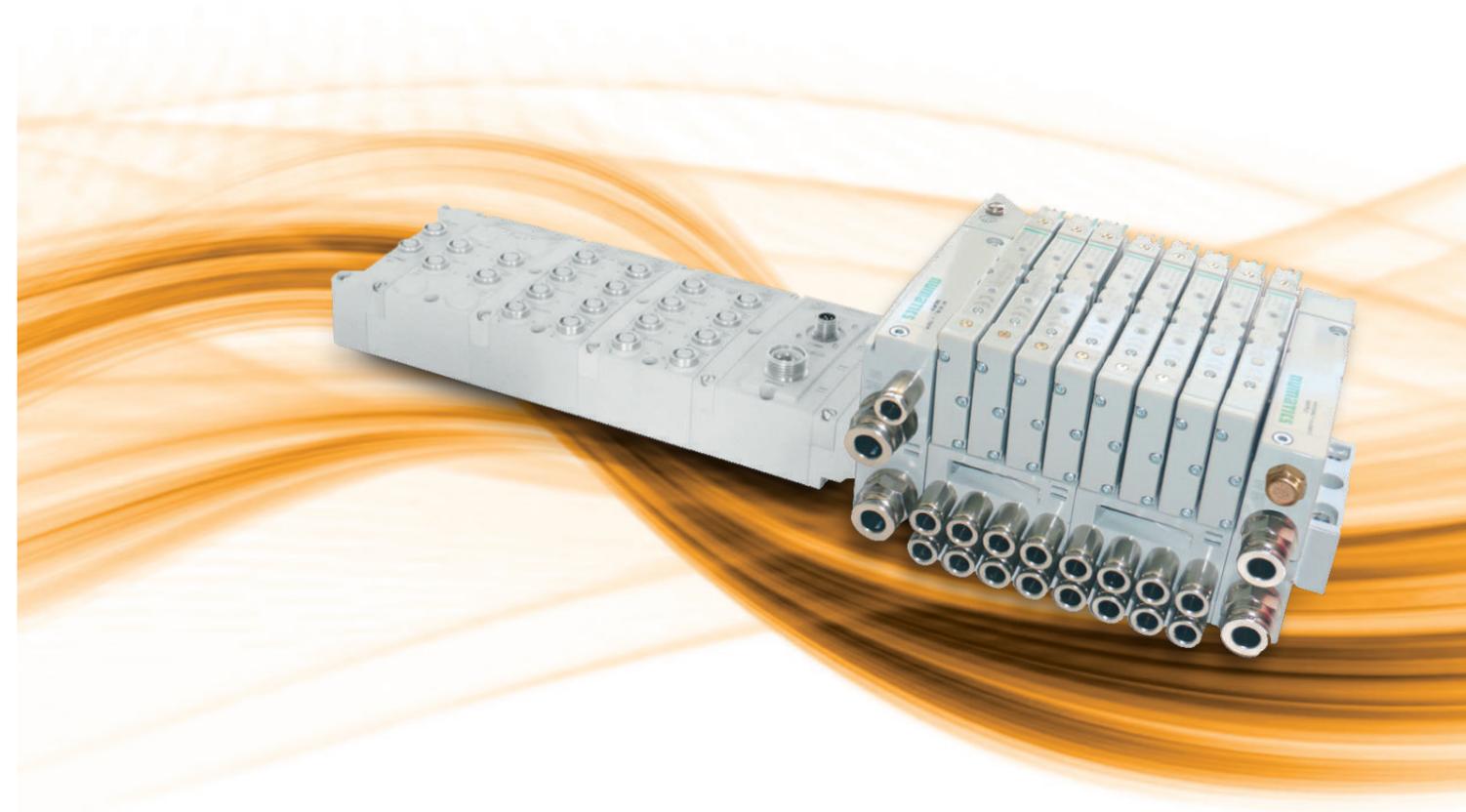


Pneumatic Valve Islands

Fieldbus & Multipol Automation



Scan in to see ASCO Numatics in action
Or go to www.asconumatics.eu/valve-islands

ASCO Numatics
92500 Rueil Malmaison
France
Tel: +33 1 47 14 32 00
webmaster.asconumatics.fr@emerson.com

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Dependable control solutions for each and every project

Whether you're looking to automate a simple machine or a complex plant area, you need components that are easy to integrate into existing systems and that are easy to install and commission. Especially as delays in engineering can impact significantly on project start-up times.

