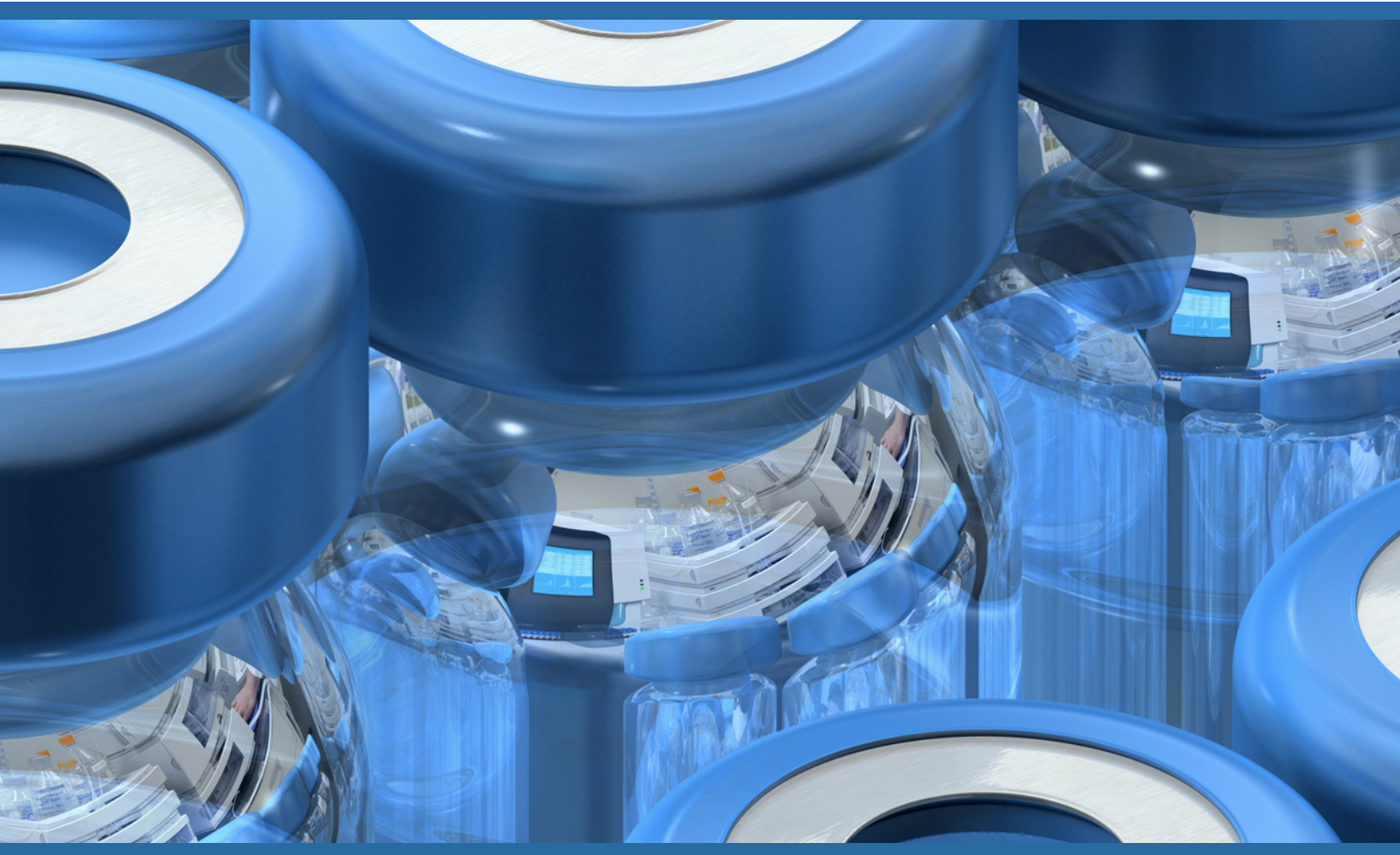


ASCO
NUMATICS™

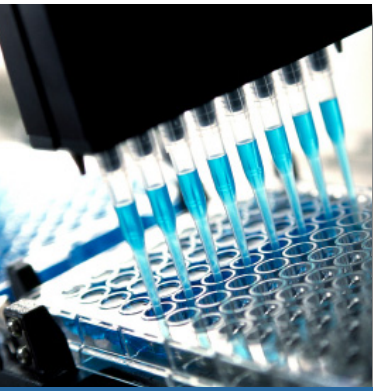


Fluid Automation Solutions

for Analytical & Diagnostic Equipment

www.asconumatics.com


EMERSON
Industrial Automation



Analytical and diagnostic equipment makers are discovering that ASCO Numatics isolation valves and manifolds provide the high repeatability, small internal volumes, and low pumping effects they need. Specify them for proven performance in high-precision analytical and diagnostic equipment.

