

Bürkert Pacific

**bürkert**  
FLUID CONTROL SYSTEMS

# AT A GLANCE

## **Bürkert Fluid Control Systems: the Smart Choice.**

Bürkert Fluid Control Systems has more than 25 years history serving the fluid control and automation needs of key industries in Australia and New Zealand.

With six branch offices and numerous additional operations offices scattered throughout the region, Bürkert meets you in key industrial and processing centres to gain a hands-on understanding of industries and market applications.

Our technical sales engineers are trained to apply their knowledge of industries and fluid control applications, linking our German engineered and manufactured valves, sensors and network products to your process needs.

With more than 50% of our regional work force focused in the technical arena, you can see that Bürkert considers its commitment to technical excellence to be paramount, and a key component of our value offering.

Building on this solid foundation of world-class technology products coupled with considerable local industry know-how, Bürkert has fast established a reputation as an innovative provider of customised system modules for OEM manufacture and end-user process automation systems.

With offices in more than 40 countries internationally and operational outposts in an additional 80, Bürkert is a major organisation catering to the food & beverage, water and waste stream, environmental, mining, winery, pharmaceutical and biotechnology industries. A privately owned and operated company, Bürkert maintains a flexibility and adaptability which encourages closeness to your way of thinking and responsiveness to your needs.

Please enjoy 'Bürkert: At a glance', contact our dedicated technical sales engineers with further enquiries, and find out why Bürkert is the Smart Choice in Fluid Control Systems.





## Solenoid Valves

### Compact Valves

Bürkert's compact and low weight solenoid valves are easy to install and designed to handle neutral, slightly aggressive fluids and steam up to 180°C.

The valve bodies are available in brass, stainless steel or thermoplastic, with threaded or manifold mount port connections. The range features multi-position solenoid coils that are interchangeable (AC or DC) without disturbing the valve body. A lockable manual override option is also available.

### Zero-Differential Valves

Offered as both direct acting and pilot assisted, Bürkert's zero-differential valves have a long life cycle. This is largely due to the robust design involving corrosion resistant features,

**Bürkert offers solenoid valves certified to SIL3, and Explosion Proof EX Solenoid Valves.**

multi-position coils and water-hammer-free operation. Zero-differential valves from Bürkert are designed to handle neutral, slightly aggressive fluids and steam to 180°C.

### Isolating Diaphragm Valves

Bürkert diaphragm valves are designed to handle contaminated fluids, and offer long life cycle and trouble-free operation with minimal maintenance.

Available in brass, stainless steel or thermoplastic bodies, diaphragm valves come with separating diaphragm made from NBR, FKM, EPDM or FFKM which isolates the solenoid system from the operating fluid. Lockable manual override is standard in these valves, with electrical feedback signaller and threaded or manifold mount port connections available.





## Process Valves

Developed to handle the unique challenges of hygienic and sterile applications, Bürkert offers diaphragm valves with precise material formulae and physical tolerances. The valves are available in a wide range of materials certified for food and beverage, biotechnology, pharmaceutical and cosmetic industry applications.

All Bürkert diaphragm valves are rigorously tested during development and production to ensure reliability in critical processing environments, and are available with accessories including stroke limiters, handwheels, electrical feedback sensors and pilot valves.

**Bürkert offers complete ranges of:**

- Diaphragm Valves
- Globe Valves
- Angle Seat Valves
- Quarter Turn Valves



### Top-mount or Side-mount Position Control

Bürkert is unique in offering all valves with innovative positioners/ controllers for continuous process control. These intelligent electro-pneumatic controllers can be specified with a variety of options, and include smart features to minimise air use, setup and configuration time. Non-Bürkert valve products can be converted, with the same control and air saving benefits.

Features include voltage and current inputs, autotune for commissioning setup, pre-programmable characteristic curves and self-linearisation. Integral PID controllers with remote setpoint capability are available. Bürkert valves are optimally suited to use with leading industrial network infrastructures, including Profibus DP & PA, DeviceNET and HART protocols, plus ATEX/IECEx approved variants for hazardous areas.





## Pneumatic Actuation

Bürkert's pneumatic actuation systems offer direct mounted pilot solenoid valves, and remote mounted valves and valve islands.

The remote valve islands are modular and DIN rail mounted. They are high flow 3/2, 5/2, and 5/3 with integral push-in fittings, LED indication and manual override. All major Fieldbus protocols such as Profibus, DeviceNet, Interbus, CANopen and Ethernet are available, as are network protocols designed for hazardous areas such as Ex(m) and Ex(i).

