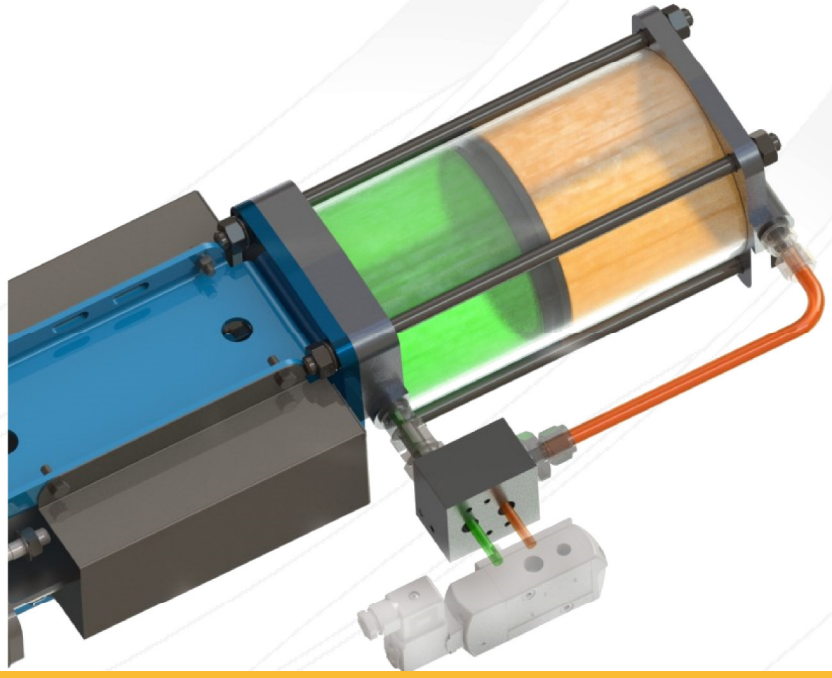
PneuNAMUR™

REMOTE NAMUR BLOCK

THE PNEUTON™ PRINCIPLE

INTRODUCTION

PneuNAMUR™ is a remote mountable NAMUR Interface Block that can be configured to install 3/2, 5/2and 5/3 function NAMUR solenoid valves for use in Double Acting or Spring Return actuation applications. As standard, **PneuNAMUR™** is manufactured from aluminium and finished in black hard anodise for increased environmental protection. **PneuNAMUR™** provides a cost effective and compact solution to allow NAMUR solenoid valves to be installed on Non-NAMUR actuation products.



THE PNEUTON™ PRINCIPLE

- Manufactured from high quality Aerospace grade aluminium as standard.
- Temperature rating: -20°C to +80°C as standard.
- High and Low temperature options available.
- Hard anodise surface protection for arduous environments.
- Configurable for 3/2, 5/2 and 5/3 actuation functions for spring return or double acting applications.
- Facilitates closed loop breather system on spring return actuators.
- Provides future proof logic control flexibility and redundancy.
- Large unrestricted flow paths provide maximum Kv value.

FEATURES AND BENEFITS

- All tapped holes are Alocrom treated to ensure electrical continuity.
- Can be used in both linear and rotary actuator applications on non-NAMUR actuators.
- Port mounting or panel mounting option as standard.
- NAMUR VDI/VDE 3845 standard mounting arrangement.
- Provided with independent Earth Bonding point as standard.
- Compatible in both ATEX and Non-ATEX applications.
- NAMUR 1 and NAMUR 2 option available as standard.
- Available in alternative materials such as 316 stainless steel and brass.
- Can be supplied as a retrofit kit for existing actuators complete with the appropriate solenoid valve, pipework and fittings.

