

Fluidics Partners, Quality Products, Innovative Solutions

Who We Are

IDEX Health & Science offers a three-fold advantage to our customers, bringing life to fluidic pathways with our products, people, and engineering expertise



Our comprehensive line of products, team of fluidics experts, and innovative engineering capabilities collectively position IDEX Health & Science as the forerunner in life science fluidics. These integrated assets work seamlessly together to enable your pathways beyond the combination of components. We optimize fluidic paths to provide the best solution for our customers.

- ✓ ANALYTICAL INSTRUMENTS
- ✓ DIAGNOSTIC INSTRUMENTS
- ✓ BIOTECHNOLOGY & LIFE SCIENCES

We are the premier provider of engineered fluidic products and related sub-systems to the life sciences market.

PRODUCTS

PRECISE MANUFACTURING

IDEX Health & Science makes thousands of best-in-class fluidic products, kits, and assemblies for instruments and lab benches. We offer the broadest portfolio of fluidic technologies available for analytical, diagnostic, and biotechnology techniques.

4,000+
Specialized Components

PEOPLE

HELPFUL EXPERTS

Across the company, we are a strong team of problem solvers that specialize in one thing—fluidics. From our commercial leaders to our engineering and production experts, every person at IDEX Health & Science is committed to precision flow, practical implementation, and long-term partnerships with our customers.

400+
Customers Served Daily

ENGINEERING

INNOVATION & ACCURACY

We are flow path experts, collaborating with you to develop innovative, application-specific assemblies that resolve your fluidic challenges. We select or customize the ideal parts, controls, and accessories to enable precision-flow, and optimize the form and function of the entire fluidic path.

3,000+
Custom Solutions

What We Do

We optimize fluidic assemblies with validated, best-in-class components, select technology partnerships, and extensive industry experience

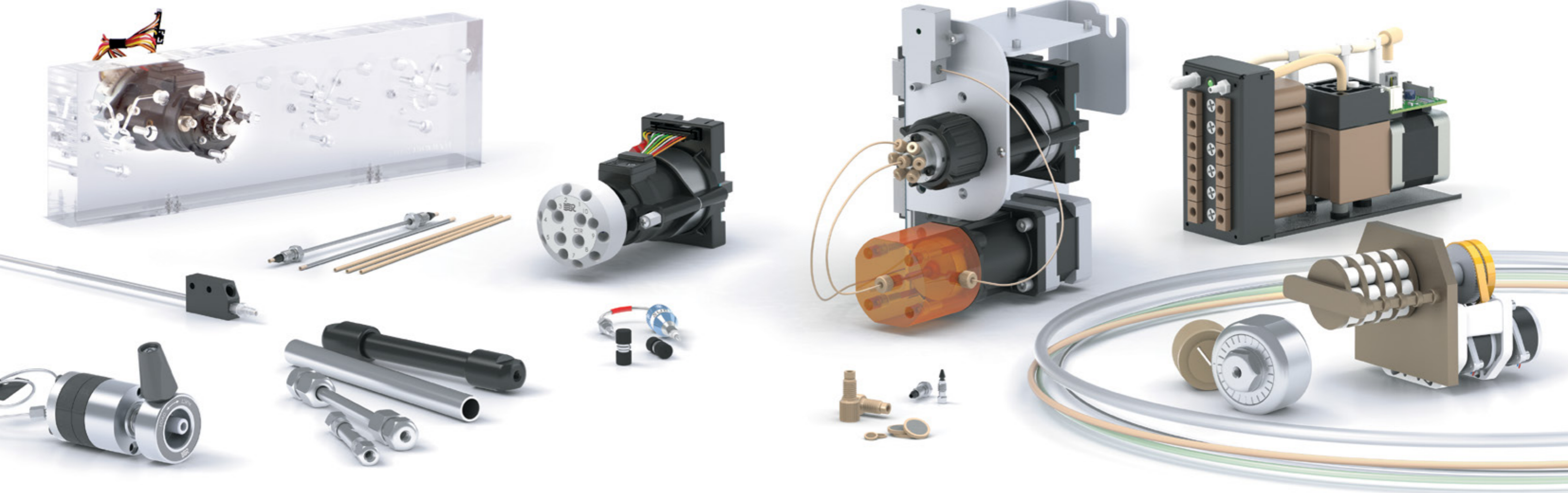
Systems demand sophisticated fluid control, making intelligent pathway optimization an essential component of instrument success. At IDEX Health & Science, we innovate and manufacture fluidic components and assemblies that work within a broad range of performance parameters to support your application from concept, to prototype, and then to final production.