Consider it solved

Part of Emerson Industrial Automation, ASCO Numatics has vast experience in fluid automation, with an extensive range of products suitable for a wide variety of industries and applications. Our valve islands come with practical, high-end features such as digital displays to make commissioning and fault diagnosis easier. Our compact, modular valves offer the highest flow rate for their size, helping you to reduce machine footprint and lower costs.

Machine safety compliant and suitable for high or low demand applications, our products are tested and proven over millions of cycles. So you can install them with confidence and trust them to perform time after time. If you're short on time or resources, we can even offer pre-assembled, cabinet mounted solutions to make your job easier and make sure you hit your delivery deadlines. And with Europe-wide customer support teams, there is always a specialist on hand to help with any queries you may have.

Our products are used in a wide variety of industries, including:

Process Industry

- Food and Beverage
- Pharmaceutical
- Biotechnology

General Automation

- Packaging machinery
- Automotive
- General automation
- Robots



ASCO Numatics valve islands are offered with the industry's widest variety of fieldbus protocols and for hazardous and non-hazardous areas, including:

- Safe / non hazardous areas
- ATEX zone 2-22
- ATEX zone 1-21

For full information on the ATEX certification of our products, visit asconumatics.eu

Electronics Platforms

G3



The G3 Series product line is a completely modular system that uses an innovative clip design, allowing easy module removal and replacement without dismantling the whole manifold. It has a unique graphic display that supports plain-language messaging of diagnostic information at both the module and communication node level. The display helps to provide clear feedback when commissioning valves, allowing you to speed up the commissioning process and shorten your critical path. Plus, faults are easier to diagnose, meaning you can get up and running again much quicker.

