



# Precision Fluidics Overview

Separation and Analysis Products and Solutions

aerospace  
climate control  
electromechanical  
filtration  
**fluid & gas handling**  
hydraulics  
pneumatics  
process control  
sealing & shielding



ENGINEERING YOUR SUCCESS.



# Precision Fluidics Solutions

PORTABLE. ACCURATE. RELIABLE.

By choosing Parker, you are guaranteed high quality, reliable products, market-driven innovation, and unsurpassed customer service. We know you are working hard to advance healthcare within a highly competitive environment. With our extensive technical expertise you can have confidence that Parker is working hard for you as well.

## ENGINEERING SOLUTION PROVIDERS

Parker Hannifin's Precision Fluidics Division offers much more than off-the-shelf component parts,

application-specific customization, and special testing for components. Parker also integrates the full range of its technologies into pre-engineered subsystems that reduce an OEM's technical risk, as well as lower its development cost and time. Our engineers and scientists have the industry expertise along with the manufacturing and project leadership to ensure our solutions work seamlessly in your product. We understand the fluidic requirements of your applications, which means you can focus on your core

## Precision Pumps and Dispense



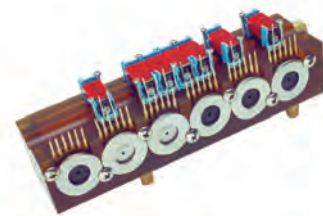
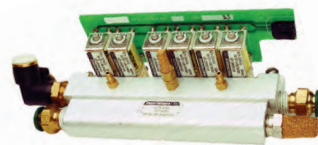
### Miniature Diaphragm Gas/Liquid Pumps

- Leading flow-to-power performance
- Variety of configurations, perfect for portable applications



### Extreme Performance Valves

- Rugged, non-corrosive stainless steel construction
- Repeatability under high pressures and temperatures
- Pulse valves and drivers for rapid response and first shot accuracy



### Fluidic Systems

- Custom manifolds, control valves, and performance testing
- Technical and operational expertise for application-specific solutions

science and technology and leave the precision control systems to us.

When we partner with customers, we get involved

convenient customer service and one point of contact.

The Precision Fluidics Division offers customers precision-manufactured,

**WITH PARKER, YOU  
KEEP TECHNICAL RISKS  
LOW AND BUSINESS  
RESULTS HIGH.**

We are a collaborative engineering partner throughout your OEM design cycle, from concept through design and production.

early in the design process to gain the greatest value from collaboration and to provide successful product integration. With a single solution provider that can design, prototype, and manufacture, you benefit from shortened design and production cycles. By working with a lean enterprise, you will simplify your procedures and enjoy

reliable parts, a diverse knowledge base of engineering experts, as well as the assistance of dedicated customer service representatives. We have the experience, history of performance, and uncompromising commitment to quality that you can rely on to meet your project schedules.

#### **Serving these applications:**

- **Gas Chromatography**
- **Liquid Chromatography**
- **Mass Spectroscopy**
- **Sample Preparation**
- **Sample Identification**

## **Precision Control**



### **Miniature Solenoid Valves**

- Light weight, low power and small footprint
- Multiple configurations available to meet specific application requirements



### **Miniature Proportional Valves**

- Superior life and repeatability
- Thermally and non-thermally compensated models



### **Active Controls**

- Integrated closed-loop control of pressure, vacuum and flow
- Eliminate costly manual drift adjustments
- Fast response, low cost high performance,

## PARKER OFFERS ITS CUSTOMERS:

- ENGINEERING EXPERTISE
- PREMIER CUSTOMER SERVICE
- A WORLDWIDE SUPPORT NETWORK

### About Precision Fluidics Division

The Precision Fluidics Division of Parker Hannifin provides precision control of inert and aggressive gas and liquid media through its full range of high performance miniature fluidic products and systems. Application-specific solutions include miniature digital and proportional solenoid valves, gas and liquid pumps, and electronic pressure control modules. With its offering of leading brand name products such as Pneutronics, General Valve, T Squared, and Hargraves, the company is a premier fluidics provider to the life sciences and medical markets. Precision Fluidics proudly meets the stringent operating requirements of OEM instrument builders worldwide. For more information, visit <http://www.parker.com/precisionfluidics>.

### About Parker Hannifin

With annual sales exceeding \$10 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets. The company employs more than 57,000 people in 43 countries around the world. Parker has increased its annual dividends paid to shareholders for 51 consecutive years, among the top five longest-running dividend-increase records in the S&P 500 index. For more information, visit the company's web site at <http://www.parker.com>, or its investor information site at <http://www.phstock.com>.

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