AirLINE and AirLINE Field

Electropneumatic valve islands for your automation concept

bürkert
FLUID CONTROL SYSTEMS

The valve island Type 8652 AirLINE and the field device Type 8653 AirLINE Field provide easy commissioning and maintenance as well as minimized process risk - regardless of whether in the control cabinet or directly in the process environment. Thanks to a wide range of communication options they are also future-proof in times of Industry 4.0. In addition, the integration into the Bürkert platform EDIP is possible.

Your advantages

Minimized process risk in your plant

- Integrated check valves: prevent unwanted valve switching which can result from uncontrolled pressure peaks
- Display number of switching cycles and predefined warning thresholds: Preventive and wear-optimized maintenance
- Redundant ring topology with Media Redundancy Protocol (MRP) or Device Level Ring (DLR): Prevent total failure in case a single device / communication client fails

Easy commissioning and maintenance

- Two-line LCD with alphanumeric display: fast information on device status
- Hot swap function: change valves during operation with no plant downtime
- Optional connection to Bürkert‘s Efficient Device Integration Platform (EDIP): Configuration and parameterization with the universal software tool Communicator

Example applications

Type 8652 AirLINE is designed for space-saving installation in control cabinets by means of DIN rail mounting. The valve island is perfectly complemented by Type 8653: Thanks to a higher protection class IP 65/67, the field device can be used directly in the plant and thus even closer to the process.

Example application: Water treatment plant for industrial process water

In this application, all treatment steps like filtration processes and ion exchange can be automated centrally or decentrally. Optionally, the control of the treatment steps can be realized via a central control cabinet or with a field module for every single process step. In combination with numerous communication options the field modules offer a high degree of flexibility in plant design.

Example application: Process water for hygienic applications

Automation of actuators for process water in the pharmaceutical and food & beverage industries is achieved either by one large, central control cabinet or by smaller control cabinets distributed throughout the plant. The new valve island Type 8652 is used in both automation methods.

In standard central automation the valve islands are remote from the actual process. The advantages of this are fast and easy maintenance, since all control units are accessible at a single location. In distributed automation the control cabinets, along with the valve islands, are more compact and are located very near to the process. This improves the response time of the connected valves and reduces the expenses for cables and installation.

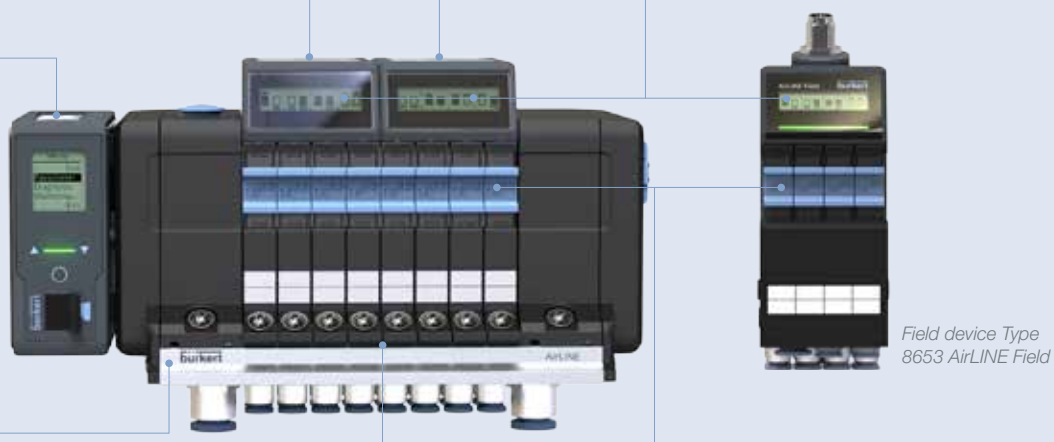
Treated process water is used for cleaning processes in the production of medications, foods and beverages, for example, or it can also be an ingredient in medications and foods.

Versions & options

Communication interfaces
- Industrial Ethernet (EtherNet/IP, PROFINET IO, Modbus TCP)
- PROFIBUS DP
- büS / CANopen

Digital feedbacks
- Compact and space-saving design
- Directly integrated in valve island

LC-Displays
To show …
- Pilot valve + process valve status
- Wire break | Short circuit | Pressure values
- Other individually configurable warnings and messages



Valve island Type 8652 AirLINE

Field device Type 8653 AirLINE Field

AirLINE Quick
- Fast and easy tubing

Pneumatic functions
- Hot-Swap functions
- Check valves

Robust manual operations
- Spring return, latching, locked
- Visual position indication