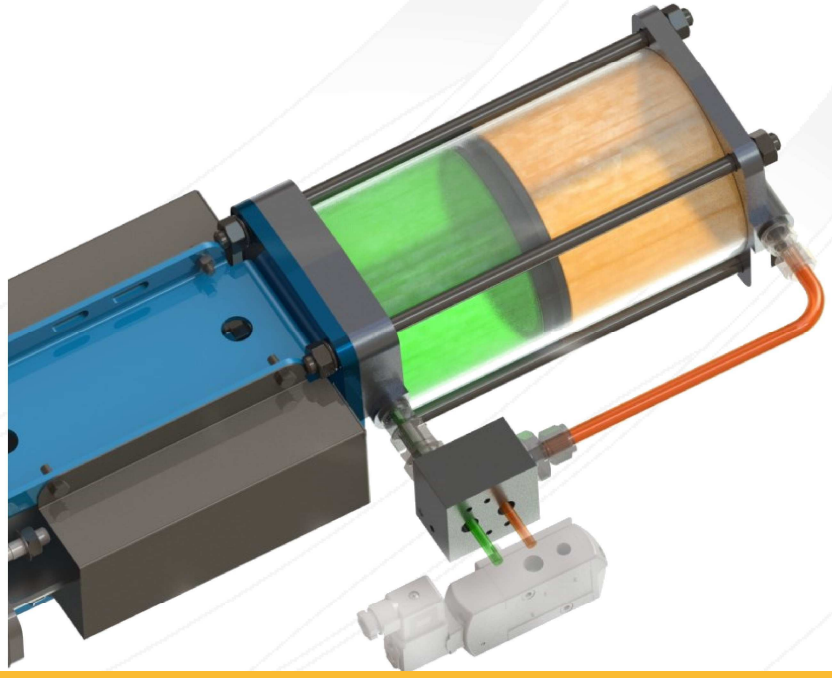
PneuNAMUR™

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

FEATURES AND BENEFITS

- 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.
- 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

Copyright © 2015 PNEUTON. All rights reserved. 81X 111 1XX (03/15)