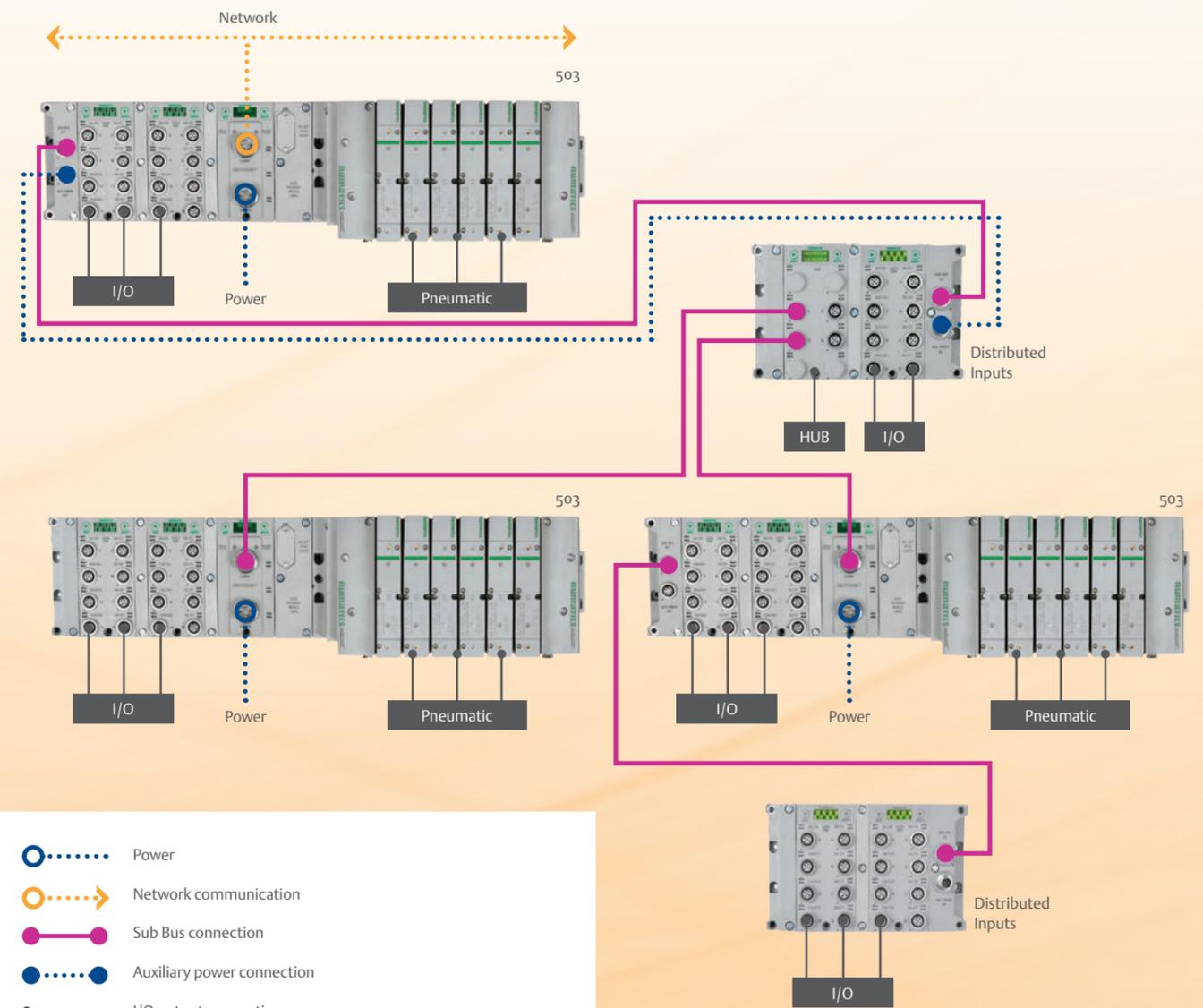


The G3 offers a high-speed, digital distributed solution allowing star or in-line topology, reducing the length of cable runs and pneumatic connections required and helping to lower costs and improve performance. It also provides a wide range of I/O capabilities, including analogue, digital (on/off) and temperature. This helps to make purchasing and engineering simpler as all options can be taken care of with a single device family.

The G3 also comes with a large range of communications options, including:



G3 distributed Solution



Electronics Platforms

580

The new 580 series offers a compact, affordable fieldbus electronics platform for applications that do not require the full capabilities of the G3. With the same graphic display, it is similarly easy to configure and commission. Its more compact size makes it ideal in situations where space is limited.

Just one 580 series fieldbus electronics unit can be used to create a manifold containing up to 32 valves. Building the manifold is easy as no internal wiring is required.

Commissioning is made just as easy. The power connector enables you to isolate all the outputs while leaving the inputs and communications active for commissioning and testing. The clear graphic display enables the network address and the baud rate to be easily set.

The same display makes diagnostics easy too. There is no longer any need to interpret a sequence of LEDs as the display uses plain language to show shorts, open loads, low & missing power and to trigger self-tests.

The 580 series is offered with the industry's widest variety of fieldbus protocols and is certified for use in hazardous and non-hazardous areas.



Multipol

A pneumatic spool valve island designed for easy connection to a PLC by means of a multiwire cable. Multipol reduces wiring time and costs, and makes maintenance easier with a visual display and quick disconnection. Each unit is rigorously tested and equipped with spool valves at delivery.

A Multipol connector offers a means to connect up to 32 solenoid valves to a PLC or control system easily.

The valves are connected to an electronics module that contains a SUB-D connector. A single standard cable is then used to connect the valve island to the PLC or control system. Connecting multiple valves in this way can drastically reduce the wiring time when compared to wiring and terminating individual valves.



Valves

ASCO Numatics valves offer the highest flow capability for their product size. Using these more compact valves helps you to reduce the total footprint of your system, lowering costs in the process.

