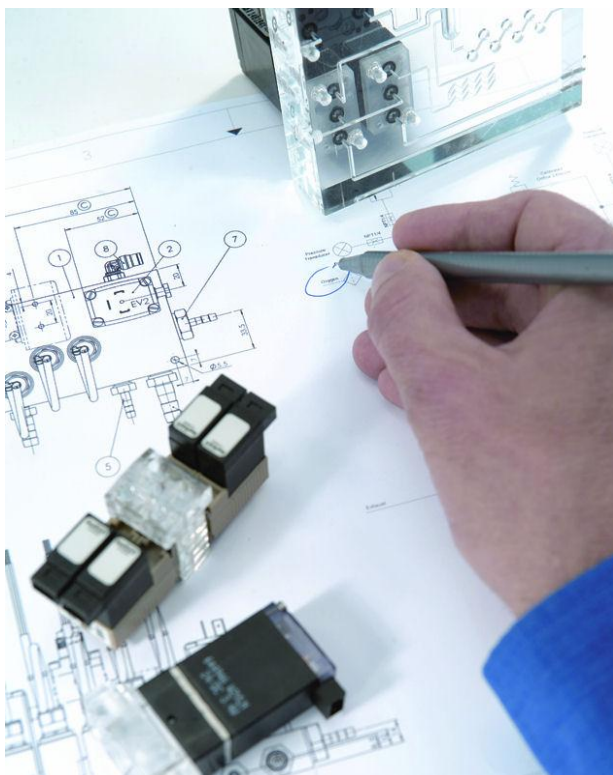


burkert

Burkert Life Sciences



MicroFluidics

Twin Power Tec

Smaller, Lighter, Energy Saving



Twin Power

A Breakthrough in Solenoid Technology
“Twice the Power, Half the Size”

Our team of engineers invented a patented dual solenoid coil system that you will not find anywhere else on the market.

“Twice the Power” gives you the flexibility to increase your flow, pressure, throughput and safety without increasing the size of your solenoid valve.

“Half the Size” gives you the flexibility to decrease the size of your valve and your instrument - saving you space, time and cost while maintaining performance of valves twice the size.

Twin Power Rocker Valves

We enhanced our industry leading Type 127 Rocker valve and combined it with our “Twin Power” Technology to bring you the most advanced Life Science valve in the market today.

Our already high quality and reliable Rocker valves were re-engineered to increase the robust nature of the fluid separated diaphragm, decrease internal and dead volume, reduce the manifold footprint and add power-saving electronics, LED, latching and other special features now available as a standard.

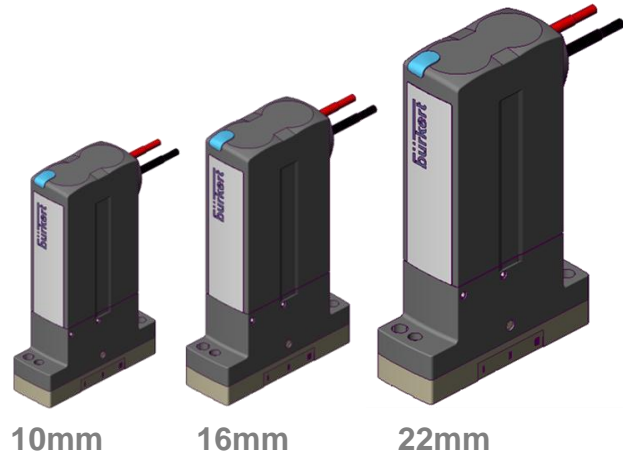
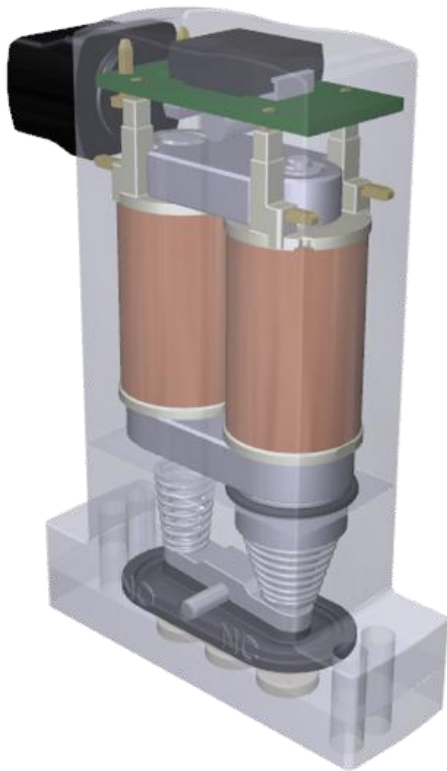
Let our team help you design the Burkert Twin Power Rocker into the heart of your next generation instruments, or re-engineer your current instruments for ultimate performance and lower total cost.

