Universal integration and fast commissioning with new control heads for hygienic valves

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Pioneers in fluid control, Bürkert has released a range of control heads for the decentralised automation of pneumatically operated hygienic and aseptic process valves. The new Type 8682 and 8683 control heads feature universal integration with third-party single-seat, double-seat, butterfly and ball valves to achieve plant standardisation. Providing control, position monitoring, feedback, and diagnostics, the control heads also offer automatic commissioning.

Designed for the food & beverage, pharmaceutical, and biotech sectors, the new control heads are ideal for valve matrices or distributed systems. A key advantage is that the devices fit all commercially available pneumatic butterfly, ball, single-seat and double-seat valves. This enables standardisation to reduce complexity and the resources required for selection, training, stocking and maintenance of various control head types.

Retrofit is achieved without any modification thanks to valve-specific adapters that ensure a precise fit and fast installation. The 24VDC electrical supply and communication connections can be provided directly via a gland or using an industry-standard fly-lead including AS-interface, or digital IO-Link options.

Type 8682 & Type 8683

The Type 8682 control head for single seat and butterfly valves is available with feedback to monitor and report on valve position, or a pilot valve for pneumatic valve operation, with 3/2-way or 5/2-way options. The Type 8683 control head is for double as well as single seat valves, plus butterfly valves, and up to three 3/2-way pilot valves. As a position sensor, both control heads offer 86 mm linear movement with resolution to 0.03 mm, or 359° degrees with resolution to 0.2°.

The control heads provide automatic commissioning for virtually instant start-up. Teach-in-Operation mode, which is enabled out-of-the-box, gives end-position detection during operation for uninterrupted replacement and immediate operation, even before final positions are learned. As a result, plug-and-play performance enables continuous valve operation with no downtime throughout commissioning.

To tailor performance, Teach-In manual mode is also available to set valve end position, alongside Teach-in Auto mode. These options can be accessed via the device's keypad or can be set via Bürkert's Communicator software tool.

Clear diagnostics and efficient cleaning

Easy to read diagnostics are presented with an LED indicating device and peripheral status according to NAMUR NE 107. Meanwhile, an additional LED surrounding the circumference of the control head indicates the current valve position. Integrated diagnostics for early fault detection to reduce unplanned downtime includes switching times, as well as positions and deviations to detect faults, wear, and any irregularities.

Cleaning is crucial for hygienic and aseptic applications, and to optimise this process, the control heads feature cleaning modes based on time- and stroke-parameters, adjustable to process and valve requirements as well as media type.

To enhance cleaning efficiency and to reduce cleaning media consumption, both control heads include pulsed seat-lift cleaning functionality. In addition, the Type 8683 includes CIP.SAVE control, where cyclic seat movement increases cleaning efficiency by creating a turbulent flow profile to reduce cleaning media and provide precise timing including feedback.

To achieve protection against intensive cleaning and washdown, as well as outdoor and indoor use, both control heads have new designs including EPDM external seals, and EPDM, FKM, NBR internal seals. This provides up to IP69K protection for high-pressure washdowns, while the control heads are also designed to achieve reliable operation under vibration and impact.

To find out more about Bürkert's Type 8682 and 8683 control heads, visit our dedicated webpage.

Images & Captions:



Image 1: The Type 8682 and 8683 cover single / double-seat and butterfly valves.



Image 2: Retrofit is achieved without any modification thanks to valve-specific adapters that ensure a precise fit and fast installation.



Image 3: At-a-glance diagnostics allows quick and intuitive status recognition.

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