We offer a breadth of product options and can even provide optimised in-cabinet installation, helping you ensure your project finishes on time and on budget.

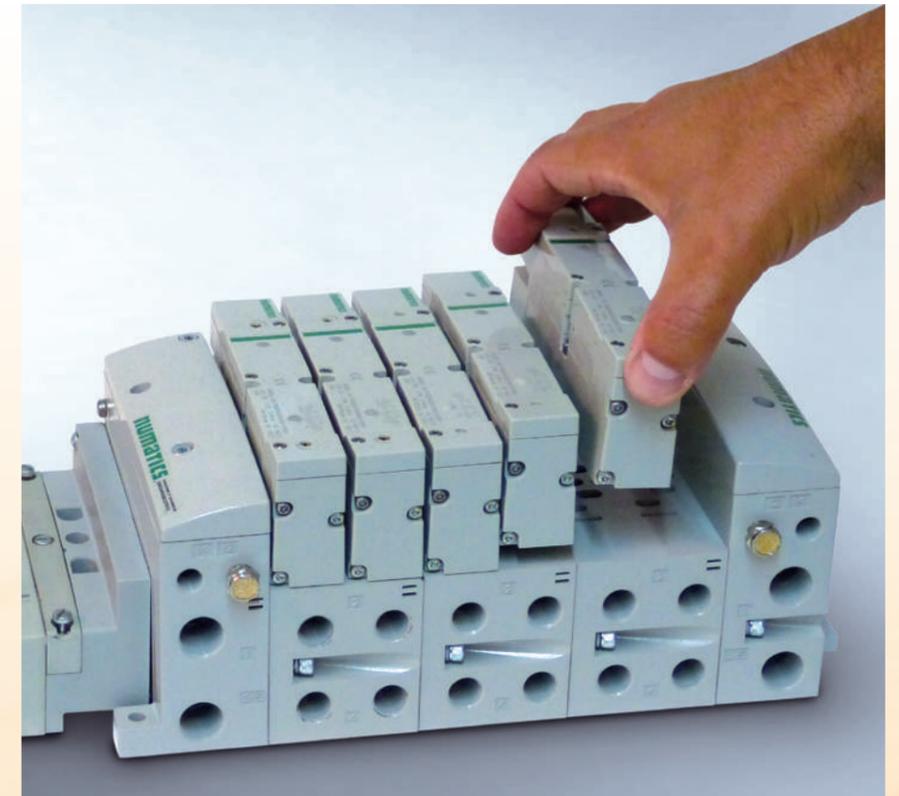


Series	501	502	503	2035
Connection	M7 2,7x4 or 4x6mm	G1/8 or NPT 4x6 or 6x8mm	G1/4-G3/8 or NPT 6x8 or 8x10mm	G3/8-G1/2 or NPT
Width	11mm	18mm	26mm	41mm
Flow (l/min) ANR	400	650	1400	3820
Pneumatic function	5/2 single or double solenoid, 5/3 W1, W2 W3, 2 x 3/2 NC-NC, 2 x 3/2 NO-NO			5/2 single or double solenoid, 5/3 W1, W3
Technology	Rubber pack	Spool and sleeve or rubber pack	Spool and sleeve or rubber pack	Spool and sleeve
Temperature	-10°C to +50°C			

W1: 5/3 closed centre position
 W2: 5/3 centre open to pressure
 W3: 5/3 centre open to exhaust
 NO: Normally open
 NC: Normally closed

The modularity of our valves provides a high number of configurations, and our sandwich component offering is the broadest in the industry, providing:

- Pressure regulators
- Pressure shut off
- Exhaust flow control
- 24V DC and air pilot zoning for machine safety integration



Sandwich components



Pressure regulator to regulate the pressure to an individual valve. Available as a double regulator to regulate the outlet pressure also.



Shut off block to isolate the pressure to a single valve. This enables removal and maintenance of a single valve without shutting off supply to the whole manifold.



Sandwich pressure blocks enable a supply to be provided to an individual valve, independent of the manifold supply.



