

# Oil & Gas



# The reliable choice for the Oil and Gas industries

Due to our global presence, hazardous area expertise and a broad range of solenoid valves and actuator control products and solutions, ASCO are the preferred supplier to those operating in or supplying to the Oil and Gas industry worldwide.

Our wide range of solenoid valves, air operated valves, actuator control systems, pneumatic actuators for valves and dampers, and safety related bypass panels and cabinets combine to provide integrated solutions that meet the extreme challenges of this industry.

With 100 years of experience behind us and innovations that include the first industrial solenoid valve, the first plug and play sub base and the first valve island with plain language diagnostics, we have the expertise to support our customers in applying our products to their applications and in engineering new solutions when one doesn't exist.

Whether being used in applications that are upstream, midstream or downstream, off or on shore, in the desert or in the Arctic Circle we have the products for you. Our products, solutions and services have been shown time and again to provide real benefits throughout the whole product lifecycle.

Thanks to their proven reliability and rugged engineering, ASCO products are ideal for critical and safety related applications. Their extensive certification, low power capabilities and corrosion resistance make them the most specified products for a wide range of applications, no matter where in the world they are used and no matter what the environmental conditions.







### **Global solutions**

ASCO have the largest worldwide presence of any supplier in our business. So you get consistent and reliable local service and technical support wherever you are.

### **Engineering capabilities**

ASCO has the capability to deliver bespoke valve automation and control solutions based on our industry-leading range of solenoid valves, air operated valves, cylinders and air preparation equipment.

### **Market leading products**

With a broad product range, high flow capabilities, a full range of hazardous area and SIL certification, extreme corrosion resistance and a market leading efficiency, our products are ideally suited for tough severe service Oil & Gas applications.

### **Deep product and process expertise**

Our designers, engineers, service people, and representatives are renowned as being the experts in actuator and fluid control. They know it inside and out whatever the application. This knowledge has been developed during more than 100 years in the industry.

### **Proven reliability and quality**

Our employees and customers expect a well engineered product and superior reliability. Survey after survey confirms they get it.

# The advantages of working with ASCO

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No other company can equal the ASCO range and competence and provide the kind of stability that being part of a company like Emerson can bring. This in itself delivers significant value to our customers.

## Cutting engineering time

Our fully engineered actuator control systems, bypass panels and control cabinets can drastically reduce your engineering man hours. Working from process schematics, we can design and manufacture complete solutions that are delivered to site fully certified and ready to be installed.

## Reducing project installation costs

Installing reduced power solenoid valves saves money throughout the project. Reduced power means thinner cabling, more solenoids per node and fewer or lower capacity power supplies. Installing fully certified cabinets or panels instead of individual components reduces the time taken on site during the construction phase.

## Greater asset uptime and higher productivity

Time lost to shutdowns or delays can become very expensive very quickly. ASCO products have unique features that enable a longer service life. Independent tests as part of the SIL certification have confirmed our extended safety and reliability.

## Smoother integration

Our products work efficiently together and with thirdparty products. You get far fewer integration issues, and take less risk.

## Single point of accountability

We supply more products and solutions - so you have fewer calls to make and have greater peace of mind.

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The ability to deliver  
bespoke valve automation  
and control solutions

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Drastically reduced engineering man hours

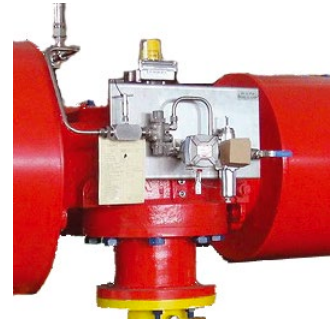


# Applications

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## Actuator controls

With numerous options for process and safe actuator controls we are able to meet your needs – with no compromise. Whether looking for an actuator control system with a filter regulator, redundant solenoid valves and other accessories, or for a fully NACE compliant, stainless steel poppet valve we have the products to suit. We offer direct operated poppet valves, indirect operated spool valves and valve islands for high density applications.



