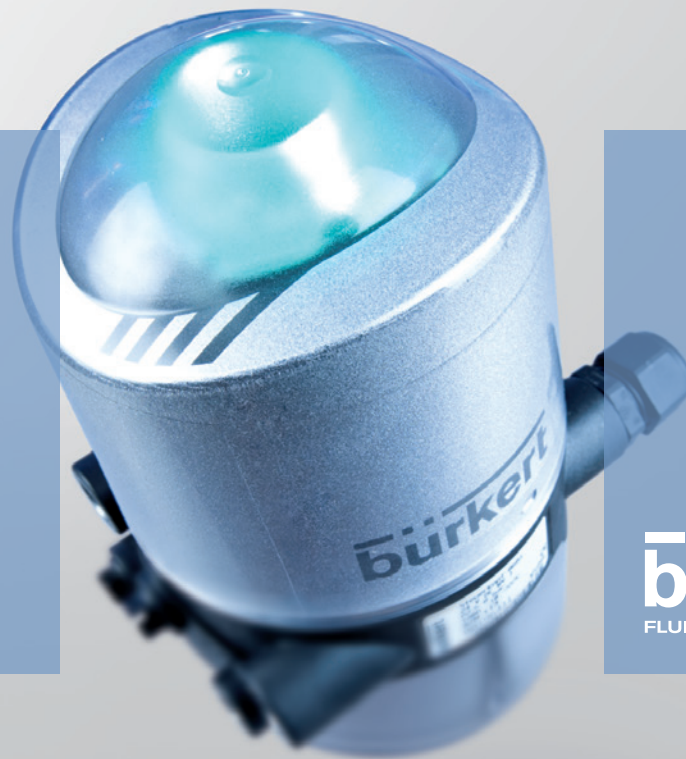


Easy installation, operation and status control

Control Head Type 8681 for hygienic process valves

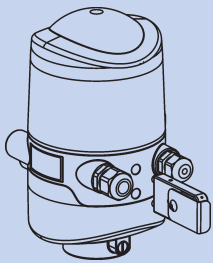


bürkert
FLUID CONTROL SYSTEMS

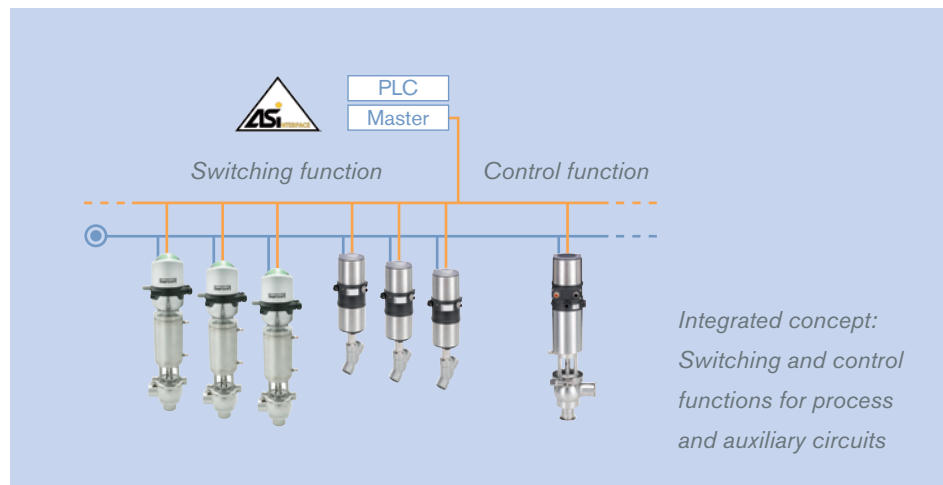
- Universal attachment for hygienic process valves
- Contactless position measurement system with 3 switching points (Teach-In function)
- Colored status display
- Manual override to be used with closed housing
- Communication interfaces AS-Interface and DeviceNet

With our control head 8681 a new star is born!

With the Type 8681, Bürkert presents a new control head that has been optimized for automation of pneumatic hygienic process valves. It is universally adaptable and can be combined with all commercially available valve types that utilize a rising stem upper actuator configuration. As the control head is very easy to clean, features IP69K protection, positive pressure electronic housing and is made from chemical resistant materials, it is ideal for use in severe wash down applications. The 8681 performs all pneumatic actuation, feedback and diagnostic functions, as well as bus communication. Depending on the process valve, as many as three pneumatically actuated seat movements can be controlled independently. The feedback system provides precise information about seat location and movement improving upon the safety these processes require.