Sandwich exhaust blocks enable the exhaust from individual valves to be piped away independent of the manifold exhaust.



Speed control blocks enable adjustment of the outlet flow of a single valve to alter the speed of operation of any device that is connected.

Solutions

Save time and money with ASCO outsourced solutions

For customers who may be tight on time or short on resources, we offer fully pre-assembled, ready to install systems, specifically built and certified to your specification.

From pre-assembled products to cabinet-mounted assemblies, solutions are provided for different levels of integration, from simple actuators to boxes and multifunctional cabinets. Installation and connection on site is a quick and easy process, while certification is simplified as cabinets can be pre-certified ready for use. We offer a wide range of pre-assembled solutions, with the potential cost savings dependent on the level of integration required.

Pre-prepared components

Packaged together for faster installation, the reduction in procurement and processes typically provides savings of up to 20%.

Assembled solutions

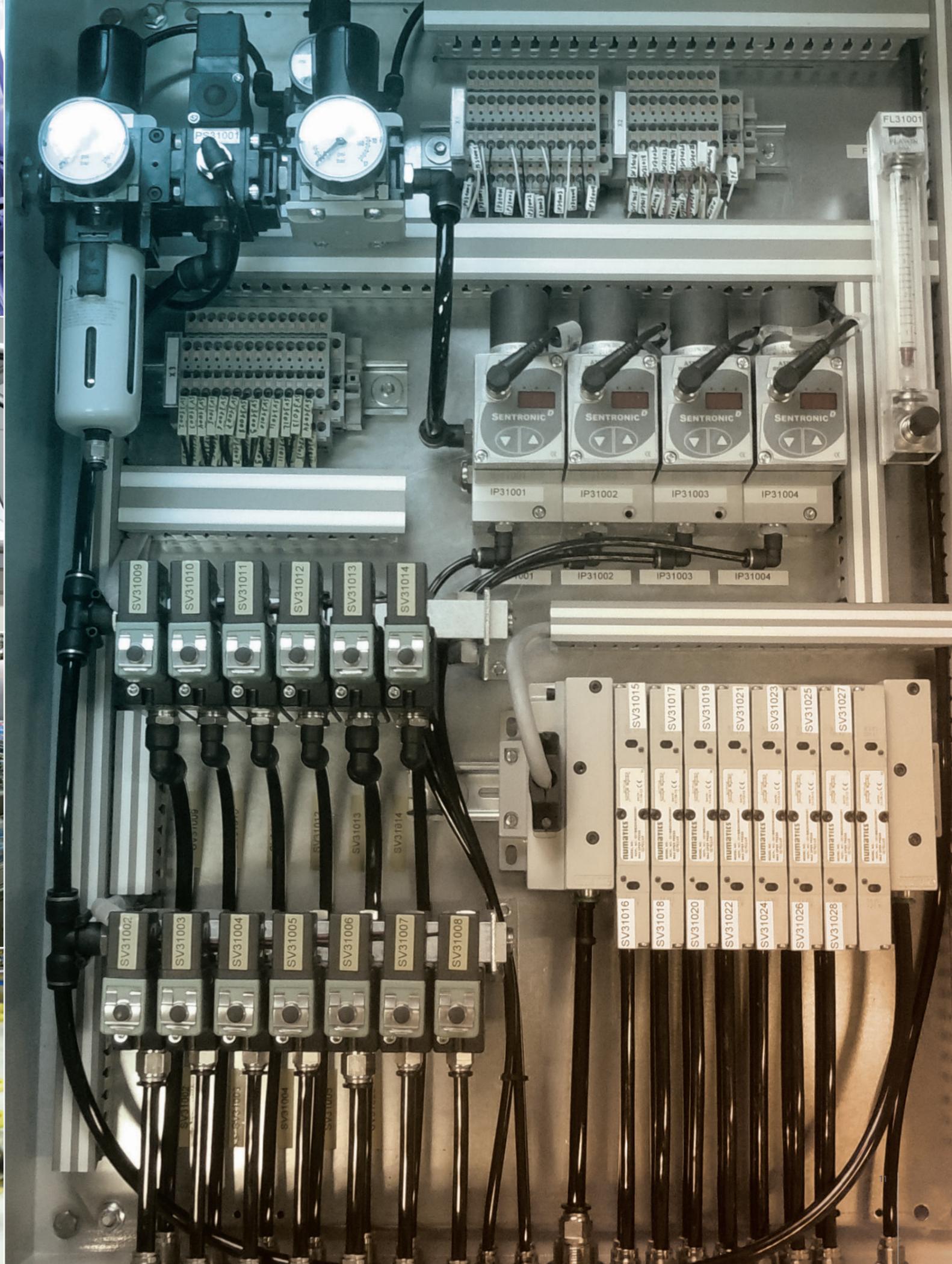
Providing further opportunities for integration and savings, components are ready-mounted, removing the need for assembly on site and delivering savings of up to 30%.