## Offshore

ASCO solenoid valves have been used in offshore applications for many years, including in the harsh environmental conditions of the North Sea. The “non-breathing” design of our 327 direct operated solenoid valve ensures the external environment is kept where it belongs – external to the valve. This enables greater reliability and less chance for seizure. Likewise, our use of NACE compliant materials on these valves does not stop on the outside either. If material can be exposed to the environment when under repair or when being installed then we have ensured that is compliant also.

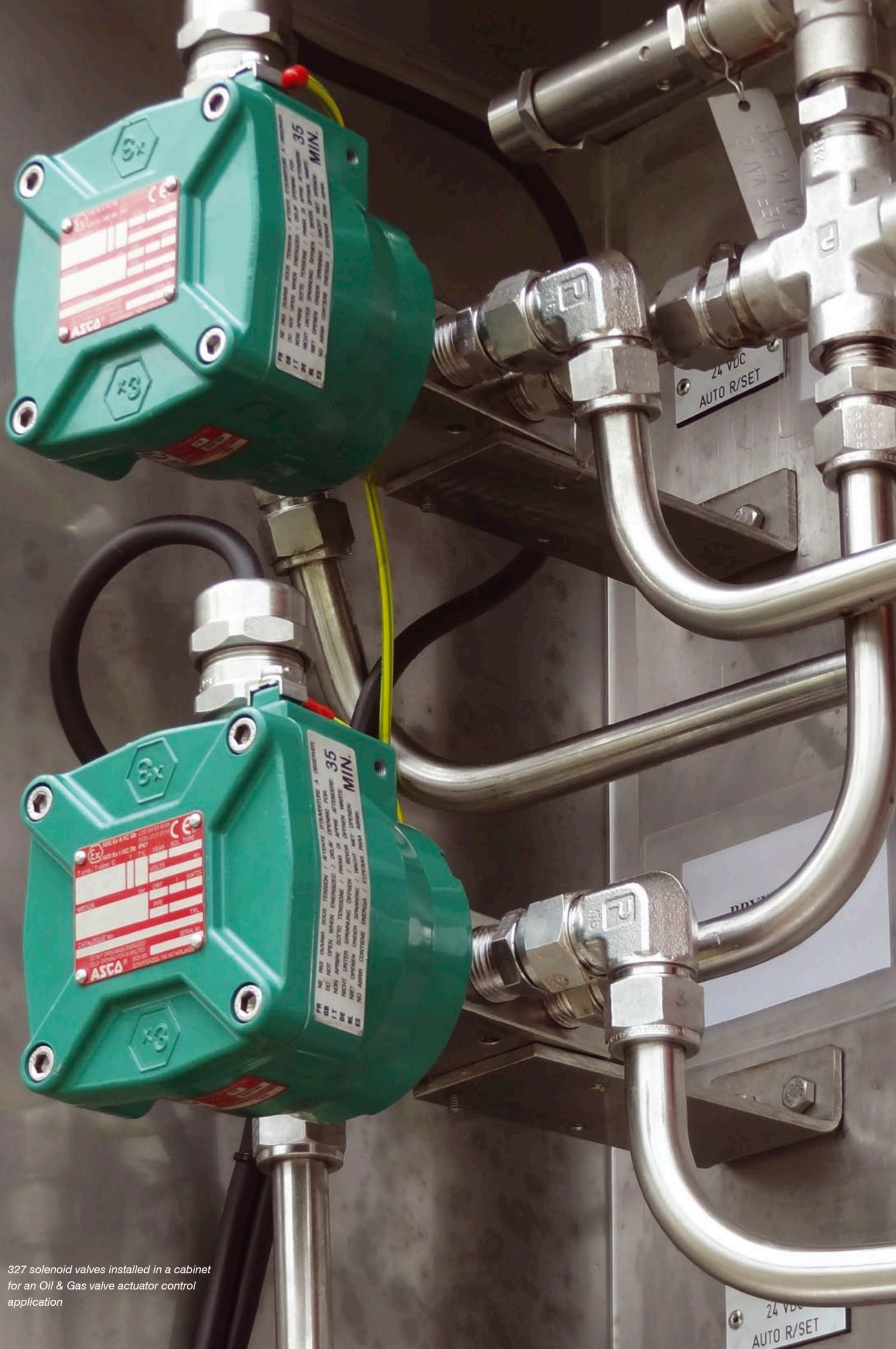


## Functional safety

Whether looking for a SIL certified solenoid valve, a redundant control system cabinet or a solenoid valve for use in a High Integrity Protection System, we have the product for you. Certified to SIL level 3 and with an extremely high mean time between failures (MTBF) you can be assured that our safety related solutions will protect your plant for years to come.







327 solenoid valves installed in a cabinet  
for an Oil & Gas valve actuator control  
application



# Applications

## Namur interfaces

For those applications where a Namur interface is essential we have products to suit. Ideal for close-coupling a solenoid valve to an actuator or to a positioner, a Namur interface ensures standard mounting dimensions and reduces the need for extensive engineering. A Namur interface prevents the actuator breathing air from the environment, a potential source of failure.



## Hazardous areas

Our engineers have extensive knowledge and profound understanding of hazardous area legislation and its application. Our aim is to always work one step ahead of the latest approved standard wherever possible. This ensures we maintain our leadership position in this market. In order to best serve the global Oil & Gas markets our products are available with all the major hazardous area certification including ATEX, CUTR, UL, CSA and NEPSI.



