

Parker Precision Fluidics

Division Overview

26 Clinton Dr #103, Hollis, NH 03049
ppinfo@parker.com
www.parker.com/ppf
(603) 595-1500



ENGINEERING YOUR SUCCESS.



Parker Precision Fluidics



Analytical Chemistry | Clinical Diagnostics | Patient Gas Delivery | Medical Instrumentation

Parker Precision Fluidics is the premier global provider of miniature fluidic components and system solutions integral to the world's life sciences. Our product portfolio includes miniature pneumatic, proportional and liquid control valves, diaphragm pumps, thermal mass flow and electronic pressure controllers, high-precision regulators and rotameters. If you require the most efficient design, production and delivery

of enabling technologies for medical devices - the answer is simple, Partner with Parker. Parker provides complete solutions comprised of a broad range of components. From the laboratory to home health care, Parker develops engineered pneumatic and liquid control valves, diaphragm pumps, pressure and flow controllers. Parker Precision Fluidics welcomes the challenging projects others refuse to undertake.

Markets Served

- Laboratory Equipment
- Field and Process Analytics
- IVD
- MDx / POCT
- Respiratory & Anesthesia
- Patient Therapy
- Patient Monitoring
- Agent Gas Detection
- Dental
- Bioreactors
- Printing
- Scent Dispersion

Our products are designed and manufactured in the USA



Our Products

Miniature Solenoid Valves

Parker provides life science OEMs with high speed miniature solenoid valves with extremely low leak rates for use in non-FDA and FDA-approved instruments. Our technical expertise combined with lean operations ensure product quality and reliability while minimizing costs.



Miniature Liquid Valves

Parker's Precision Fluidics brand of miniature inert liquid valves are known for dependable performance, compatibility with a wide range of media and operating conditions. Applications in Analytical Chemistry and Clinical diagnostics markets require a wide range of fluidic control solutions that can be fulfilled by the Precision Fluidics expertise.



Miniature Proportional Valves

Parker is the unrivaled global leader in proportional valve technology offering the widest range (0.01 LPM to 500 LPM) of miniature proportional valves to meet the needs of the most demanding precision gas flow applications for Analytical Chemistry and Clinical Diagnostics. Parker valves are known for their dependable performance and compatibility in all operating conditions.



Our Products

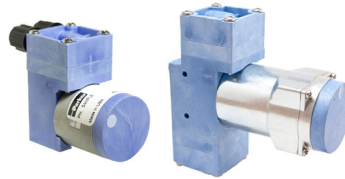
Miniature Pumps

Parker's miniature diaphragm pump line provides the highest flow per Watt available on the market. Our miniature pumps are suited for applications ranging from portable battery powered devices, such as air sampling, to laboratory and medical instrumentation. Parker also provides a full line of miniature liquid diaphragm pumps with an excellent track record in medical, scientific instruments and harsh industrial applications. The unique diaphragm design, combined with our close attention to bearing and motor design details, provides customers with substantial cost savings and reduced field service time.

Air/Gas Diaphragm Pumps



Liquid Diaphragm Pumps



High Pressure Piston Pumps



Electronic Pressure Controllers

Parker also offers a range of Miniature Electronic Pressure Controllers which can convert a variable electrical control signal into a variable pneumatic output. For customers who want to electronically regulate a pressure or a back pressure in an application these controllers deliver a complete closed-loop control in a miniature package. Sized to minimize internal volume and ease integration, these Electronic Pressure Controllers are ideal for replacing manual regulators, needle valves and vent orifices where precise pressure control is critical. Using Parker Hannifin's patented VSO® proportional valve and integral closed loop control, these units are perfect choice for carrier gas flow control, micro-fluidic flow control, vacuum pump control and dispense applications.



Our Products

Regulators

Parker offers a range of air line, pressure high flow and single-phase regulators for instrumentation, filtration, refrigeration and pneumatic applications. Instrumentation regulators are used in the process, power, oil, gas and semiconductor industries to control the flow of liquids and gases with speed and precision. Air regulators provide quick response and accurate pressure regulation for the most demanding industrial air preparation applications. Parker regulators are available as miniature, economy, compact, standard, hi-flow and pilot-operated regulators to meet a variety of service needs. The refrigeration line of pressure regulators includes valves that control inlet, outlet or differential pressure. Each regulator is available with an assortment of variations which enable one regulator to perform multiple functions. All regulators are built to the highest quality standards, recognized around the world for their performance, durability and reliability.



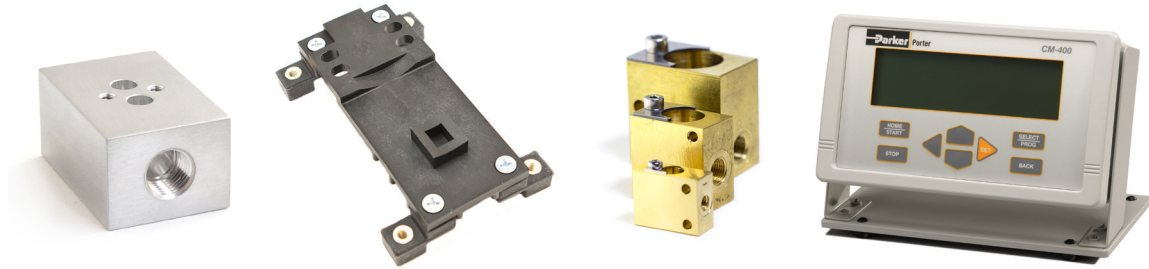
Mass Flowmeters and Controllers

Parker's comprehensive line of mass flowmeters deliver precise, dependable mass flow measurement of air or other gases. Engineered with Parker's expertise in the motion control industry, these flowmeters feature our most advanced sensor, valve and laminar flow element technologies. Providing unrivaled levels of accuracy, Parker's mass flow controllers can detect, measure and control mass flow rates, from very low to very high mass flow velocities.