Turnkey solutions

Where components need to be box, cabinet or chassis-mounted, ASCO will assemble, test and deliver turnkey solutions to specification. The reduction in assembly costs, together with R&D, design and procurement, translate into savings of up to 50%.

Bespoke solutions

ASCO's team of experienced design engineers develops new products using computer-based engineering software to create three-dimensional models from traditional engineering drawings. The result is a highly detailed mock-up for inspection, which lowers the risk of design amends during the production phase.



Product Configurator and CAD Library

Example screenshot of 501 Series.

ASCO has an extensive library of downloadable CAD drawings to help make design and specification easier for you. Our Valve Island Configurator application provides 2D and 3D CAD models in 85 industry standard file formats. Unique logical menus simplify product and option selection. The resulting CAD files and part number information are designed to meet every aspect of your design requirements in a single file.

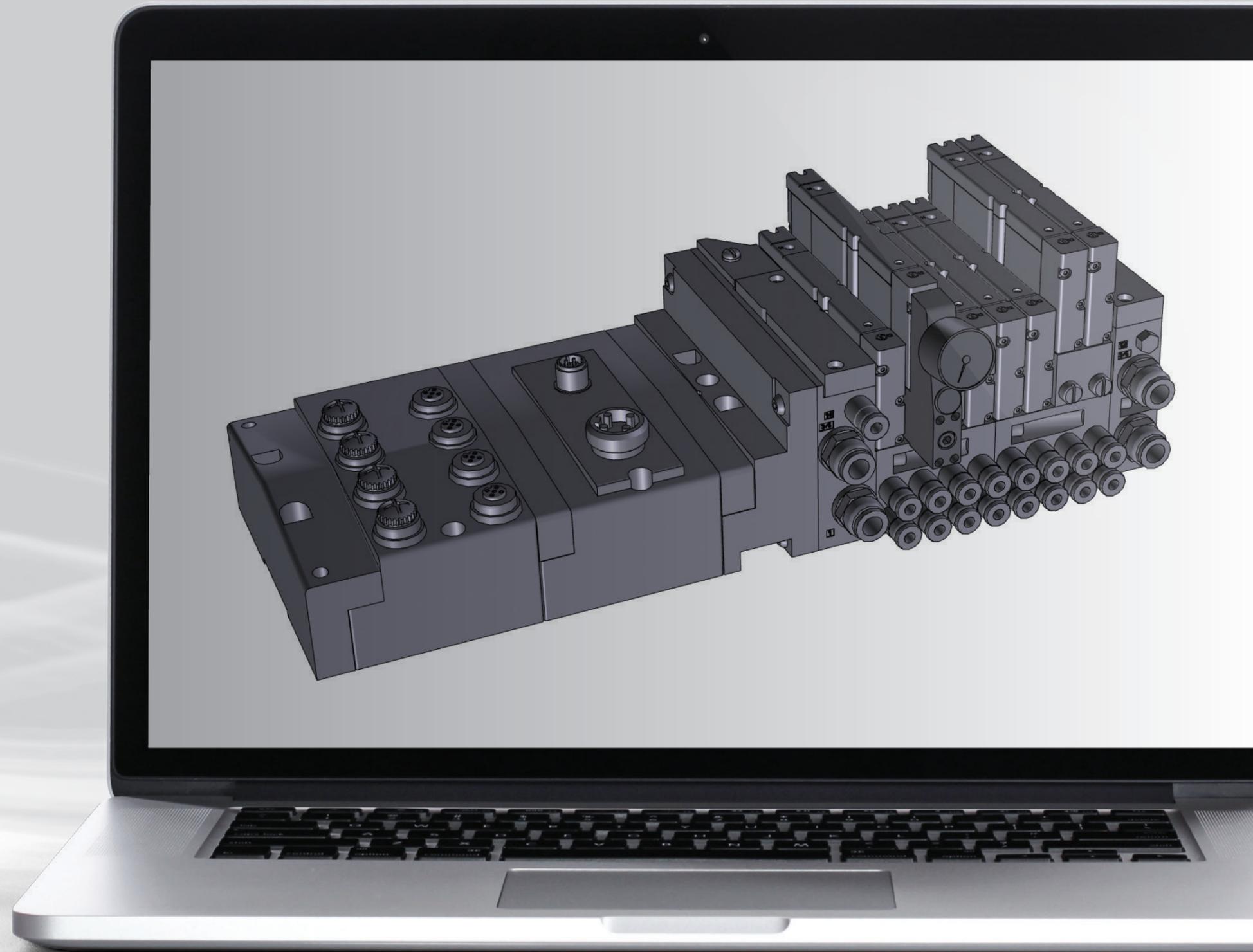
The valve island configurator tool is intuitive and steps you through the process of selecting and designing a valve island that meets the needs of your application. Selections include the desired fieldbus protocol, whether the valve is DIN rail mounted and the number of I/O stations.

