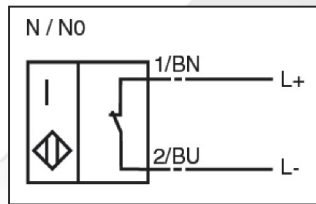
Switching frequency : 0...1000Hz

Electrical Parameters : $C_i = 40\text{nF}$ / $L_i = 50\mu\text{H}$

Current consumptions:

Target present : $\leq 1\text{mA}$

Target absent : $\geq 3\text{mA}$



OPTION 1

Magnum XT-90 Switches SPDT

Magnum XT-90 hermetically sealed proximity switch

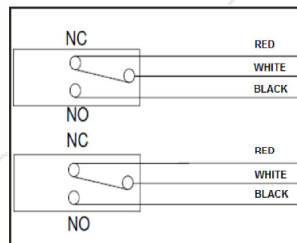
Single Pole Double Throw—Form C

Rhodium Contacts

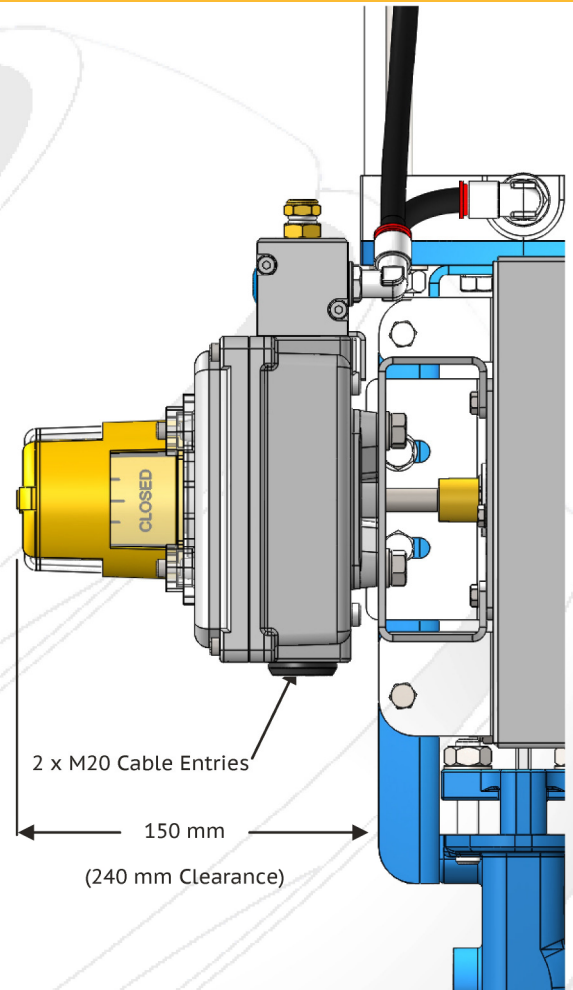
Resistive Loads

0.2A @ 120VAC

1.0A @ 24VDC



Refer **Dr Pneuton** for guidance!



OPTIONS

Switches & Transmitters

P&F cylindrical inductive proximity sensors—types NC.... & NJ....

P&F SN sensors—type NJ....

P&F slot-type indicators—types SJ.... & SC....

Resistive position transmitters (RS)

Current position transmitters (CS), 2 wire loop powered, 4-20mA DC

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

Note: Consult the ATEX certificate for guidance on area classifications and maximum permitted ambient, when different devices are fitted!

Refer **Dr Pneuton** for guidance!