We reserve the right to amend the specification without prior notification

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

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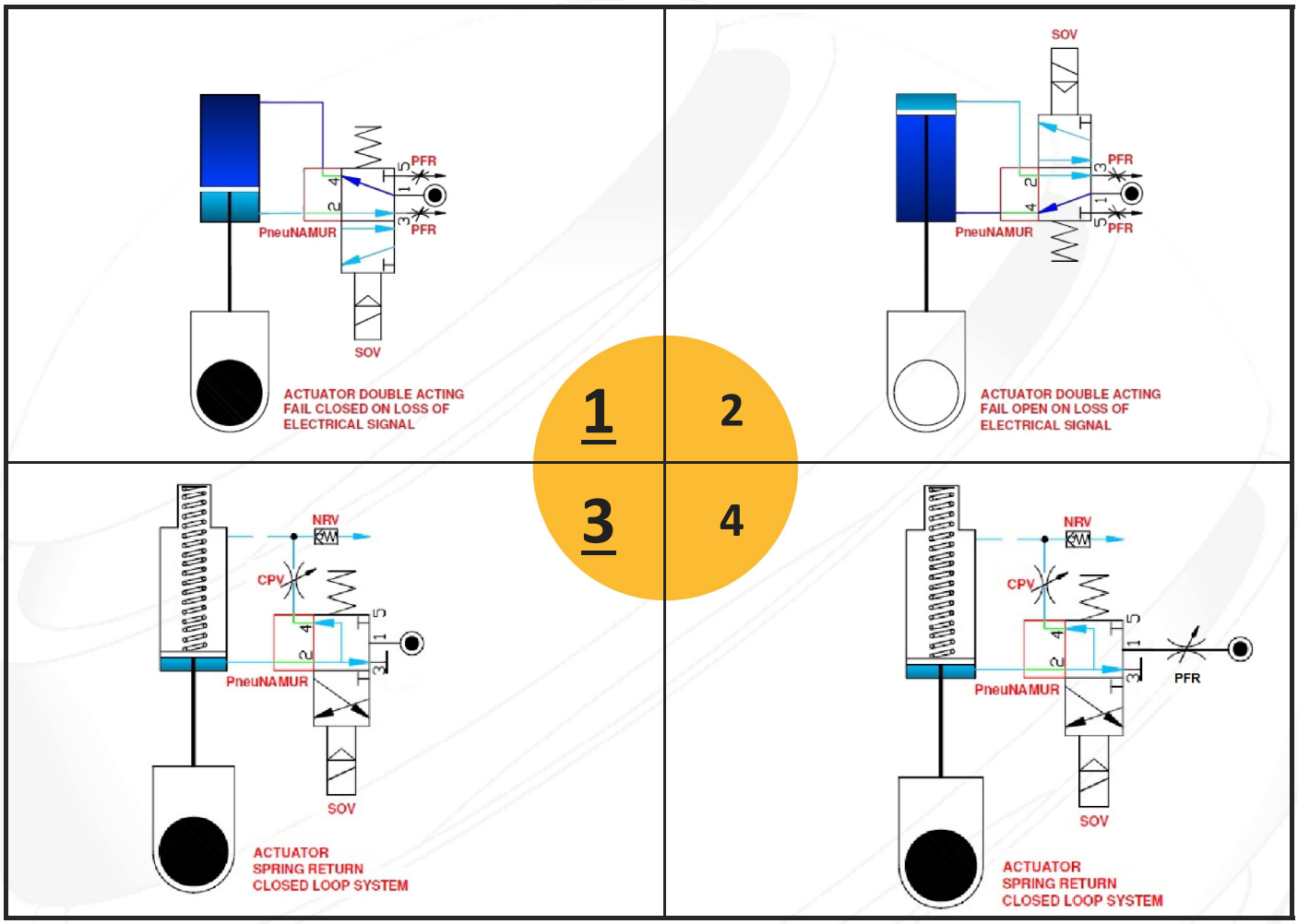
CONFIGURATOR



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

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

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

Option	Loss of air	Loss of power
1	Fail Last *	Fail Close with Motive Power
2	Fail Last *	Fail Open with Motive Power
3† 4††	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!

† 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.

† ATEX version.

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ASCO 551 SERIES NAMUR

TECHNICAL DATA	ASCO 551 High Flow NAMUR Valve. ASCO/JOUCOMATIC solenoid valves satisfy all relevant EC Directives. The mono-stable spool valves, series 551, have TÛV certified IEC 61508 Functional Safety data and can be used up to SIL 4/AK7.
Function:	3/2, 5/2 & 5/3 solenoid and air operated valves.
Manual override:	Suffix: MS = Screw type manual operator, MO = Push type manual operator
Design :	Pilot operated spool valve with combined pneumatic and spring return (DP = 2—10 bar)
Mounting:	For direct mounting to NAMUR interface in any position
Material specifications :	Body : Aluminium body, black anodised End Covers: Glass filled Polyamide Internal Parts : Zamak, stainless steel, acetyl (POM) , aluminium Sealing materials: NBR + PUR Core and core tube: Stainless steel Shading coil : Copper
Media :	Air, inert gas, filtered (50µm), without condensate, dew point: -20°C (ISO 8573-1 Class 5)
Flow (Qv @ 6 bar)	1/4 = 700 l/min (ANR)
Ambient Temp :	-25°C to +60° C

MONO-STABLE

TECHNICAL DATA	Safety	Fig.	Connection	Voltage	Power Level@20°C
SCG551A001MS	IEC355 Safe area EN60730 IP65	1	EN 175301-803 Form B industrial standard Plug & socket, cable size Ø 4.5-7 mm	24 VDC 115 VAC / 50 230 VAC / 50	3.0W 2.5 W 2.5 W
SGG551A001MS	Ex II 3D Ex t IIIC T115°C Dc IP65X Low level ATEX Cat 3 dust	1	EN 175301-803 Form B industrial standard Plug & socket, cable size Ø 4.5-7 mm	24 VDC 115 VAC / 50 230 VAC / 50	3.0 W 2.5 W 2.5 W
NFETG551B301MO	Ex II 2G Ex db IIC T6 Gb Ex tb IIIC Db IP66/67 Flameproof enclosure	2	M20 x 1.5 conduit entry	24 VDC 115 VAC / 50 230 VAC / 50	1.8 W 1.9 W (~) 1.9 W (~)
LISCG551B201	II 1G Ex ia IIC T6 Ga, II 2D Ex ib IIIC Db IP67 Intrinsically safe	3	ISO 4400 / EN 175301-803, Form A Plug & socket, cable size Ø 6-8 mm **Safety Parameters:** **U** 30VDC, **I** 300mA, **P** 1.6W, **L** 0H, **C** 0µF	12 .. 24 VDC I min 36mA U min 12.8 V R 240 Ω	P min 0.46 W

(1) Other voltages and 60 Hz on request.

(2) AC(~) rectified coil construction

(3) Alternative materials of construction, methods of protection, or bi-stable operator function on request.

Refer **Dr Pneuton** for more information

Fig 1 SC & SG

Fig 2 NF

Fig 3 LISC

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THE PNEUTON™ PRINCIPLE **Notes**

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