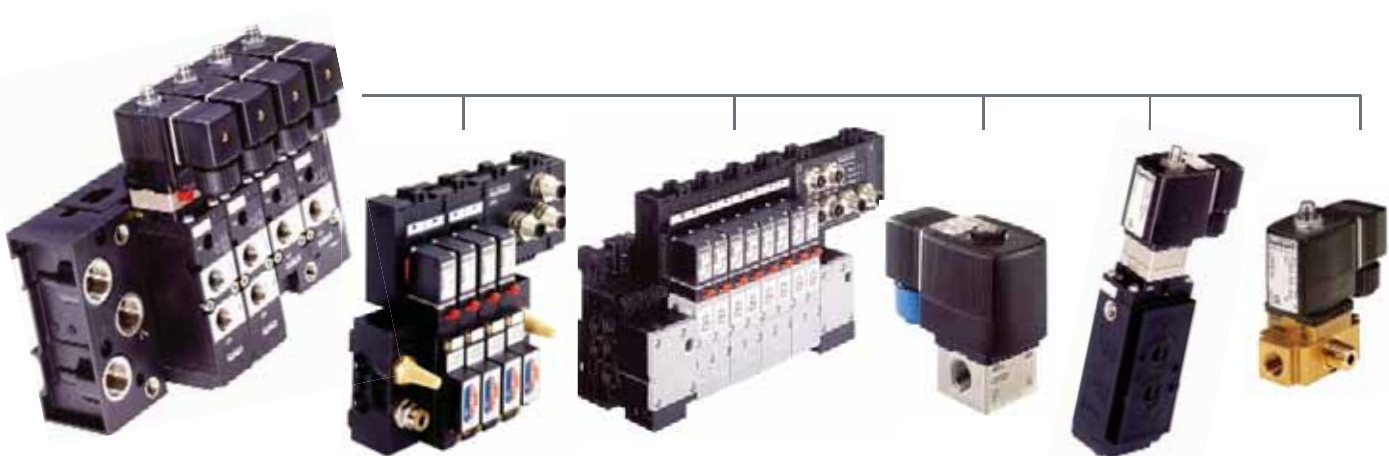
Bürkert also offers high space efficiency, with double-mounted pneumatic valves which take half the space of other models. These small pneumatic valves deliver space savings for tight fits, with all the functionality of other models.

A full range of accessories is available from Bürkert.



Bürkert offers complete ranges of:

- Banjo Pilot Valves
- Namur Interface Banjo Valves
- In-line Valves
- Manifold Valves
- Valve Islands





## Process Control Instrumentation

As a single-supplier of comprehensive process control solutions, Bürkert offers a superior range of instruments and sensors for flow, level, analysis, pressure, temperature, and more.

Systems are available for batching, pH and chlorine control.

Bürkert instruments are designed for use with hygienic applications as well as more demanding aggressive fluids, and cover a wide dynamic range.

With a modular design, Bürkert sensors are designed to be flexible to your application and needs, with customisation within minutes from standard sensor components. This flexibility includes sensor availability in a variety of body materials, styles and measurement principles.

**Flow instrumentation:** including paddle wheel, magnetic-inductive and positive displacement sensing principles.

**Batch intelligence:** adding flow sensors with our world class valves, Bürkert makes batching systems for all applications.

**Analytical instrumentation:** including pH, conductivity and ORP.

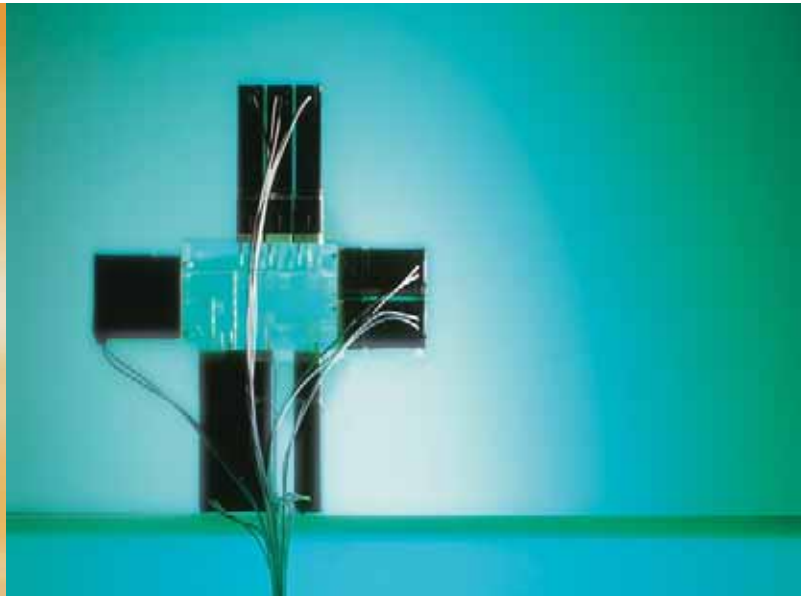
**Temperature instrumentation:** sensor-switch combination devices with either direct mounting or remote display mounting for ease of access. Also digital and analogue panel mounted controllers.

