

ASCO numatics™



Fluid Automation Solutions for Food and Beverage

www.asconumatics.com


EMERSON
Industrial Automation



Fluid automation solutions from ASCO Numatics represent the industry's widest range of innovative, ultra-reliable products. They're delivered on time and on budget, receive unsurpassed support, and provide unequalled performance.

Presenting ASCO Numatics solutions

The first choice for food and beverage

ASCO fluid control and Numatics fluid power products have been on the job in food and beverage applications for more than 100 years. Today, ASCO Numatics provides superior fluid automation solutions for engineers, purchasers, and managers at original equipment manufacturers (OEMs), skid and panel builders, engineering houses, and leading food and beverage plants worldwide.

Solutions across the plant

Choose ASCO Numatics as your single-source fluid automation supplier for process/packaging automation in splash/wet areas and other parts of the food and beverage plant. No other vendor provides an array of solutions this diverse, reliable, and technologically advanced. Trust ASCO Numatics' innovative, easy-to-use, high-performance designs to increase plant uptime, maximize machine efficiency, and reduce total costs for all your fluid automation requirements.

Specify our solutions for all parts of the plant:

- **Processing** – from mixing, stirring, sterilizing, and pasteurizing to filtering, dosing, and ensiling
- **Packaging** – from filling, capping, labeling, and shrink wrapping to case erecting and palletizing
- **Infrastructure/utility** – from boiler or compressor room to transport lines and comfort heating
- **Water/wastewater** – from clean water supply to recycled discharge

Increased plant uptime and throughput

ASCO Numatics products emphasize durable build quality and robust components for greatly extended life cycles, to cut maintenance costs and maximize uptimes. For example, ASCO solenoid valve coils and Numatics valves' spool-and-sleeve constructions are famous for far outlasting competitive designs, even in challenging applications. The results: unsurpassed performance and service life in food and beverage processing plants worldwide.

This dependability is attested by the industry's widest range of third-party certifications – CSA, UL Listed, NSF, UL Recognized, IECEx, FM, and more.

Increase plant throughput via our sophisticated integration of advanced fieldbus electronics and proportional technology. This integration provides unprecedented flexibility during application development to meet your design requirements, maximize throughput, and optimize machine efficiency.

Assured availability

With many vendors, long lead times and uncertain scheduling may threaten your assembly target dates or prolong your plant's downtime. By contrast, ASCO Numatics maintains unsurpassed product availability — plus greater than 90% on-time delivery for most products. In addition to the industry's most extensive distributor network, many of our most popular products are available via our ASCO Today, ASCO 5Day, and Numatics Express quick-shipment programs.

Reduced resource consumption

ASCO Numatics' market-leading technologies help decrease plants' carbon footprints via savings in electricity, compressed air consumption, raw material usage, and lubrication. For example, our state-of-the-art proportional valve technology lets you accurately control the flow of any fluid or media — significantly reducing raw material waste.

In addition, Numatics has developed a proprietary technology called Numasizing® that optimizes compressed air and energy usage through the proper sizing of pneumatic components. Numasizing also selects the best pressures for air efficiency and negates the need to speculate on the stroke time of an actuator, even when subjected to two different loads.

Numasizing is not based on a theoretical approach or a mathematical model, but on actual results of over 250,000 test firings of cylinders. This "built-in experience" allows Numasizing to predict and recommend components and pressures with confidence. The result is a tailor made circuit designed specifically to the customer's operating and energy reduction targets. Numasizing has achieved more than 40% savings in plant air and energy costs.