## Valve and damper actuation

We have a full range of pneumatic cylinders and accessories for actuating control valves and dampers. With various designs and materials available as well as numerous solenoid options these can easily be integrated into a full automation solution.







*With all the solenoid valves installed in a cabinet the only site work required is one electrical connection, one pneumatic inlet connections and pneumatic outlet connections made at a bulkhead*

# Products and solutions

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## Solenoid Valves

Our robust solenoid valves are designed to meet the stringent demands of Oil & Gas applications. Direct mount or piped configurations can be coupled with spring-return and doubleacting actuators for use throughout your process. Plus new 0.55 W models are perfect for networks with low power limitations. Our solenoid valve efficiency (the relationship between power consumption, flow rate and pressure differential) is market leading, ensuring efficient plant operation.



## Actuator Control Systems

Our actuator control systems are supplied fully assembled and certified – ready to go. A full range of accessories including filter regulators, boosters, speed controllers, relief valves and nonreturn valves make us extremely versatile and able to meet all your requirements for process or safety applications.



## Redundant control systems and by pass panels

The testing of solenoid valves used on safety related applications is crucial to maintaining safety integrity. Our bypass panels and redundant control systems enable valves to be tested while ensuring the shutdown valves can still operate as required.



## Actuated Globe Valve Assemblies

ASCO 2 and 3 way piston operated process valve assembly with integrated solenoid valves and a range of other accessories offer a cost effective alternative to an actuated ball valve assembly, this linear on/off valve is your stand alone solution that can be used in a variety of applications.