Our fluidics components and solutions maximize pathway performance and provide instrument manufacturers with significant development advantages, including:

- ✓ Increased system reliability
 - ✓ Reduced development time
 - ✓ Guaranteed consistency
 - ✓ Enhanced user experience
- ✓ Increased system reliability
We collaborate with our customers to achieve instrument run-to-run reliability through serviceable interface construction, cleanly swept flow paths, and solid connections. Because we work with a diverse range of highly engineered materials, we can ensure dependability by selecting the proper material for critical locations in the flow path.
- ✓ Reduced development time
We specialize in optimizing your fluidic design so you can focus on the science. Our use of rapid prototyping tools, experience with responsive design, and ability to draw on expert product knowledge allows us to quickly advance your designs.
- ✓ Guaranteed consistency
Regardless of how many parts we build, we tightly control the quality and reproducibility of our components, manufacturing the same fluidics, every time. Our well-engineered path designs, parts kits, and components guarantee consistency instrument-to-instrument and through the lifetime of your product.
- ✓ Enhanced user experience
We have combined the highest quality components with easy to-operate, intuitive connections to enhance user experience and minimize system failure. We make components interchangeable to improve system ease-of-use.

Our Products



FLUIDIC CONNECTIONS

IDEX Health & Science has developed a comprehensive line of standard and custom tubing, connectors, fittings, and flow control devices that meet the demanding requirements of today's high-performance fluidic systems.

- › Specialty, high-performance polymers
- › PEEK-lined stainless steel tubing and components
- › Micro- and nano-scale dimensions
- › Custom forming, assembly, and kitting

VALVES

Our rotary shear valves maximize the control, automation, and sealing capabilities of your flow paths. Available valve components include actuated and manual valves, controls, kits, and accessories.

- › Flexible flow path control, automation, and sealing
- › Chemically inert, long-wearing components
- › Application-specific flow path capabilities
- › Custom material combinations

PUMPS

We offer several families of long-life precision dispense and peristaltic pumps designed for use in a range of clinical and laboratory instruments. Our products provide precision and accuracy for both small and large quantities of fluids.

- › Dispense pump volumes from 25 μ L to 5 mL
- › Dispense pump lifetimes designed for 5 million cycles
- › Panel-mount or stand-alone peristaltic pumps
- › Revolutionary independent-channel peristaltic pump

DEGASSERS

We have the largest offering of vacuum degassing assemblies for laboratory applications in the world. Our degassers reduce gas concentrations below the fluid's saturation point to prevent bubbles, improve retention time and traceability, and enhance performance.

- › Integrated, stand-alone, and in-line designs
- › Closed-loop vacuum control maintains efficiency across a range of flow rates and conditions
- › Multiple high-efficiency membranes for effective fluid compatibility

COLUMN HARDWARE

The IDEX Health & Science line of HPLC and UHPLC column systems, frits, and end fittings enable selectivity, efficiency, and high-quality separation performance in your flow paths.

- › Biocompatible materials for HPLC/UHPLC columns
- › Accessories for column protection and packing
- › Interactive online column selector
- › Custom finishes that suit specific applications and requirements

MANIFOLDS

Advanced manufacturing capabilities allow us to consolidate multiple components and functions into a single manifold, creating a fully-integrated, compact fluidic unit.

- › Fast-turn prototypes designed for manufacturability
- › Numerous choices of chemically-compatible materials
- › Integrated pumps, valves, sensors, heaters, and detectors
- › Built-in chambers for fluid conditioning

Product Innovation

WHAT OUR CUSTOMERS ARE SAYING

“ IDEX Health & Science demonstrated a powerful commitment to make their technology work...

... They accommodated changing specifications and evolving needs...

“ IDEX Health & Science produced competitively superior products...

