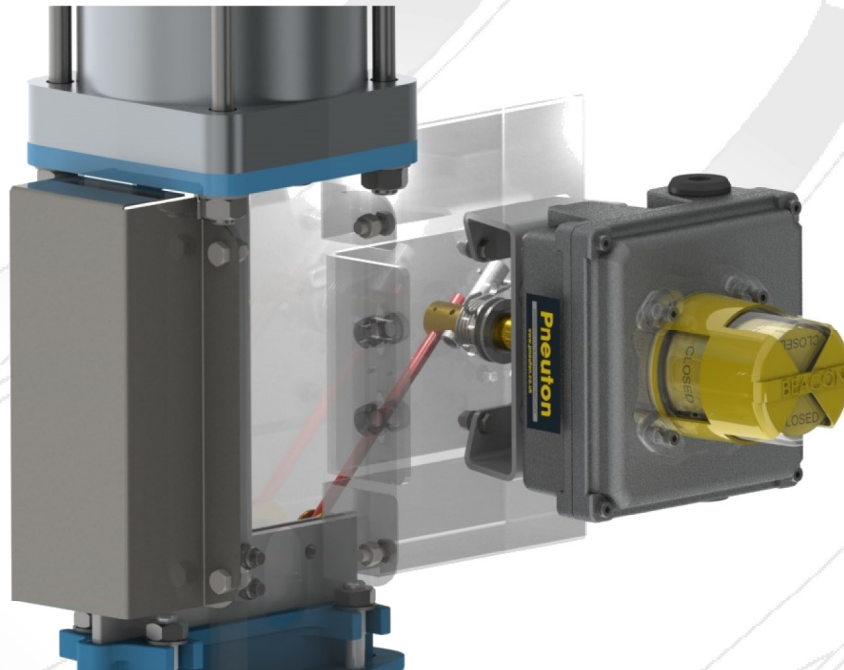


ATEX (INTRINSICALLY SAFE)

INTRODUCTION

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 Position Monitor (VPM) acts as an integral junction box, which facilitates a single multi-core cable for the discrete inputs (DI), reducing site cabling and installation costs. PneuLINK™ linear Valve Position Monitor system offers total installation flexibility and can be fitted in various pre-selected positions (refer page 3).



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
- 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 and terminal strip points for easy field wiring and mounting of accessories as standard.
- NAMUR VDI/VDE standard mounting arrangement.
- Switch centralization plate allows for the accurate setting of switches, improved repeatability, and minimises hysteresis.



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ATEX (INTRINSICALLY SAFE)

TECHNICAL SPECIFICATION

The Valve Position 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

Solid state NAMUR inductive proximity sensor

Switching element : NAMUR normally closed

Nominal voltage : 8V DC

Output polarity : NAMUR

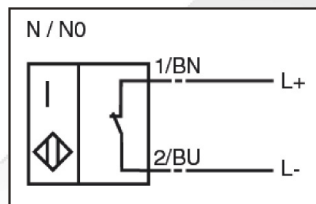
Switching frequency : 0...1000Hz

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

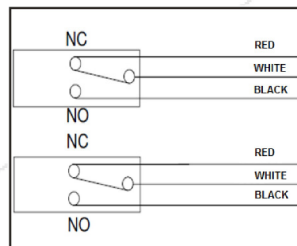
Single Pole Double Throw – Form C

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....

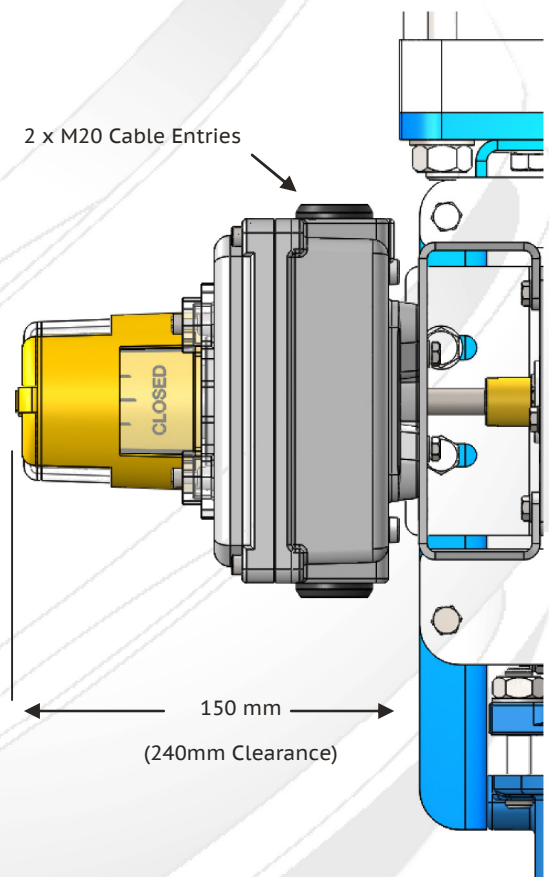
Resistive position transmitters (RS)

