

Valve manifolds for hygienic field assembly – Bürkert also enables installation directly on the actuator

With a control cabinet or decentralised and as close as possible to the process – Bürkert Fluid Control Systems always offers both options and mixed automation concepts for optimally adapting a hygienic installation of the pneumatic control systems to the respective conditions in food production. With the valve manifold model 8653 AirLINE Field, it is now possible for the first time to install pneumatic pilot valves without a stainless-steel housing directly on-site for process valves.



Hygienic Design control cabinet for use in hygienically sensitive environments.
(Photo: Bürkert Fluid Control Systems)

Complete control cabinet from one supplier

Whether it's the food and beverage industry, pharmaceutical production or biotechnology: There are no universal solutions for pneumatic automation systems. Nevertheless, the engineering costs can be kept within reasonable limits, as Bürkert Fluid Control Systems demonstrates with its Model 8614 Hygienic Design Control Cabinets. The ready-to-connect complete systems with all required fluid and electrical components are available in three standardised sizes and comprise valve manifolds of the models 8652, 8640, 8647 or 8644 with a stainless steel AirLINE-Quick adapter plate.

Elementary components of the system are the modular valve manifolds. They are installed and pre-wired directly on the floor or on the wall of the control cabinet with the stainless-steel AirLINE-Quick adapter. The pre-configured valve manifolds are equipped with all common pneumatic process safety features and field bus protocols as standard. In addition, customer-specific designs based on the standard systems are also possible. As the dimensions are relatively

small and all external parts consist of durable stainless steel, the Hygienic Design control cabinets are suitable for use in the midst of hygienically sensitive process environments. That saves materials and lowers the cost of installation and cleaning of the process system.

Designed for field use

If the valve manifolds must be located even closer to the process valves to be controlled, Bürkert Fluid Control Systems also offers a version for direct use in the field with the compact module model 8653 AirLINE Field. Its hardware design is optimised for installation directly on the actuator and meets the demanding requirements of the IP65/IP67 protection class.

The field module, which is available in three variants with IO-Link, CANopen or bÜS (Bürkert system bus), enables flexible automation concepts to be realised. It can be integrated directly in IO-Link or CANopen networks. As an alternative, it can be networked with various Bürkert devices via bÜS and communicates using the ME43 gateway module, but also via any common bus system. The device can easily be put into operation and supports extensive diagnostic and maintenance functions.



Compact IP65/IP67 valve manifold for field use directly on the actuator.
(Photo: Bürkert Fluid Control Systems)

With improved process safety

Communication in a closed ring topology and standard check valves in the vent duct against unintentional triggering by pressure peaks increase the process safety. A large number of diagnostic functions can be selected locally directly on the device with the LC display of the field module and displayed as plain text or symbolically. This simplifies the assignment of the displayed messages and saves valuable time during start-up and maintenance.

In everyday operation the display shows the operating status according to Namur at a glance during routine inspection. A well thought out installation system allows fastening in various positions, enabling installation even when space is very tight in systems. If more space is available, top-hat rail mounting is possible as an alternative.

Additional information and contact

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