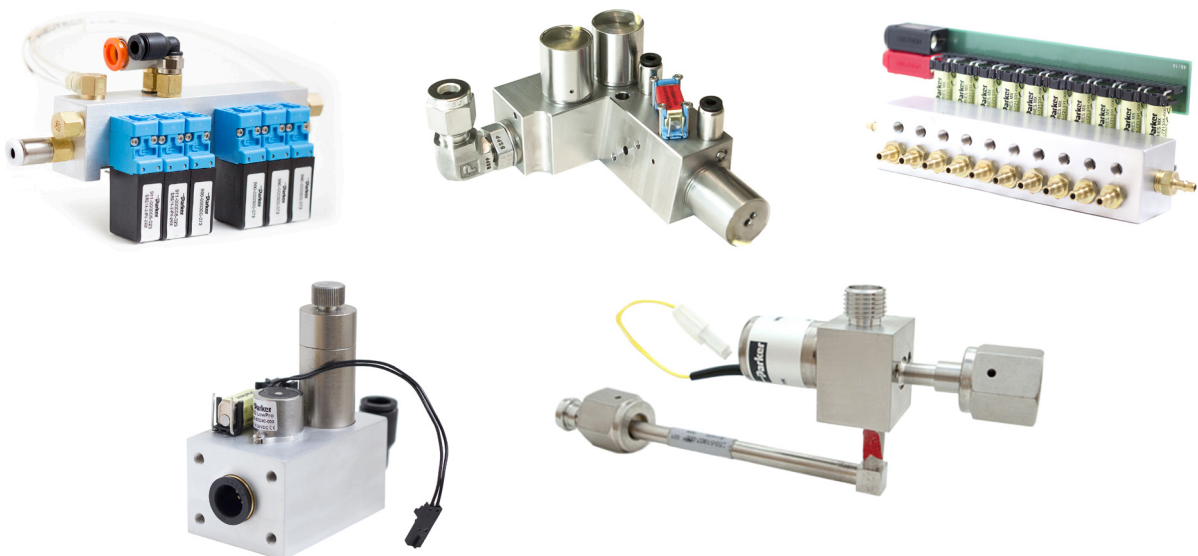
Accessories

Parker offers a full range of accessories to complement our miniature fluid components to ensure ease of integration, assembly and testing. Our accessories help increase your time to market, reduce the complexity of your supply chain logistics and minimize technical risk by ensuring every accessory is designed to work flawlessly with our product portfolio.



Systems

Parker Precision Fluidics will customize solutions and sub-assemblies to our OEM customers to solve complex instrument designs. Our unique OEM sub-system capability comes from our deep fluidic product portfolio including pumps, valves, additional control products, and our deep experience in the Analytical Chemistry and Clinical Diagnostics markets. Our system expertise reduces your time to market and delivers a unique solution to fit your specific project needs.



Customization

Parker's Precision Fluidics Division specializes in providing solutions that are optimized to your application-specific needs. While our standard products are excellent for most applications there are times when a unique solution is needed. The Customer Solutions Engineering Team at Precision Fluidics Division support customer-driven projects to provide a unique resolution tailored to meet your specific requirements. We recommend that you contact our Applications Engineers or your local Territory Sales Manager to evaluate if a custom solution would be the best fit.

Services and Other Capabilities

Analytical Clean

Some of our products are offered with the option to be oxygen, instrument, or analytically cleaned. We follow strict procedures that include instructions for the proper storage and handling of all cleaned components that are sent to the production floor, where they are assembled, tested and packaged for use in oxygen service, instrumentation & analytical applications. More information is available on request.

Manufacturing Certifications

ISO 9001:2015
ISO 13485:2016
ISO 14001:2015

Product Certifications

CE 
REACH 
RoHS 

Parker Tracking System

Parker Tracking System (PTS) is a comprehensive asset management solution featuring state-of-the-art component-tagging technology to help you stay better connected to equipment and machinery.

Our easy-to-use platform allows you to record, manage and retrieve product information fast and accurately.

Through a global network of service partners and OEMs across more than 50 countries, PTS ensures you get the replacement parts you need to drive productivity, efficiency and reliability.



Parker Tracking System

Why Parker?

Parker Precision Fluidics offers reliable fluidic, pressure and flow control products and systems to customers in life sciences, life safety and other high technology markets. As part of Parker Hannifin Corporation, a world leader in motion control technologies and precision engineered solutions, Parker Precision Fluidics operates as a lean enterprise focused on continually improving our business processes to ensure our products have the highest value and quality for the companies we serve. By partnering with Parker, you gain a single strategic supplier with multiple technologies. We offer selectable levels of integration from components to higher level assemblies. Parker Hannifin has the market and applications expertise that reduces total cost of ownership and the global footprint to service customers worldwide.

Please reach out to our technical team to find out more on how we can help increase the sensitivity of your next analytical instrument.

Below are some common specifications that are helpful to have on hand to accelerate your product selection:

- Media, Inlet & Outlet Pressures
- Minimum Required Flow Rate
- System Supply Voltage
- Media & Ambient Temperature Range

ppfinfo@parker.com

