

Burkert MicroFluidics



Burkert Fluid Control Systems

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burkert
FLUID CONTROL SYSTEMS

Burkert MicroFluidics

Precision for Low Volume Applications

Customized System Solutions

Technology cannot afford to stand still. Next generation instruments demand higher throughput, smaller sample sizes, less reagent consumption and compactness. Micro-fluidic components are a key factor to growth in this dynamic market. As manufacturers have been working aggressively to cut costs and reduce their supplier base, we at Burkert have been insistently expanding our value added capabilities in fluidic and electronic systems and services.

Burkert partners with our customers from concept to manufacture – keeping reliability, manufacturability and serviceability at the forefront, while continuously looking for ways to reduce costs and total cost of ownership over the life of their instrument. We lead the industry in micro-fluidic products, systems and solutions exclusively for instrument manufacturers in market segments including:

- Clinical Diagnostics
- Drug Discovery
- Genomics
- Life Science
- Medical Instrumentation
- Pharmaceuticals



Precision Valves

Type 6604 – 10 mm Flipper

Direct acting, 2/2 or 3/2 way solenoid valve with fluid separation. Unique Flipper design provides fast and repeatable response times that are ideal for dosing low volumes. Vacuum to 42 psi. Low power consumption, battery operation, latching coil, ability to handle high back pressure. PEEK bodies and Simriz® seals for handling aggressive fluids for analyzers, fuel cells and ink jet printers.

Type 127/6606 – 16 mm Rocker

Direct acting, 2/2 or 3/2 way solenoid valve with robust separating diaphragm. Original Rocker design provides low dead and internal volume to minimize cross contamination. Vacuum to 140 psi. PEEK, ETFE, Simriz®, EPDM, 1/4"-28 UNF. Ability to handle high back pressure. Valve of choice for critical applications in Clinical Chemistry, Immunology, Hematology, DNA analyzers, Drug Discovery.

Type 6608 – 22 mm Flipper

Direct acting, 2/2 or 3/2 way solenoid valve with fluid separation. Easily flushable fluid paths. Compact design. Vacuum to 140 psi. PEEK, Simriz®, EPDM. Ability to handle high back pressure and large particles. Proven design for critical applications in Clinical Chemistry, Renal Dialysis, Hematology, DNA analyzers, Drug Discovery.



Type 124/121 – 32 mm Flipper

Direct acting, 2/2 or 3/2 way solenoid valve with fluid separation. Very robust construction and for handling aggressive and contaminated fluids. Ideal for instrument waste lines. Vacuum to 230 psi. Back pressure tight. PVDF, PP, 316SS, Simriz®, EPDM, FKM. Ideal design for applications in Clinical Chemistry, Renal and Re-use Dialysis, Hematology, Automotive.

Micro Pumps

Type 7604 – Micro-pump

operates on the principle of a self-priming diaphragm pump and was specifically developed for the continuous pumping of small quantities of aggressive, inorganic or biological media.

Type 7616 – Micro Dosing Unit

is ideal for the precise dispensing of quantities in the μ l-range. The unit, which operates on the diaphragm principle, features high repeatability. The delivered volume can be adjusted via cycle rate or stroke adjustment. The use of PEEK and FFKM as wetted materials only facilitates its use with aggressive fluids.