Take advantage of this breakthrough in technology and start your next generation platform by selecting from our line of Twin Power Rocker valves: 10mm, 16mm and 22mm.

Smaller instruments, more space for other components, less power, less heat, higher performance, increased profitability, ease of assembly and maintenance, lower total cost of ownership...

The Twin Power Rocker valve is the best choice to keep your next generation fluid handling systems innovative and ahead of the competition.

Technology



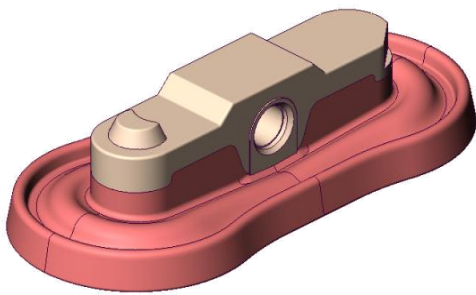
10mm

16mm

22mm

Benefits of the Twin Power coil design

- Robust Construction
- Enhanced IP/Nema Protection
- High chemical resistance of the coil housing
- Electrical connection options: flying leads, rectangular plug, circular plug
- With or without power saving “Hit and Hold” electronics
- Less Power Consumption, Less Heat
- Latching Function
- Enhanced LED



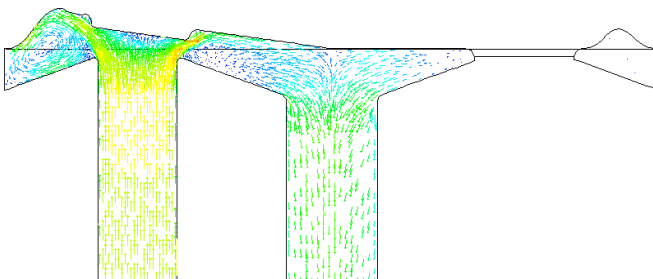
Re-Engineered Features

Fluid Separated Diaphragm

- More Robust
- Improved sealing from fluid cavity to coil

Fluidic Body

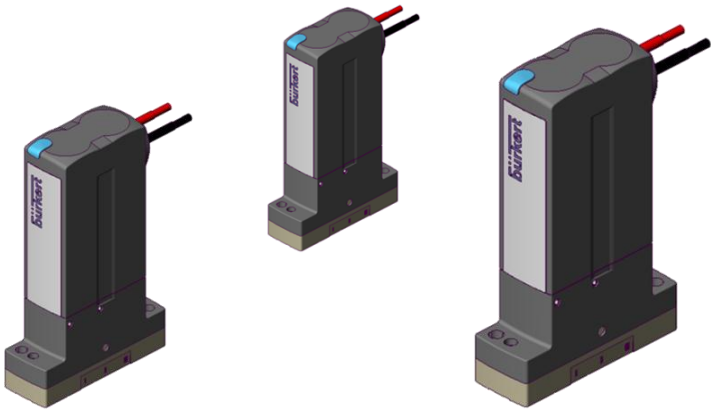
- Variety of standard molded bodies
- Advanced geometry to reduce dead volume/carryover
- Lower internal volume
- Valve can be installed directly on manifold without valve body
- Easy to open and inspect sealing area



System Solutions

World Leader in Customized Systems

From NEW and Innovative Quality Components...



