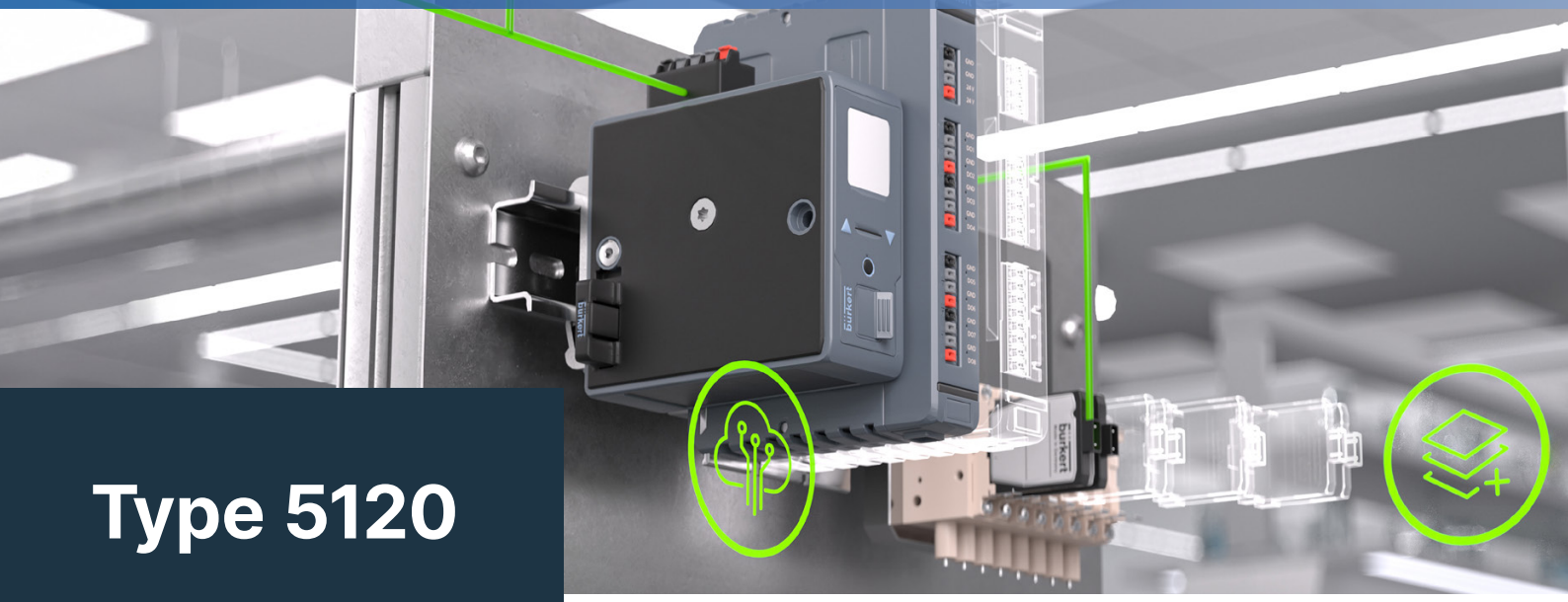
Pioneers of Flow.

bürkert
FLUID CONTROL SYSTEMS



Type 5120

Precision meets efficiency:
Systematic time-pressure dosing

Bürkert: Your contact for innovative system solutions for efficient dosing processes in your applications in the life science industry, in-vitro diagnostics, or in the pharmaceutical and biotechnology industry. Our Type 5120 is a system solution for an open-loop dosing process and includes all components from the dosing head with dosing needles and electronics to the interface for industrial communication for efficient automation of the production process.

In modern laboratory and medical technology, every microliter counts – as does every second. Bürkert's time-pressure dosing offers an innovative solution for precise, fast and reproducible liquid dosing. The Type 5120 offers a ready-to-connect system solution that supplies all components from a single source – for maximum process reliability and efficiency.

High-precision dosing of liquids with time-pressure dosing

With this principle, the medium (e.g. a sample or reagent) is not pumped mechanically, but is conveyed using pressure from a storage container to the dosing needle via a valve. The amount of liquid dosed is controlled by two parameters:

- Pressure in the storage container
- Time during which the valve is open

This means that the higher the pressure and the longer the valve is open, the more liquid is dosed. Conversely, even the smallest quantities in the microliter range can be dosed precisely by finely adjusting the pressure and opening time. Compared to mechanical dosing methods, dosing processes are highly reproducible, dosing quantities can be flexibly adjusted and sample throughput can be increased, while at the same time ensuring media integrity and contamination-free dosing processes.

Your advantages

- High precision
- Simple start-up
- Usability
- Cost-effective solution from a single source

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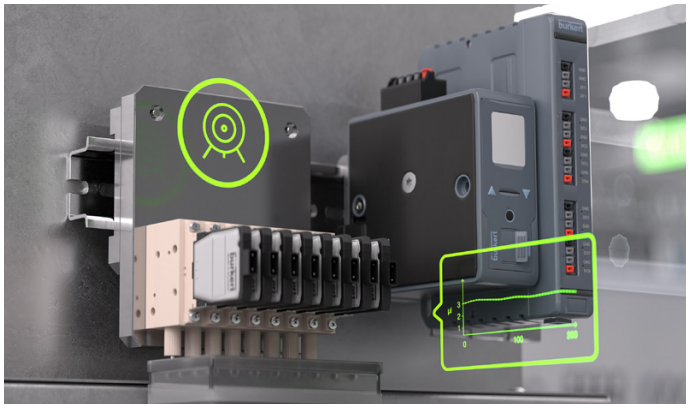

Precise dosing for your application – drop by drop

Flexible dosing instead of manual adjustment
Traditional dosing systems in the laboratory are often rigid and require tedious manual adjustments if the dosing quantity needs to be changed. With the Type 5120, this is now a thing of the past.
Thanks to the intelligent time-pressure dosing and simple PC operation, the desired dosing quantity can be set quickly and precisely via teach-in – without any mechanical readjustment. Once referenced, target volumes can be flexibly adjusted – on demand, at any time and without effort.
The result: maximum flexibility, fast changeovers and high process reliability – ideal for dynamic laboratory environments.

Our Type 5120

Discover more here:

Simple expansion instead of costly maintenance
Static dosing systems often require intensive maintenance and are difficult to expand. The Type 5120 sets new standards: thanks to its high degree of modularity, components can be quickly replaced and the system flexibly expanded – as required. This not only reduces downtime, but also increases the availability of your system.
Whether you're maintaining, upgrading or modifying – with our Type 5120, you remain flexible and productive.

Did you know?
In addition to the 5120 standardised system, Bürkert also offers standard components for pressure generation and control in the media container. You get everything from a single source from just one supplier – quickly, easily and perfectly coordinated.

Looking for an individual solution?
With our manufacturing and injection moulding expertise, we support you in the development of your individual system solution – compact and perfectly matched to your device without having to forego the proven quality of Bürkert's standard components.

Time-pressure dosing in the lab

Discover how Bürkert's time-pressure dosing can revolutionise your in-vitro diagnostics processes – with precise dosing, high reproducibility and flexible system integration.

The complete package for analytical devices

Bürkert offers a whole range of solutions for laboratory analytical devices, including innovative, customised system solutions. Discover our portfolio.

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