Presenting ASCO Numatics solutions

The choice for excellence

Solenoid-operated miniature isolation valves and associated manifolds from ASCO Numatics are fast becoming the preferred fluid automation choice of original equipment manufacturers (OEMs). Our advanced solutions control the flow of aggressive fluids for applications ranging from dental chairs to clinical laboratory equipment.

Design engineers specify stock and customized ASCO Numatics solutions for equipment including:

- Liquid chromatographs
- Gas chromatographs
- Hematology analyzers
- Chemical analyzers
- Fraction collectors
- Immunoassay devices
- Automated pipettes
- Blood gas detectors
- Mass spectrometers
- DNA analyzers

These ASCO Numatics solutions are also ideal for critical life sciences applications such as fermentation, water treatment, trituration, and levitation. Plus they're vital components in compound separation processes such as decantation, collation, filtration, centrifugation, and precipitation.

We also fit the way your process line works. Our products occupy the smallest possible footprint. They provide the lowest available cost of ownership. And to assist with validation, we keep meticulous records and adhere to industry-standard cGMPs (Current Good Manufacturing Practices).

Unequaled advantages

Have it your way. All valves are designed to accommodate unlimited manifold configurations. Multiple porting options are also standard.

Product breadth. Whether you need a valve with flow measurements in liters or microliters, ASCO Numatics has what you need. It represents a single source for a wide range of valves from 8mm to 50mm in width, with various orifice sizes, elastomers, and isolation mechanisms.

Industry leader. ASCO Numatics is the only major valve manufacturer whose isolation valves are manufactured in ISO Class 8-equivalent clean rooms to eliminate contamination risks.

Worldwide coverage. ASCO Numatics global presence supports you anywhere in the world.

And they're all made with the unequaled expertise of the world's leading maker of solenoid valves.

Powerful performance

Repeatable results. Accurate time after time, ASCO Numatics isolation valves deliver precisely the same performance over 1 cycle as they do over 1 million. In dosing applications, for example, our valves match each other's actuation speed and volume disbursement, for accurate readings time after time.

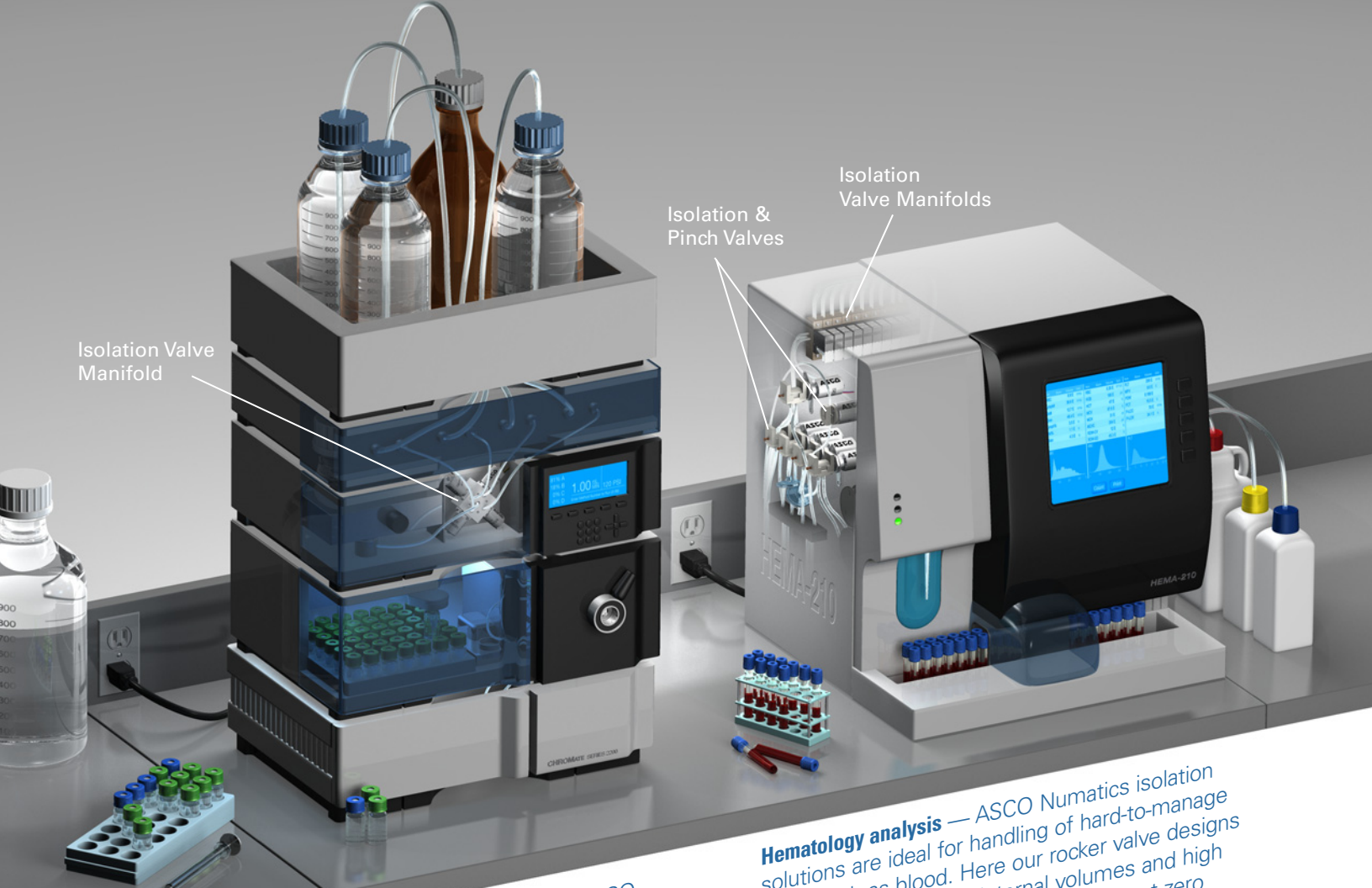
Flawless flushability. In addition to offering pinch valves with no internal volume, we designed our isolation valves via computational fluid dynamics (CFD) to avoid sharp corners and pockets — preventing or eliminating buildup and clogging.