Extensive range of
fluid separated valves
and pumps



Flipper Technology

Ideal for dispensing/dosing

- Valve Sizes from 4.5mm wide to 32mm wide
- Fast and repeatable response times
- No pumping
- Lower power consumption
- High Back Pressure

Rocker Technology

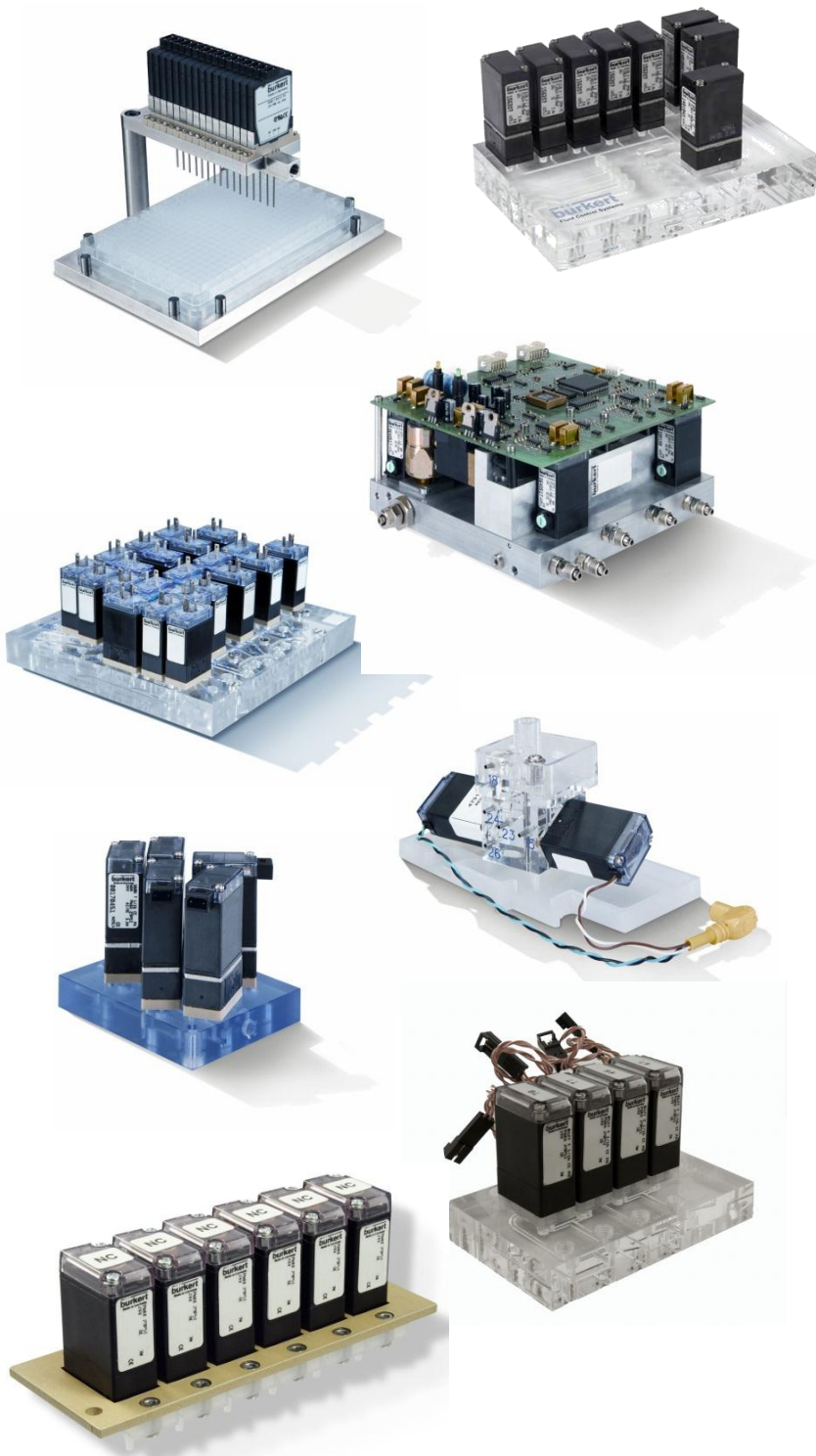
Ideal for cleanability

- Valve Sizes from 10mm to 22mm wide
- Long service life
- Low dead volume/Low carryover
- Low internal volume
- High backpressure
- Manifold Design Flexible