Magnetic tool starts the maintenance mode of the process valve from the exterior



Easy installation, operation and status control

The switching positions are automatically determined by a fast and reliable teach-in function, which eliminates manual configuration. The moving speed of each actuator can be set individually for both directions and each actuator is protected by a check valve that prevents movement due to back pressure. A highly visible color-coded illuminated status display signals the various positions of the process valve.

Process valve maintenance function

A maintenance point programmed to switching cycles and operating hours is shown by the blinking status indication. The patented encoded manual override tool can be used to operate the process valve from the exterior while the wash-down protection is not breached.

Automation of process valves: fast, economical and reliable

Compared with actuation by pilot valves in a central switch cabinet, control heads mounted directly on the actuator offer clear advantages in terms of planning, installation, start-up and maintenance due to the significant reduction of the required connections, minimal installation effort for electrical wiring and pneumatic tubing when using the AS-interface. The switching times for the process fittings and the consumption of control air are minimized by the extremely short hoses between the pilot valve in the control head and the pneumatic actuator. This automation concept allows a clearly structured and easy-to-monitor system design, which will increase operational reliability.

Wireless is also possible

Parametrization and configuration are done via Bluetooth or USB-interface. A device remote control, teach-in and activation of the autotune-function is possible. Furthermore, diagnostic functions are read and edited or device data as software version and bus specific parameters are shown.

Technical data

Function

- Up to 3 pilot valves for actuation
- Contact-free position sensor for switch position feedback
- Process monitoring via optical status indicator
- Communication interfaces

Pneumatic pilot valve system

- Pilot valve modules with restrictable function to reduce the switching speed
- Integrated check valve for absolute process safety
- Manual override

Position sensor

- High-resolution, inductive position indicator
- Automated Teach-function for up to 3 feedback signals PNP
- Fourth switching position can be read via external initiator

Status indication

- Status indication via colored high power LEDs
- Color coding yellow, green and red individually adjustable

Housing

- Hygienic and optimized for cleaning
- Materials noncorrosive and durable against cleaning agents
- Protection type IP 65 and 67; additionally controlled over pressure protection
- Universal mechanical attachment to valve actuator

Communication interfaces

- AS-Interface; external power supply switchable
- DeviceNet

Service function process valve

Activation of the service function when Control Head housing is closed via patented magnetic hand-tool actuation

Diagnostic function

- Operating hours and switching cycle counter
- Error signal indication and maintenance request

Parametrization/Configuration

- Wireless via Bluetooth- interface and smartphone
- PC-interface via USB
- Device remote control for manual control, teaching and starting of the autotune-function
- Reading and editing of the diagnostic function
- Showing device data, software version and bus specific parameters

Ignition protection

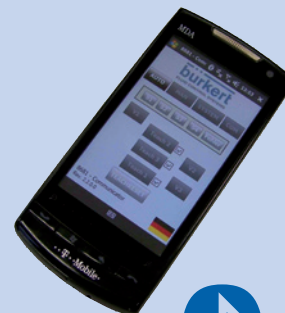
- ATEX Zone 2 II 3G Ex nA T4
- ATEX Zone 22 II 3D A22 T135°C



*Hygienic Process valves
decentrally automated*



*Control Head 8681 with
colored status indication*



*Parametrization/configuration
and maintenance function via
smartphone*





Bürkert Fluid Control Systems

USA

Sales Office – West Coast
2572 White Road
Irvine, CA 92614

Sales Office – East Coast
2915 Whitehall Park Drive, Suite 650
Charlotte, NC 28273

Systemhaus
2915 Whitehall Park Drive, Suite 100
Charlotte, NC 28273

Phone: 1-800-325-1405
Fax: 949-223-3198

marketing-usa@burkert.com
www.burkert-usa.com

Canada

5002 South Service Road
Burlington, Ontario L7L 5Y7

Phone: 905-632-3033
Fax: 905-632-3833

sales.ca@burkert.com
www.burkert.ca