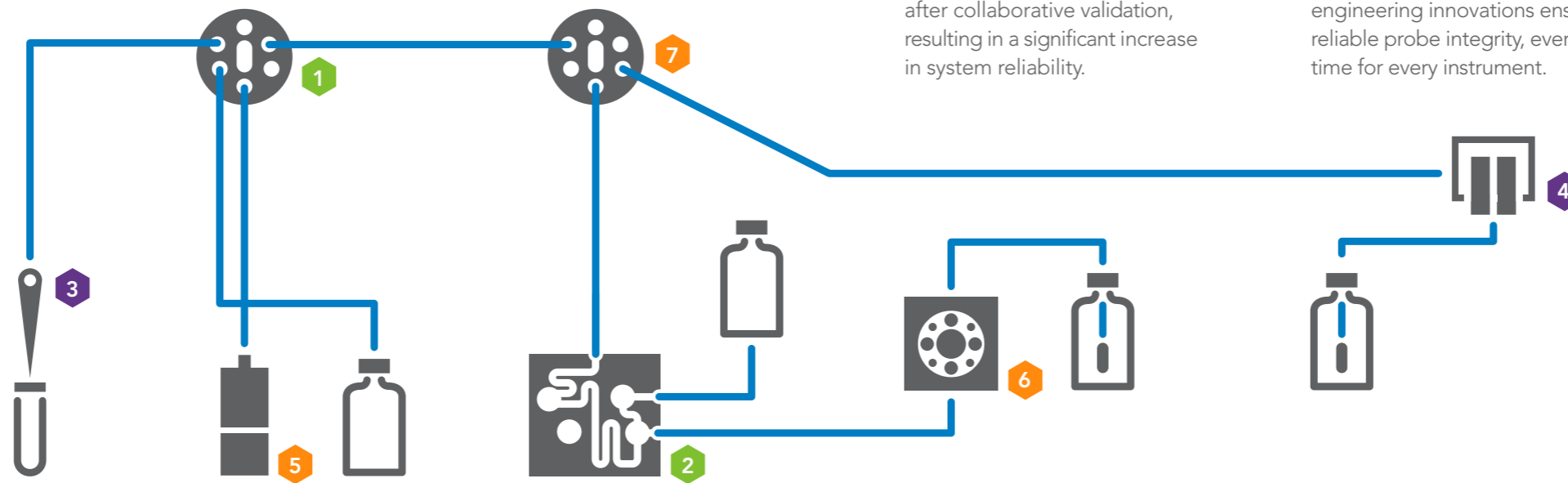
... They provided a highly customized solution that worked exactly as needed...

“ IDEX Health & Science responded with technical know-how...

... We were impressed with their ability to work quickly and accurately to uncover our core needs...

IDEX Health & Science engineers innovative components that result in optimized fluidic systems

At IDEX Health & Science, we don't just build components; we also create innovative solutions that maximize performance and enable the complete optimization of the fluidic pathway. We manufacture highly trusted fluidic products used in life science instruments that perform precise sampling, reagent handling, sample processing, and most other fluid analysis tasks.



“ We will continue to take on the most difficult and rewarding challenges in fluidics —with innovative new products and thinking.”

Kurt Pickle, Vice President of R&D and Engineering

ENGINEERING INNOVATIONS

PEOPLE

1. ENHANCED SAMPLING

Customer requirement: Minimize carryover and fluid loss during sample introduction

Our support team worked closely with the customer to teach valve operation, sample loop overflow, rinsing, and pressure equalization methods. These procedures were used in the instrument after collaborative validation, resulting in a significant increase in system reliability.

2. REPRODUCIBILITY AND RELIABILITY

Customer requirement: Highly advanced microfluidics interface

We used our expertise in engineered thermoplastics, process control, and manufacturing to create a fluidic manifold that met the demands of ultra-low-volume analysis and allowed the easy interchange of consumable microfluidic chips.

ENGINEERING

3. OPTIMIZED MATERIALS

Customer requirement: Rigid, high-tolerance sample probe arrays for biological analysis

We developed composite metal/thermoplastic probe assemblies with the strength and precision of metal and the biological compatibility of a wetted flow path. These engineering innovations ensure reliable probe integrity, every time for every instrument.