Solenoid Driven Micro Pump Technology

- Self Priming
- Wetted parts Peek and FFKM
- Dosing system for adjustable μ L dispensing from 1 μ L to 5 μ L per cycle up to 5ml/min
- 10mm design for continuous pumping up to 5ml/min

...to Fully Customized Solutions



Customized System Solutions

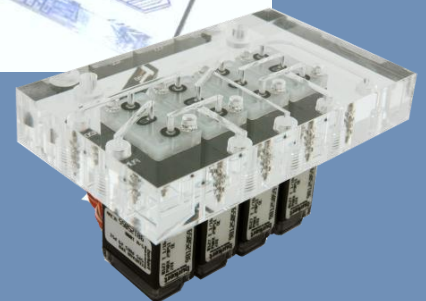
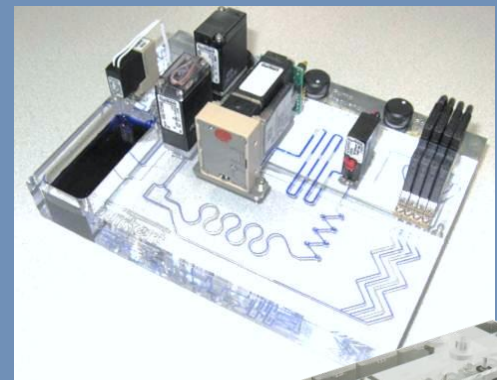
Customer specific design, manufacture, assembly, test, ordering, packaging, stocking and shipping

Specializing In:

- Consulting, Design and Fluid System Integration
- Complete fluidic systems, sub-assemblies to simple value-added products
- Manifolds: machined, molded, bonded, sandwich... from all materials plastic and metal
- Sheet metal bracket assemblies and enclosures
- Machined and molded parts

Integration Including:

- Valves, Pumps & Sensors
- Fittings, Needles & Tubing
- Electronics & Connectors



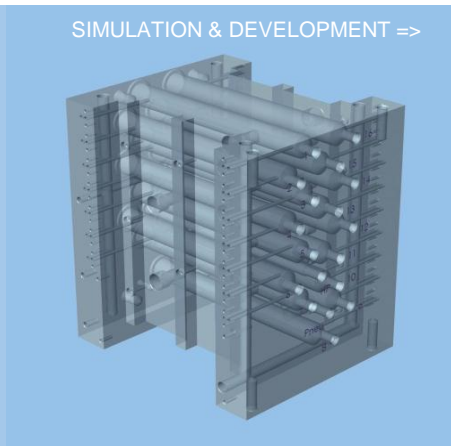
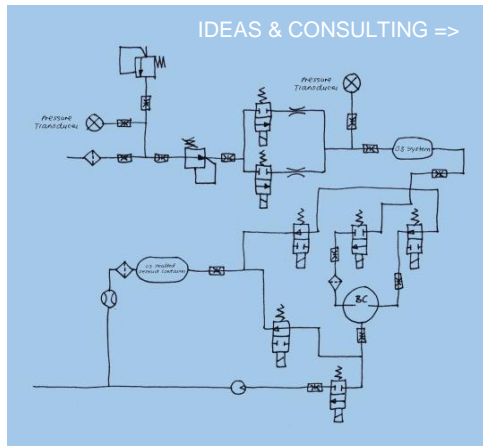
Systemhaus Ca

Experience, Closeness, Courage

Our Systemhaus capabilities and years of experience enable our team to specialize in a wide variety of customized fluidic solutions from simple valve modifications and machined and injection molded plastic parts to complex fluidic assemblies including valves, pumps, sensors, software, higher level communication and more.