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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

Duty Rating : 100%

Coil Resistance : 390Ω @ 20°C

Safety Parameters : $U_i = 31\text{V}$ / $I_i = 0.67\text{A}$ / $P_i = 2.98\text{W}$

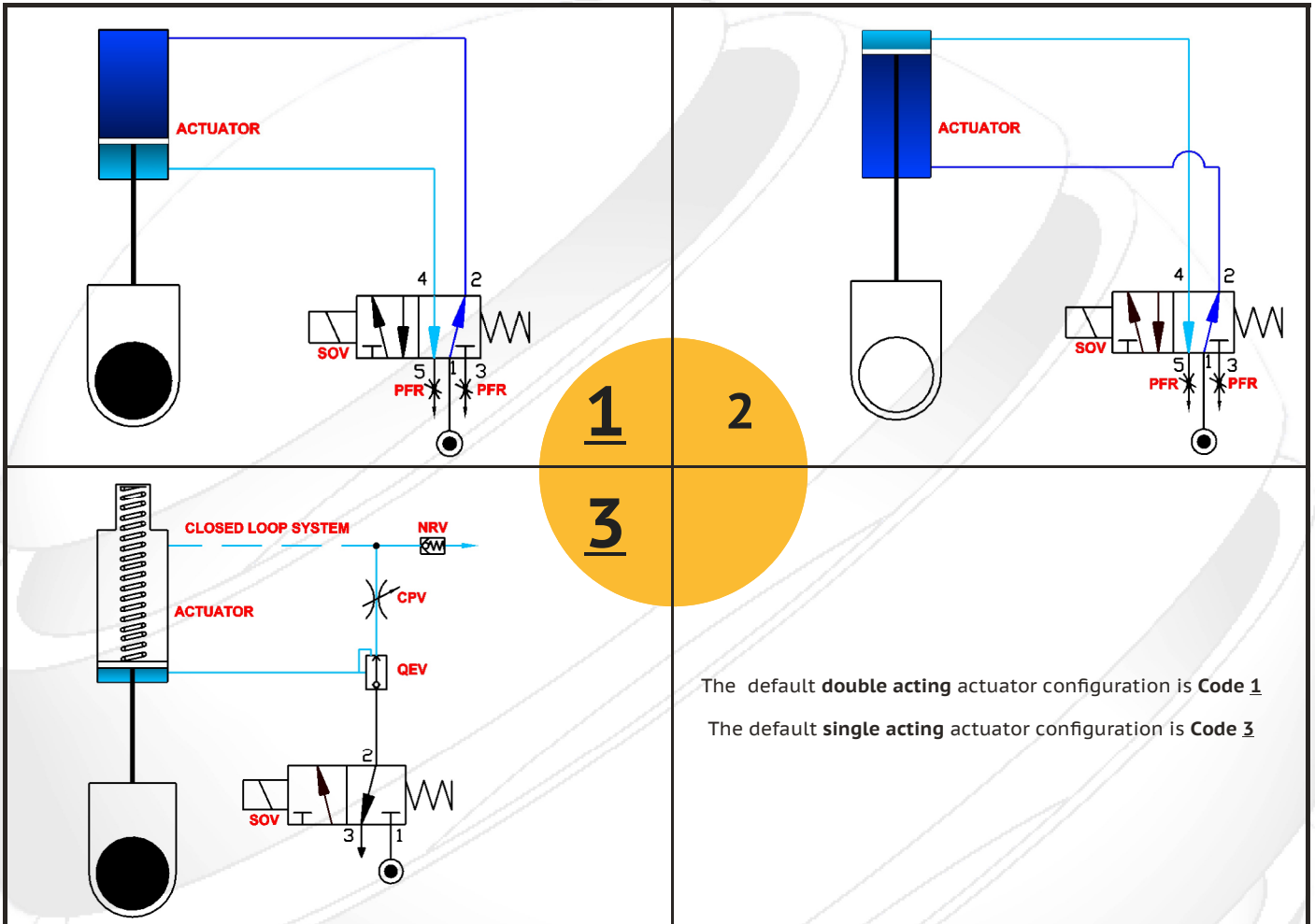
$C_i = 0\mu\text{F}$ & $L_i = 0\text{mH}$