4. HIGH-PERFORMANCE REAGENT CONDITIONING

Customer requirement: Low-impact solvent degassing

Our dynamic vacuum-level control system provides optimized degassing while protecting solvent composition. The result is extremely high quality degassing with minimal detriment, that greatly enhances run-to-run reliability.

PRODUCTS

5. ULTRA-LONG LIFE PUMPING

Customer requirement: High-precision, ultra-long life, positive displacement pump for application in protein analysis

Our engineers designed a screw-driven pump with an energized seal and an ultra-smooth, ultra-hard piston that has unsurpassed life length and industry-leading precision.

6. ENGINEERED EFFICIENCY

Customer requirement: Compact low pressure, low power consumption pump for diagnostics

We created a compact, multi-channel peristaltic pump with three digitally-controlled fluid drives in a single panel-mount package. This innovative design reduces system components and provides streamlined controls for automation.

7. ENHANCED VALVE CAPABILITIES

Customer requirement: Control of multiple reagents

Our rotary shear valves provide complex flow-switching without accidental flow pumping. These features enhance applications that use multiple reagents, where carryover or accidental flow would hinder the analysis.

Targeting Your Solution

Use our collaboration path to target your fluidics solution

IDEX Health & Science is uniquely positioned to solve even the most demanding fluidic challenges in a wide array of markets and applications. From our extensive experience working with our customers, we've evolved a best-practice collaboration path to guide the optimization of your fluidics solution with expert precision. With your design goal in mind, we partner with you on the concept, modeling, design, prototype, and validation of your fluidic pathway.



Our technical resources are available to meet your laboratory needs

We provide you with a detailed understanding of your fluidic pathway, sharing our expertise through online tools, application support, and training resources.

- ✓ Full line of existing products for fluidic applications
- ✓ Extensive training literature and guides for materials selection
- ✓ Quick online response to questions and convenient technical resources on products and applications
- ✓ Helpful customer service available in your time zone

Our leading distributors support your laboratory needs by focusing on answering your questions and solving your problems. For over 40 years, our catalogs have been a trusted resource. Together, our combined resources make it easy for you to find products that optimize your fluidic path.



Global Leaders

We are a strong force of committed people and innovative products for your fluidic pathway, continually increasing our product offering, expanding our market relevance by connecting to new customers, and positioning ourselves as global leaders in fluidics engineering.

Worldwide Fluidics at IDEX Health & Science

As a global company, IDEX Health & Science has an international network of direct sales professionals and distribution partners in place to provide personal service to every customer. Our experts are ready to visit your operation, assess your fluidic needs, and develop solutions for your application challenges.

Corporate Responsibility

IDEX Health & Science is committed to preserving the environment. Our continuous improvement programs hold our facilities accountable to reduce waste, prevent pollution, and conserve resources. Many products comply with REACH and RoHS regulations.

North America

IDEX Health & Science LLC
Bristol, CT, USA
Middleboro, MA, USA
Oak Harbor, WA, USA
Rohnert Park, CA, USA

Europe

IDEX Health & Science GmbH
Wertheim, Germany

Asia

ERC KK
Saitama, Japan



3,000+

Engineered
Solutions

6

Manufacturing &
Distribution Facilities

70+

OEM Sales Pros &
Distributor Partners

For ordering and technical support, please contact:

North America CustomerService.hs@idexcorp.com | +1 800 426 0191 | +1 360 679 2528

Europe CustomerService.hsEurope@idexcorp.com | +49 1801 808 800 | +49 9377 9203-0

Asia CustomerService.hsAsia@idexcorp.com | **North Asia** +86 10 6566 9090 | +86 21 5241 5599

South Asia +91 22 66 43 55 50 | **Southeast Asia & Oceania** +65 6763 6633 | **Japan** +81 48 240 5750

© 2014 IDEX Health & Science LLC. IDEX Health & Science LLC is a Unit of IDEX Corporation.

For More
Information Visit
idex-hs.com



Fluidics for Life

Fluidic Connections | Valves | Pumps | Degassers | Column Hardware | Manifolds