Your idea ignites a team of experienced engineering consultants, a foundation of the most Robust and Innovative fluid handling products, in-house capabilities designed especially for prototyping, manufacturing and testing; all dedicated to providing Life Science instruments, service and support for the life of your custom system solution.

Our goals are your goals. Innovation, Reliability, Manufacturability, Serviceability, Cost..... Let our team partner with you for your Next Generation Fluidic System.



Capabilities

We are your system integration partner of choice from concept to reality. Utilizing the most reliable liquid and gas products and systems including: solenoid valves, proportional valves, micro-pumps, mass flow controllers, gas boxes, manifolds, combined with ISO approved design, assembly and testing.

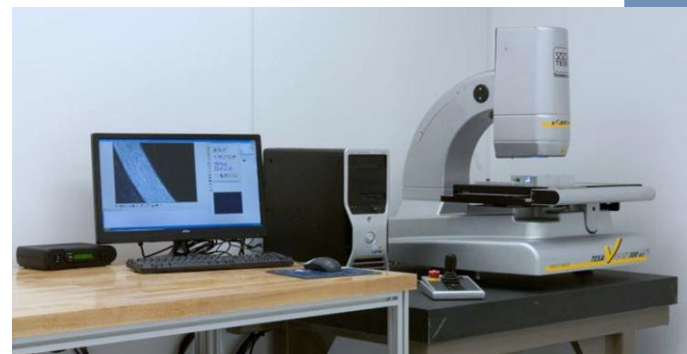
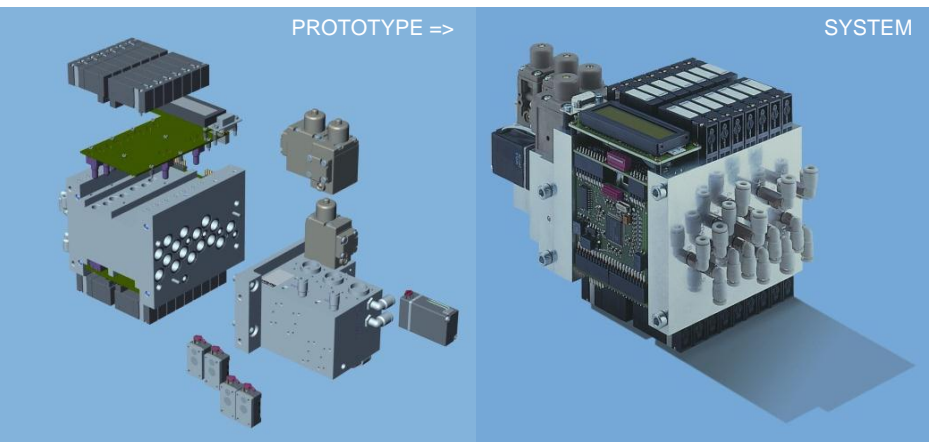
Burkert's team is well equipped to fully understand Next Generation requirements for innovative designs, lean manufacturing, packaging and quality.

- Design Engineering Team
- Project Engineering
- MFG and Quality Engineering
- Assembly and Automated Testing
- Clean Room Assembly and Testing
- Machining, Molding, Enclosures
- In House Reliability Testing Services

SOLUTION PROVIDER SERVICES

Seamless Phone coverage from 5 AM to 5PM PST
 Engineering Design, Technical Expertise, Sales and Service- East and West.
 Kanban-JIT Inventory Services East and West Coast
 Single Source for Pneumatic and Liquid Valves, Pumps and Sensors
 Value Added/Pre-tested Assemblies:

- Bagged, Tagged, Kitted,
- One Part Number Ordering,
- Secure Custom Part Numbers



Our CNC inspection area meets the NIST H143 standard

Burkert Fluid Control Systems

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