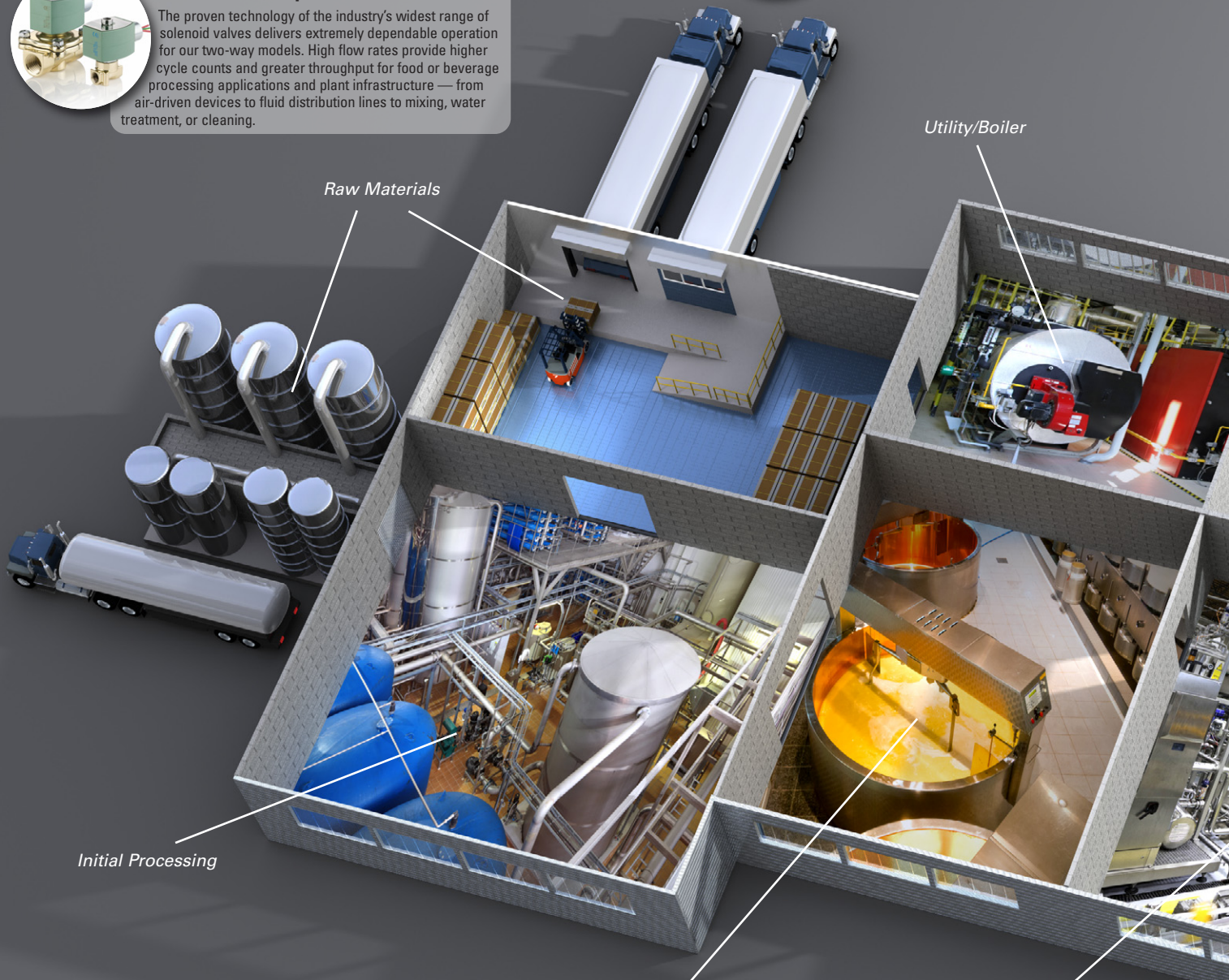
ASCO General Purpose Solenoid Valves

The proven technology of the industry's widest range of solenoid valves delivers extremely dependable operation for our two-way models. High flow rates provide higher cycle counts and greater throughput for food or beverage processing applications and plant infrastructure — from air-driven devices to fluid distribution lines to mixing, water treatment, or cleaning.



ASCO Combustion Valves

Choose from the industry's broadest line of solenoid and electrohydraulic fuel gas and oil shutoff valves. Some models combine extremely high flows with compact designs for economical fuel train downsizing — perfect for burners and boilers



Raw Materials

Utility/Boiler

Initial Processing

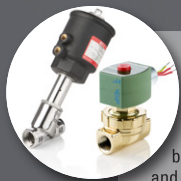
Mixing/Stirring

Beverage Bottling/Packaging



ASCO Solenoid Pilot Valves

These ultra-reliable products are designed to operate equally well in high-cycle or low-cycle use — all in the dirtiest environments. Our three-way and four-way models are often mounted directly onto actuators controlling process valves, sanitary valves, and cylinders for demanding process automation and motion control operation in processing or packaging applications. Innovative low-power valves draw as little as 0.55 W for low-consumption applications.



ASCO Special Service Solenoid Valves

Rugged high-flow, long-life hot water and steam valves are uptime champions. They provide up to 60% higher flow than competing designs, with angle-body piston models that offer up to 5X longer life than conventional ball valves for steam jacket kettle cooking, steam peeling, and bottle washing. Air-operated valves surpass conventional ball valves for air dryers, barrel washers, and more, and are ideal in fluid supply/return lines for processing or cleaning.