For each I/O station you are able to select the type of I/O required. Typical selections would be Input or output, digital or analogue, RTD input etc. You can also choose the number of I/O required for each station.

When selecting valves you are able to choose the type of valve you require, the function and any options that you may need.

The configurator tool is ideal for designers who want to be sure that the ASCO Numatics valve islands will fit into their machines and also for engineers looking to configure and select a valve island for a particular project on their plant.

Visit asconumatics.eu/cadlibrary



Why Emerson

Solving our customers' problems is our passion. As a technology leader, we recognise that the key to customer satisfaction and our long-term success is to anticipate customer needs and develop new technologies and innovative solutions that provide our customers with a distinct competitive advantage.

Emerson has established a reputation around the world for technology innovation and industry leadership. Our game-changing technologies have served to transform whole industries

We are committed to driving continued technological progress, setting new industry standards, maintaining a strong commitment to research and development, and increasing the pace of our new product development and speed to market. Our approach includes extensive research on both emerging technology trends and key global market trends and customer challenges that enable us to prioritise our R&D efforts.

At Emerson, we are particularly proud of the array of technology solutions and products that our engineers have developed to help industrial users, commercial businesses, and consumers use energy more responsibly. Today we are hard at work developing the next generation of technologies and services that can continue to improve energy efficiency, lessen impact on the environment, and provide energy resources for our world.

We take pride in developing forward-thinking technologies that help our customers stay ahead of the curve. Our product development teams follow a systematic approach to developing new products – listening to and collaborating with our customers, generating ideas for new products and services, developing the right designs and engineering approach, establishing the manufacturing infrastructure, and providing marketing, sales, and customer service support for product launch and market success.



About Emerson Industrial Automation

Emerson Industrial Automation delivers manufacturing solutions designed with leading technologies - including mechanical, electrical and ultrasonic - to provide the most advanced industrial automation possible for numerous and diverse industries worldwide. The company's wide range of products and systems used in manufacturing processes and other equipment includes motion control systems, plastics joining, precision cleaning, materials-testing equipment, fluid control valves, alternators, motors, and mechanical power transmission drives and bearings. Its brands include ASCO Numatics – the world's leading brand of solenoid valves and pneumatic components for over 100 years.