**Level instrumentation:** Highly precise ultrasonic transmitters, using Bürkert EasLink and other communications protocols. Wall or panel mounted, and compact versions.

**Pressure instrumentation:** low-cost to high spec.

**Controllers:** Intelligent Bürkert PID controllers that integrate with valves, positioners, instruments and modulating solenoids.





# Mass Flow Control & MicroFluidics

## Mass Flow Control

Bürkert Mass Flow devices, controllers and meters, operate independent of pressure, temperature and density. Using in-line and bypass sensors, Bürkert Mass Flow devices offer highly accurate, repeatable and fast response.

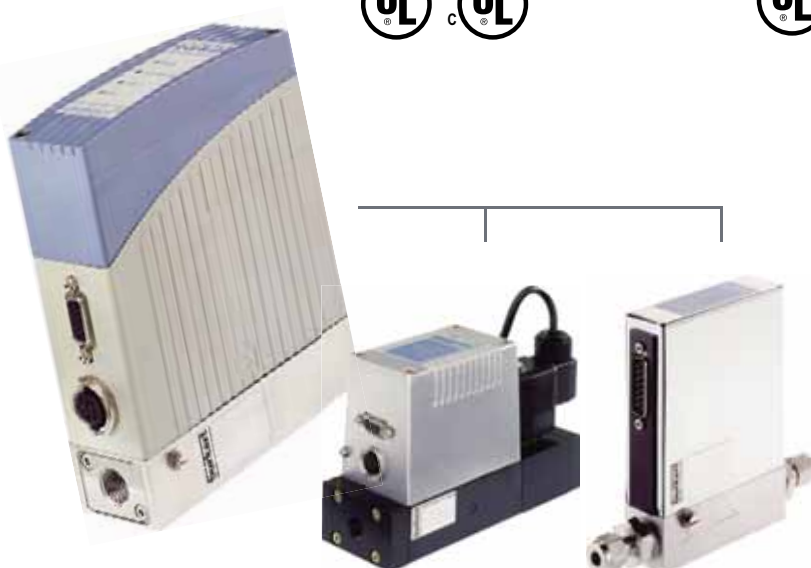
Ranging in flow from 20-1500 litres per minute (full-scale), Bürkert Mass Flow devices can control flow rates down to 0.4ml per minute. Units include standard analogue signal outputs and RS232 and RS485 interface for configuration and testing.