Numatics Proportional Control Valves

These high-performance, versatile valves offer maximum flexibility via precisely modulated control of air flow or pressure. Direct-acting solenoid actuation is robust and easily optimized for your application using unique software for setup and diagnostics. Advanced options include dual-loop control of process variables such as pressure, flow, force, position, RPM, or temperature — ideal for applications such as bottle filling, blow molding, and labeling machines.



Numatics Valve Manifolds and Advanced Electronics

Our UL Recognized and IP65-rated pneumatic valve manifolds — with innovative features such as integrated displays for easy configuration and diagnostics, embedded fieldbus and I/O for centralized or distributed configurations, and the widest variety of fieldbus protocols — provide the most advanced fluid power technology available. Mount these single/dual three-way or four-way valve manifolds in enclosures or panels to remotely pilot process actuators and valves, or directly on food packaging equipment for fast, repeatable response rates and high cycle life. Choose from standard ultra-reliable spool-and-sleeve design for service life up to 100 million cycles, or optional rubber seal design for an economical alternative that won't sacrifice performance.

Water Treatment

Packaging/Case Packing



Packaging/Palletizing



Numatics Actuators and Cylinders

Automate motion control throughout your plant with these wide-ranging designs. Rugged cylinders are ideal for many bottling and packaging uses, including tight fits and corrosive applications, with rodless models and air bellows for low maintenance and high force in compact spaces. Our many pneumatic actuators include washdown-ready stainless steel and composite tube models, plus other corrosion-resistant materials for the most severe environments. Our many varieties of ISO and NFPA actuators and linear-guided cylinders, slides, grippers, and multi-motion products suit your most demanding food or beverage needs.



Numatics Air Preparation Products

Our filters, regulators, and lubricators (FRLs) provide various air filtration levels for better air supply quality in the plant, with conventional or modular mounting. Available stainless steel inline design withstands harsh plant environments. Numatics' lockout and shutoff valves meet OSHA specifications, shutting off or disconnecting your equipment's energy sources safely and quickly during any plant maintenance.



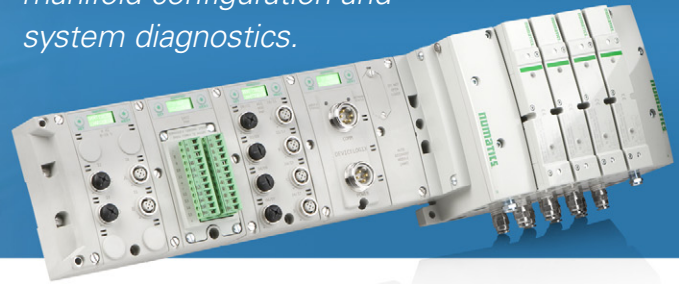
Numatics Vacuum Products

Choose from a broad selection of vacuum generators with the industry's lowest air consumption. Plus our arrays of ejectors, pumps, grippers, cups, and more supply superior performance for material handling and packaging applications from baking to handling of eggs or candy to pick-and-place to thermal forming.



Ahead of the field in communication protocols.

Our patented, industry-first G3 integrated fieldbus electronics with unique onboard LED graphic display empowers the easiest available manifold configuration and system diagnostics.



More ASCO Numatics advantages

Superior support. From design to production, resolving your questions quickly often means meeting project deadlines and minimizing plant downtime. The intense customer focus of our experienced field sales force, technical support staff and distributor network brings you the fastest response and most knowledgeable, application-savvy answers. In North America, get expert callbacks within 4 hours, on-site technical response within 24 hours — and on-site training whenever your schedule requires it.

Comprehensive solution sets. No one else offers as wide a selection of materials, coatings, components, interfaces, electrical options, industry approvals, and other choices. Explore our unmatched capabilities to meet or exceed your specifications with standard or customized designs.

Ahead of the field in communication protocols. Our patented, G3 integrated fieldbus electronics with unique onboard graphic display empowers the easiest available protocol configuration and system diagnostics. Get the industry's widest variety of protocols, including DeviceNet™, Profibus®-DP, EtherNet/IP™, Modbus TCP/IP, EtherCAT®, and Ethernet POWERLINK®. And our optional Auto Recovery Module (ARM) saves and reloads all configuration data — allowing configuration to be reproduced in the event of power disruption or replacement of a module.