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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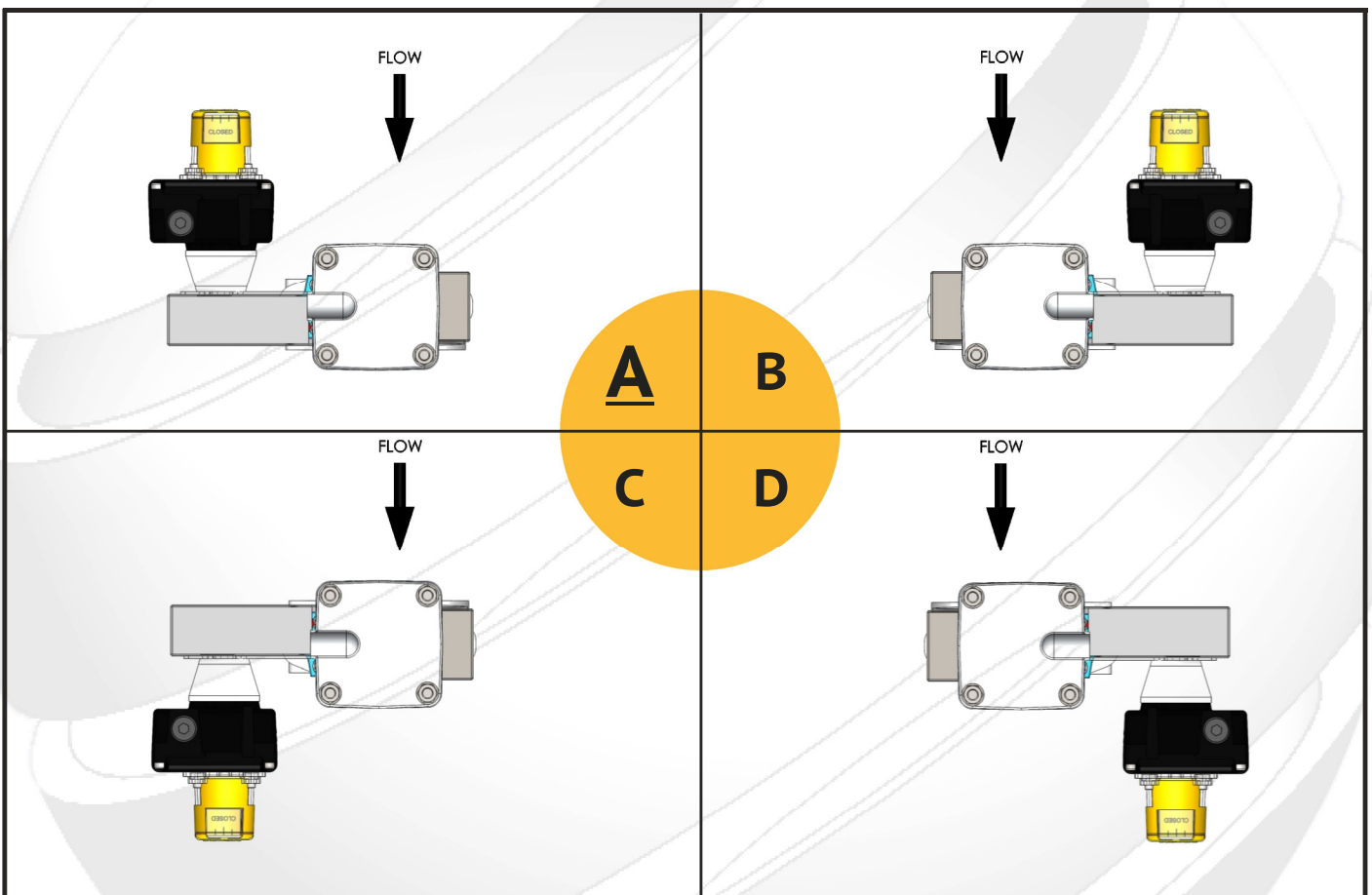
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CONFIGURATOR

The default VPM 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 POSITION MONITOR

ATEX (INTRINSICALLY SAFE)

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