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

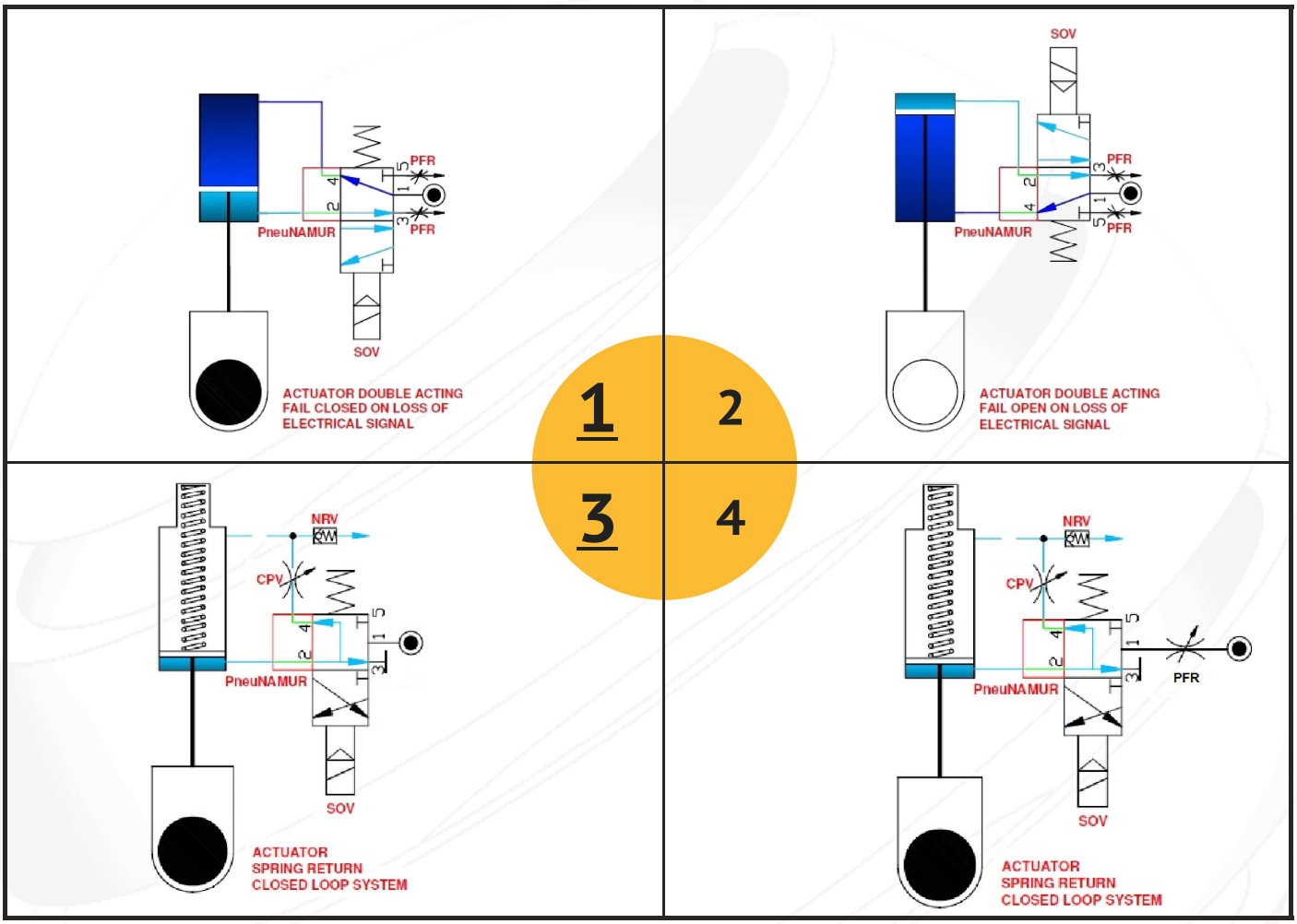
Pneuton
ENGINEERING VALVE AUTOMATION COMPLIANCE

PneuNAMUR™

REMOTE NAMUR BLOCK

THE PNEUTON™ PRINCIPLE

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.

Refer **Dr Pneuton** for more information

We reserve the right to amend the specification without prior notification

Copyright © 2015 PNEUTON. All rights reserved. 81X 111 1XX (03/15)

Pneuton

ENGINEERING VALVE AUTOMATION COMPLIANCE

PneuNAMUR™

REMOTE NAMUR BLOCK

THE PNEUTON™ PRINCIPLE

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	DIN 43650, 11 mm, industry standard B Plug & socket, cable size Ø 6-8 mm	24 VDC 115 VAC / 50 230 VAC / 50	3.0W 2.5 W 2.5 W
SCDUG551A001MS	Ex II 3D IP65 T 100°C Low level ATEX cat 3 dust	1	DIN 43650, 11 mm, industry standard B Plug & socket, cable size Ø 6-8 mm	24 VDC 115 VAC / 50 230 VAC / 50	3.0 W 2.5 W 2.5 W
NFETG551B301MO	Ex II 2G EEx d llC 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 IP65 Intrinsically safe	3	ISO 4400 / EN 175301-803, 18mm, 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 & SCDU

Fig 2 NF

Fig 3 LISC

We reserve the right to amend the specification without prior notification

Copyright © 2015 PNEUTON. All rights reserved. 81X 111 1XX (03/15)

PneuNAMUR™

REMOTE NAMUR BLOCK

THE PNEUTON™ PRINCIPLE

Notes

Units 6-7 Clock Park,
Shripney Road,

Bognor Regis,
West Sussex,

United Kingdom,

PO22 9NH.

Phone UK & Ireland : 01243 810240

Phone Int.l: +44 (0) 1243 860664

Email: webenquiries@pneuton.co.uk

We reserve the right to amend the specification without prior notification

Copyright © 2015 PNEUTON. All rights reserved. 81X 111 1XX (03/15)