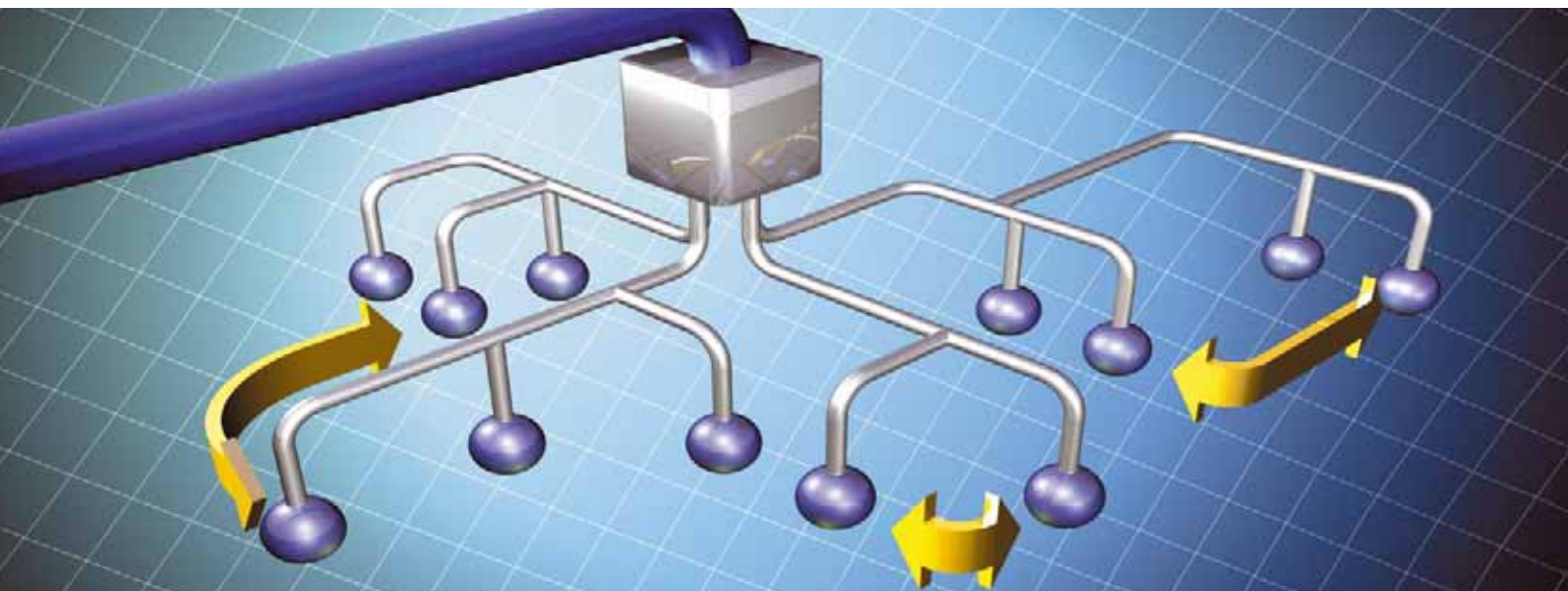
Models are also available in DeviceNet and Profibus for direct integration with control systems.

## MicroFluidic Valves & Pumps

Bürkert's compact MicroFluidic range of valves, pumps, sensors and controllers are suitable for a wide range of functions including dosing, dispensing, flow control, batching and pressure control.

Available in PP, PVDF and PEEK as well as Stainless Steel, Bürkert's micro-range is rated for neutral to pure aggressive organic and inorganic fluidic media, and certified for use in high-grade, hygienic and hostile environments to 55°C. Isolating diaphragms are available in FKM, EPDM or FFKM. Many units are bidirectional, to enhance flexibility of system design, with standard and custom manifold designs available.



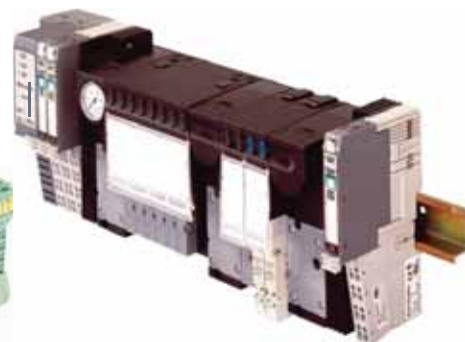


## Network Systems

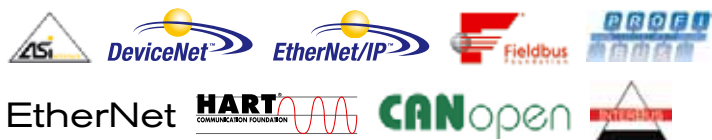
Bürkert's AirLINE sets a new standard for distributed valve and cluster intelligence systems. Its modular design combines pneumatic and electronic modules such as analogue and digital inputs and outputs, and specialty modules including RS232, ASI Master, High Speed Hz.

With absolute flexibility built in, AirLINE scales to your needs and integrates with the Fieldbus interface of your choice.

A key advantage of AirLINE is the addition of unlimited pneumatic outputs, making possible complete plant automation systems that are operated from a single network node without limitations. This factor reduces complexity and install times, as well as drastically decreasing total costs (typically 40%).



AirLINE facilitates trouble-free network upgrades, allowing add-ons without disturbing existing site infrastructure. AirLINE also carries Hot Swap capability. System design can further be enhanced with the addition of integral control software in the remote nodes. This software meets IEC61131-3 standards and enables complex control.



### Bürkert Alliances:

- Wago
- Phoenix
- Siemens
- Beckhoff
- GE Fanuc
- Rockwell Automation [Encompass Partners]



Bürkert customises products and modular systems, combining valves, sensors and control devices to answer your process needs. Bürkert - the Smart Choice in Fluid Control Systems.

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