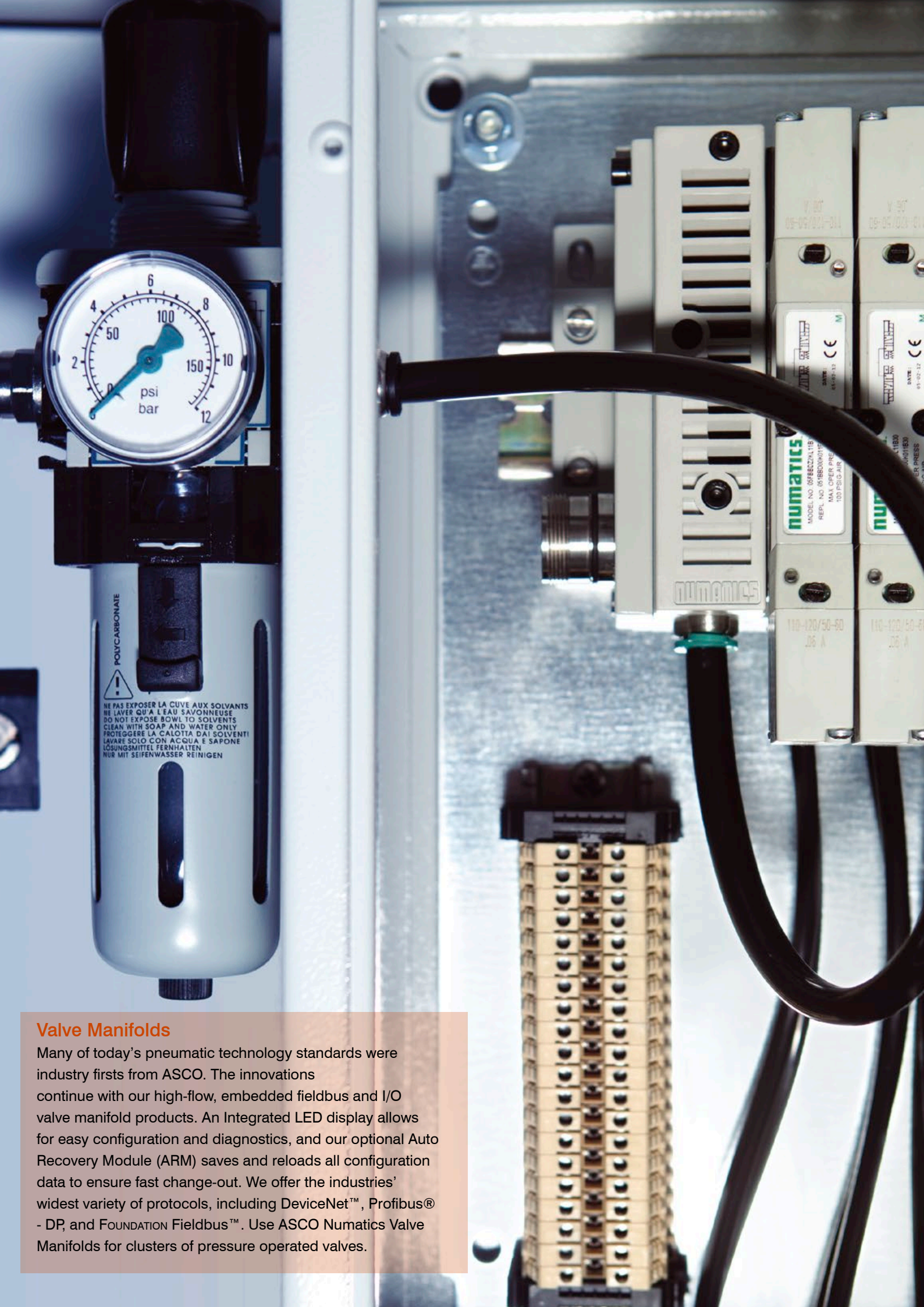


## Air preparation equipment

These filters and regulators, treat air quality and pressure in your plant's pneumatic system. Apply them to control pressure or meet filtration requirements for your pneumatic equipment. These high-performance products are available in multiple configurations and materials, including full 316L stainless steel for use in corrosive environments.







## Valve Manifolds

Many of today's pneumatic technology standards were industry firsts from ASCO. The innovations continue with our high-flow, embedded fieldbus and I/O valve manifold products. An Integrated LED display allows for easy configuration and diagnostics, and our optional Auto Recovery Module (ARM) saves and reloads all configuration data to ensure fast change-out. We offer the industries' widest variety of protocols, including DeviceNet™, Profibus® - DP, and FOUNDATION Fieldbus™. Use ASCO Numatics Valve Manifolds for clusters of pressure operated valves.



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Fluid Automation. Right. Now.™