Low or no pumping effects. Many of our designs evenly displace fluid within the valve, so you get minimal pumping. Result: fewer complicated calculations — and a lot less waste of expensive solvents, reagents, and other consumables.

Worldwide leadership

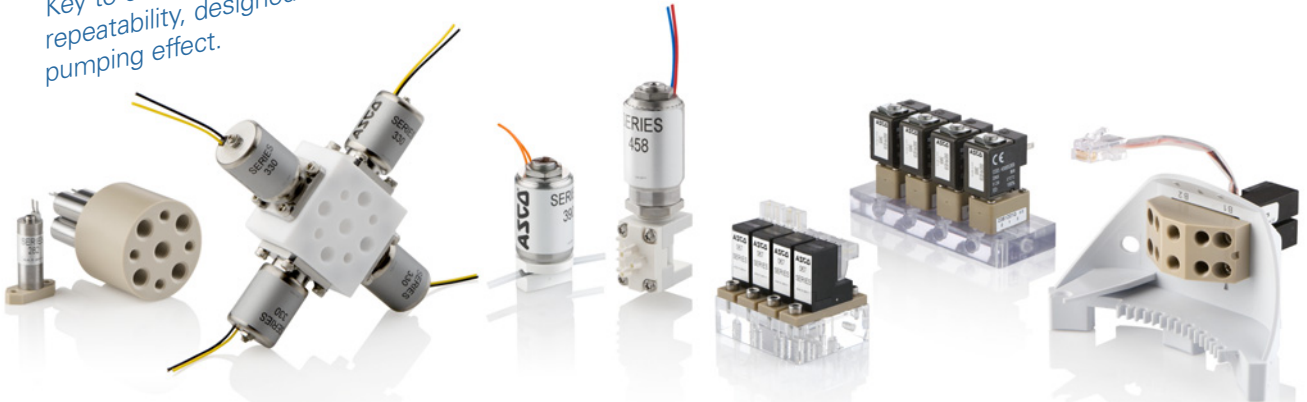
ASCO Numatics, a company of Emerson, offers comprehensive fluid automation solutions, including flow control and pneumatics products, for a wide range of industry-focused applications. The ASCO Numatics line comprises more than 50,000 valves, an extensive selection of air preparation equipment, and a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

Emerson (NYSE: EMR), based in St. Louis, Missouri, U.S.A., is a global leader in bringing technology and engineering together to create innovative solutions for customers. Emerson has approximately 133,000 employees and 235 manufacturing locations worldwide.



Liquid chromatography — Many OEMs use ASCO Numatics valves on multi-station manifolds for fast, accurate fluid handling in the solvent selection process. Key to our solutions' success here is their ensured repeatability, designed-in flushability, and minimal pumping effect.

Hematology analysis — ASCO Numatics isolation solutions are ideal for handling of hard-to-manage fluids such as blood. Here our rocker valve designs are prized for their low internal volumes and high flushability, while our pinch valves present zero internal volume plus efficient, economical access and serviceability.



Responsive engineering partnership

As markets change and requirements come into focus over lengthy development cycles, your products evolve. ASCO Numatics understands — and responds.

Unlike some suppliers, we've got the local sales and engineering resources to work closely with your team in defining your requirements. We can then select the product, match the elastomer, develop a custom manifold, and expedite delivery of the part to produce the precise performance you want.

Complete, customized fluidic solutions

Most analytical equipment designers want more than just a valve. They ask ASCO Numatics for specialized fluid automation answers to their unique application challenges.

After consulting your team, we can develop, design, build, and factory-test the solution you need. You get a complete, prequalified manifold assembly, with valves plus terminations, pins, and housings — saving you days of added costs and extra effort.

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