Current Consumption : 33mA @ 12V DC (0.4W)

with approved barrier

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LOGIC SELECTOR



Note: Typical standard logic applications illustrated, refer **Dr Pneuton** for any alternative 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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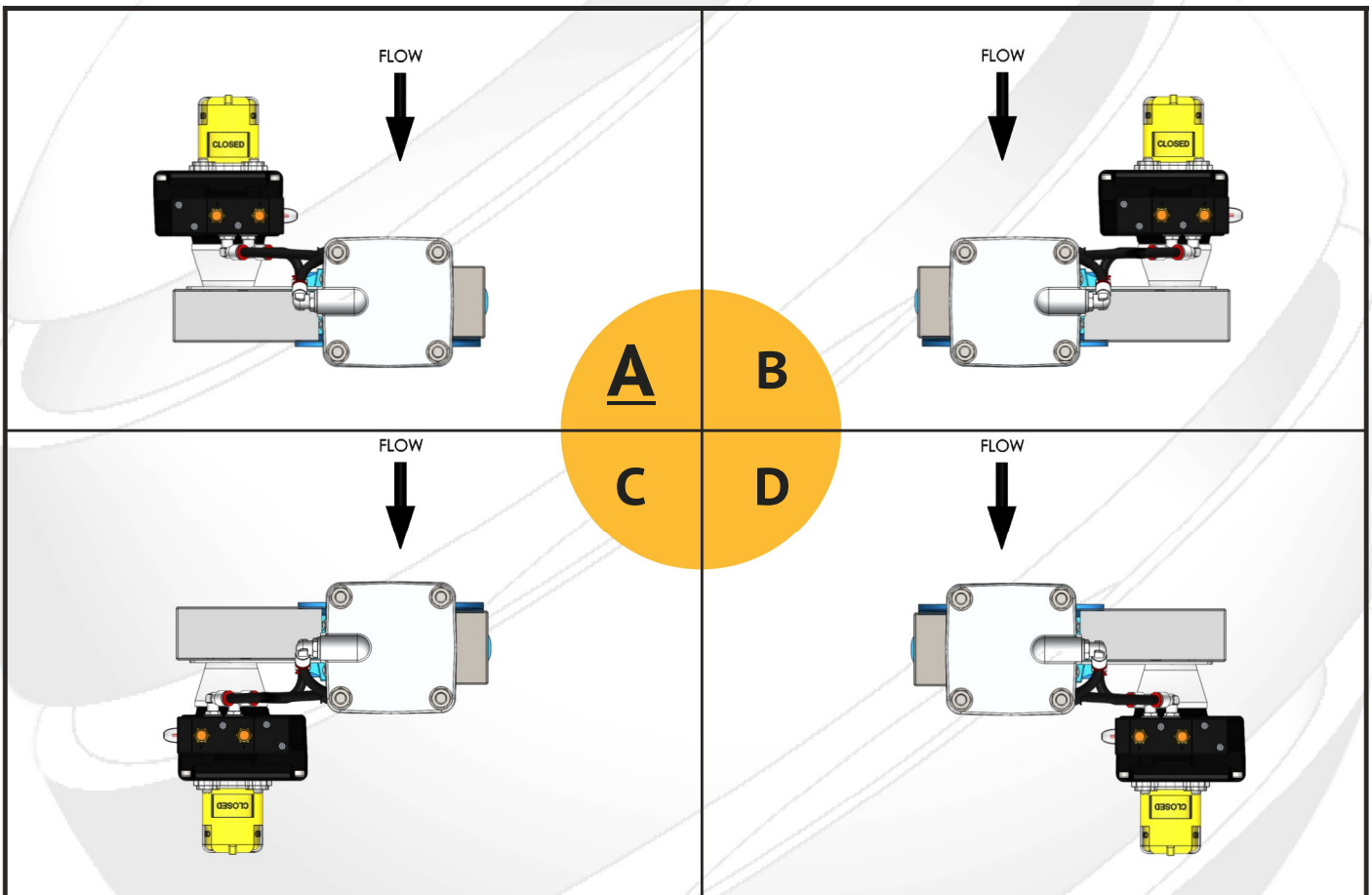
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CONFIGURATOR

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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Pneuton

ENGINEERING VALVE AUTOMATION COMPLIANCE

PneuLINK™

VALVE CONTROL MONITOR

ATEX (INTRINSICALLY SAFE)

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