

# INNOVATIVE LAB INSTRUMENT SOLUTIONS for more precise identification and quantification



## One Partner. Multiple Options.

Want to deliver more accurate identification and quantification of chemical compounds? Think Parker. Our broad platform of precision liquid handling and motion control solutions – along with our ability to design and manufacture complex, integrated assemblies – enable manufacturers to offer laboratory instruments that are more reliable and produce better results.

From our Smart Syringe Pump with best-in-class resolution to liquid handling platforms, control valve assemblies, precision gas controls and more, our breadth of technology gives you the benefits of:

- Shorter design cycles for increased speed to market
- Reduced cost of ownership with higher reliability from custom engineered assemblies
- Advances that are smaller, lighter, more energy efficient, and highly reliable

Early collaboration with Parker sparks innovation and efficiency. What's more, our global footprint gives you access to an integrated, worldwide network of manufacturing plants, sales, and service.



### Innovative Solutions for:

- Gas and liquid chromatography
- Mass spectrometry
- Laboratory automation
- Sample preparation
- Microscopy
- High throughput screening
- Elemental analyzers
- Flow cytometers
- Lab-on-a-chip

### Parker Capabilities:

- Precision liquid handling platforms
- Precision gas controls
- Analytical gas generation and filtration
- Integrated assemblies
- Thermal management technologies
- Materials science, sealing and tubing solutions



ENGINEERING YOUR SUCCESS.

# Proven Solutions for Laboratory Instruments

Recognized worldwide as a leader in motion control technologies and fluid management systems, Parker is a trusted, collaborative partner of major analytical instrument manufacturers.

## FLUIDIC SOLUTIONS

### • Smart Syringe Pump

Reduces footprint and complexity by eliminating transfer lines. Mountable at point of aspirate/dispense on motion systems.



### • Proportional control valves

As individual components or part of an electronic pressure control system, flow is accurately controlled to extremely low levels.



### • Mass flow controllers

High accuracy and repeatability over a wide range of flow rates with digital communications.



### • Precision regulators

Designed for extremely precise control in low flow gas and liquid applications.



### • Miniature solenoid valves

Two- and three-way valves for extreme gas and liquid applications.



### • Miniature pumps

Generate gas pressure, vacuum or configure for liquid waste removal.



## MOTION CONTROL SOLUTIONS

### • Linear mechanics and controls

Position systems for handling of plates, gel cards, samples, and reagents.



### • Frameless kit servomotors and controls

Autosampler motor and control solutions.



### • Xpress HMI panels

Configure instrument tests; display results.



## FILTRATION AND GAS GENERATION SOLUTIONS

### • Analytical gas generators

Safely provide high purity gases for all types of analytical instruments.



### • Filtration products

Remove contaminants, preventing cross-contamination of samples.



## MATERIALS SCIENCE: SEALING AND TUBING SOLUTIONS

### • Parker materials

Our family of materials has unique formations that deliver high performance in a variety of environments.



### • O-rings

Can be molded in a wide range of compounds with hardness from 30 to 95 Shore A.



### • Over-molded seal assemblies

Engineered seals and sealing systems consisting of elastomers bonded to metal and plastic substrates.



### • Dynamic seals

Custom-machined and spring-energized PTFE seals.



### • Chemically-resistant tubing

PFE and PFA tubing offers exceptional heat resistance with excellent chemical and corrosion resistance. Available in ultra-pure resins.



## CONNECTOR SOLUTIONS

### • Push-to-lock

Nickel-plated, stainless steel, or plastic fittings that are leak-tight and easy to assemble.



### • Analytical fittings

An assortment of A-LOK® and VacuSeal™ instrumentation compression fittings in a range of materials.



## ELECTRONICS PROTECTION AND TESTING

### • EMI shielding

Conductive elastomers, EMI shielded housings, conductive elastomeric and low closure force materials, shielding laminates, and conductive plastics.



### • Optical display products

EMI shielded and unshielded windows, shielded touchscreens, optical bonding, and display protection.



### • Thermal management

Thermally conductive and thermal gap fill materials.



### • Test and certification services

EMI/EMC and safety evaluations for U.S. Low Voltage, UL, and CSA.

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