Our customers agree

“ASCO Numatics is the best vendor I have ever had when it comes to making and modifying products to meet my demand.”

“Years ago, our company switched to them as our sole vendor for all pneumatic products.”

“Getting that special cylinder or valve in a timely fashion is what helps us in the marketplace. ASCO Numatics helps tremendously with that.”

“We have received both great products and outstanding services!”

Get acknowledged reliability, proven availability, unsurpassed performance, and ensured uptime for your food and beverage equipment.

Call ASCO Numatics today!

Global leadership

ASCO Numatics, an Emerson company, offers comprehensive fluid automation solutions, including flow control and pneumatic products, for a wide range of industry-focused applications. The ASCO Numatics line comprises more than 50,000 valves, an extensive selection of air preparation equipment, and a comprehensive line of motion control products. The company is the world's leading manufacturer of solenoid valves.

Emerson (NYSE: EMR) is a diversified global manufacturing and technology company that offers a wide range of products and services in the industrial, commercial and consumer markets through its Process Management, Industrial Automation, Network Power, Climate Technologies, and Commercial & Residential Solutions businesses. Recognized widely for its engineering capabilities and management excellence, Emerson has approximately 132,000 employees and 230 manufacturing locations worldwide.

Global Contacts

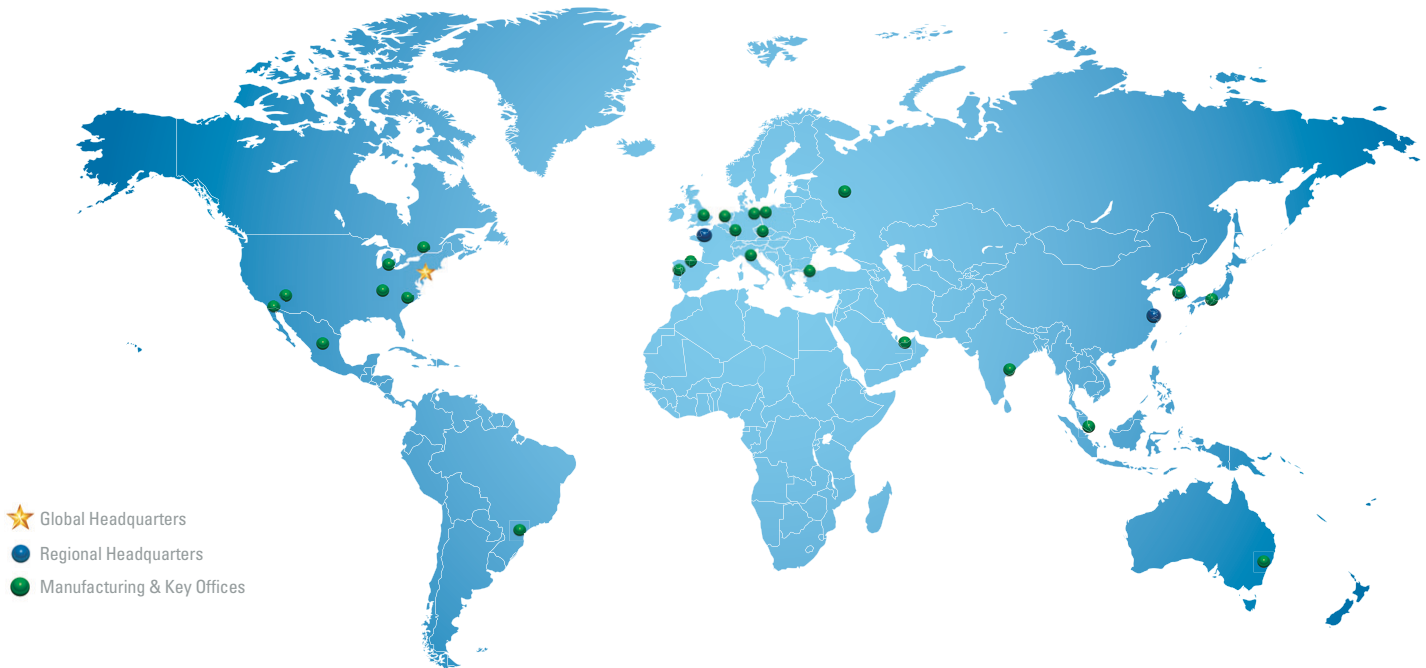
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