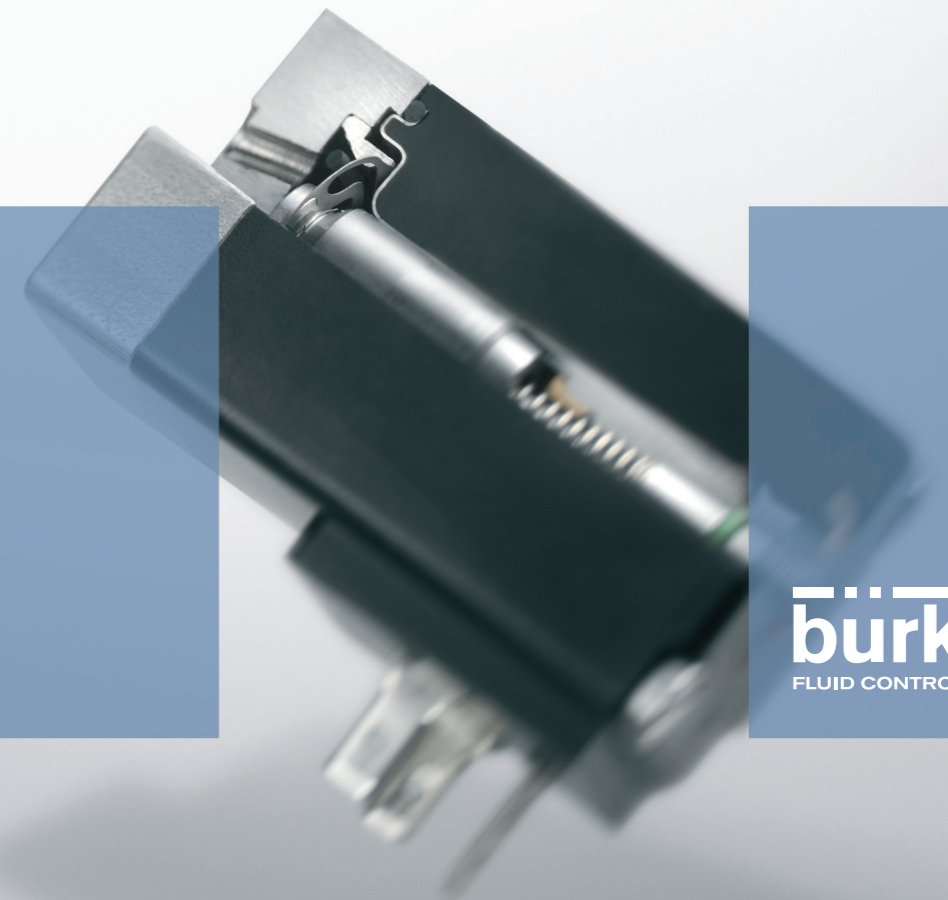


Top-rate Accuracy and Dynamic Response  
The new Bürkert proportional valves with shaped spring



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- Excellent control response
- Optimized for extremely low flow rates
- High dynamic response
- Low hysteresis
- Low-wear due to shaped spring

## Dynamics Redefined

The new Bürkert proportional valves with shaped springs set the current performance standard in the gas handling and medical engineering sectors. Without any performance loss, they operate almost silently and offer maximum accuracy and dynamic response. And the performance lasts: the long service life of the new generation of proportional valves speaks for itself and for the innovations developed by Bürkert, the market leader.

### Precise, Rugged and Long-lived

The new proportional valves with compact, flange-mounted coils ensure superlative stability. Even when subject to pressure loads and vibration, the new armature design featuring a shaped spring offers high repeat accuracy, low friction and prevents the so-called stick-slip effect.

### Minimal Flow Rates Precisely Under Control

Type 2822 is a proportional valve for minimal flow rates, uniting excellent response sensitivity and a measuring span better than 1:1000 with low electrical power consumption, low-noise operation and consistent performance over a long lifecycle. The impressive fluidic performance data is achieved by the frictionless guidance of the solenoid armature and the resultant stroke resolution in the sub-micrometer range, essential for ultra-low measuring spans.

### New Integration Options

Our optimized product range offers enhanced performance in a proven design, enabling higher flexibility and more integration options. Consequently, the proportional valves can be mounted and integrated directly on manifolds. Their compact design and low noise levels make them ideal components for installation in machinery or medical devices. The proportional valves can either be controlled via our Type 8605 electronic system or can be integrated into an existing superordinate control system.

### A Variety of Approvals

The design and the materials used for the new Bürkert proportional valves comply with a number of different approvals, thus allowing possible applications up to explosion-hazard Zone 0.

### Confidently Controlled

The new digital electronic control module, Type 8605, developed for controlling the new generation of proportional valves, offers extremely stable control of the coil current via an optimized PWM voltage signal that compensates for thermally induced changes in coil resistance. For setup and diagnostics, it features a detachable operating terminal, including display and keyboard. Serial communication via RS232 and RS485 interfaces enables user-friendly and convenient adaptation to application conditions. Extensive configuration options allow a broad range of operating conditions to be covered flexibly with only a few variants. The electronic module can be used universally for all Bürkert proportional valves and can be directly attached to many of these special Bürkert components.



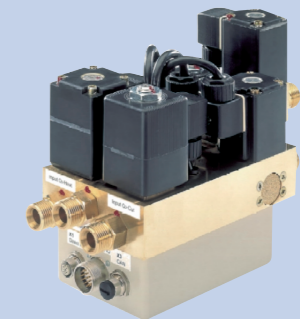
Firmly suspended and highly mobile – the armature can utilize its strengths to the full.

### Versatile Combination Options

The rugged design of the proportional valves, which also virtually predestines them for installation in the innovative Bürkert mass flow controllers, is exemplary. In combination with the new Type 8611 general-purpose controller and suitable sensors, they allow precise control of fluidic variables even in closed control loops. The applications extend from flow rate and temperature control applications in cooling circuits of die-casting machines through to gas-mixing systems and paint spray systems and up to cooling of IT systems.

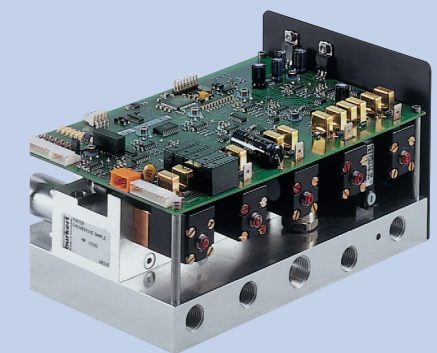
### New Perspectives

These components allow our customers to tap into new applications, particularly innovative applications in the medical engineering and analysis technology sectors. Our new valves can be put to optimum use wherever extremely precise control response is required.



### 3-Channel Pressure Controller

Developed for harsh environments in the industrial sector, the pressure controller impresses with its ruggedness and stability.



### 5-Channel Gas Flow Controller and Mixer

A customized solution that meets the requirements for a low-noise environment in the medical engineering and analysis technology sectors.