Automation solutions for hygienic process technology

bürkert
FLUID CONTROL SYSTEMS

Rather central or decentral? Or simply close at hand?

Automation in the food and beverage industry is anything but a blanket solution. There is no one best method, because depending on the situation at your plant, different things are important. Fortunately, we have three options for helping you achieve your perfect automation solution:

Option 1 is the classic method. Central control cabinets are installed separately from the process technology. Pneumatic hoses and electric cables connect the control cabinet with the automation components in your plant.

Option 2 is the completely decentral method. Control heads are integrated directly in the particular fitting. They function as complete automation units and contain everything that is needed for automation.

Option 3 is particularly flexible. Compact and versatile pilot valve islands and pneumatic automation units are installed close to the process – directly in hygienic design housings, for example.

1, 2 or 3? You decide where you want to go – we show you the best way to get there.

AirLINE Quick in a hygienic-design enclosures

AirLINE Quick Solution

Flexible pneumatic valve units and compact automation systems bridge the gap between centralized and decentralized automation concepts. Using stainless steel attachments plates, these units are wall-mounted directly inside small, hygienically designed cabinets that can be installed close to machines and processes. These small, pre-configured and standardized units eliminate the distance to valves and field devices and can be kept clean easily.

Decentralized Automation

Decentralized automation uses intelligent control heads integrated into pneumatic process and control valves for all production processes and utility circuits such as cleaning agents, steam or temperature control. The result is a maximum of flexibility for project planning, installation and maintenance as well as transparency for process monitoring. A minimum of wiring and tubing ensures a maximum of hygiene and great energy efficiency through low compressed-air consumption.

Process valves with integrated control heads

Centralized Control Cabinet Solution

Centralized control cabinet solutions with automation systems for electrical and pneumatic signals have certainly not lost their importance, however. Bürkert provides a wide range of systems with switching cabinets typically located in the process environment at a certain distance away from valves and field devices.

Control cabinet with valve island and I/O system

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