

## AirLINE SP

The new valve island compatible with  
Siemens SIMATIC ET 200SP HA

**bürkert**  
FLUID CONTROL SYSTEMS

The new AirLINE SP valve island from Bürkert is perfectly matched to the connection of the distributed Siemens peripheral systems SIMATIC ET 200SP and SIMATIC ET 200SP HA. Whether standard IO-modules or to control actuators via digital/analogue output modules: Everything is combined in a compact, powerful automation system.

### Your benefits

#### Process reliability in your plant

- Support of all SIMATIC ET 200SP and SIMATIC ET 200SP HA functions
- Integrated check valves: Avoidance of unwanted valve switching, for example caused by uncontrolled pressure peaks
- Ring topology with MRP (Media Redundancy Protocol) is supported: Avoidance of complete failure in case a single device/ communication participant fails thanks to redundancy
- Integrated safety functionality: In combination with Siemens modules, the valve island can solve automation tasks in a fail-safe manner

#### Time saving during start-up and maintenance

- Simple and convenient commissioning thanks to fast project programming via Siemens process control system PCS 7
- Two-line, clear text LC-display: Quick information on device status
- Hot-swap function: Valve can be changed during operation, no plant shutdown required

## Application examples

The AirLINE SP Type 8647 valve island is designed for installation in control cabinets and can be installed directly on the mounting rail of the distributed Siemens SIMATIC ET 200SP HA peripheral system.

### Application example drinking water supply

In waterworks, all water treatment steps, such as filtration processes and ion exchange, are usually automated independently of each other. There is thus a separate control cabinet for each individual treatment step, from which the valve island controls the connected actuators. This is due to the high demands on the operational safety of the entire plant (100% redundancy) in order to be able to guarantee the permanent availability and quality of drinking water. The same applies to plant availability, e.g., during maintenance procedures or unforeseeable events such as natural disasters or failures in other waterworks.

### Application example process water for hygienic applications

When process water is used in the pharmaceutical, food and beverage industries, the actuators involved are automated either by a large central control cabinet or by smaller control cabinets distributed throughout the plant. The new Type 8647 valve island is used in both automation approaches. Thanks to the integrated safety functionality, automation tasks can be solved in a fail-safe manner.

In conventional, centralised automation solutions, the valve islands are further away from the actual process. Advantages here are simple and fast maintenance, since all control units are accessible at one point. In distributed automation solutions, the control cabinets and valve islands are more compact and located very close to the process. This increases the response time of the connected valves and reduces cabling and installation effort.

Treated process water is used, for example, for cleaning processes in pharmaceutical, food and beverage production or can even be a component of the actual medicine and food.

## Variants & options

### Communication interfaces

- PROFINET IO
- Full range of modules for SIMATIC ET 200SP HA is available
- Various redundancy functions can be implemented to increase availability

### LC display

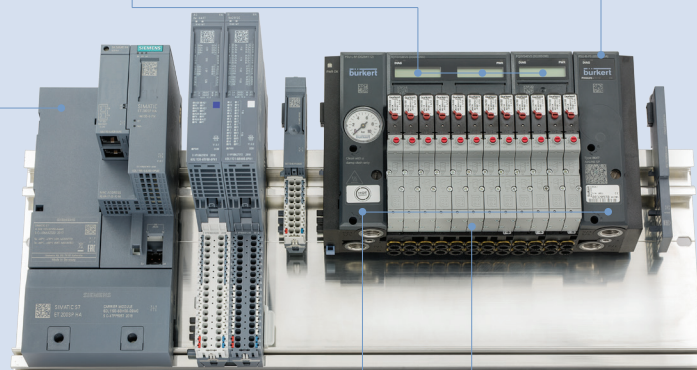
#### Display of

- Pilot valve and process valve status
- Wire break | short circuit | pressure values
- Further individually configurable warnings and messages

### Safe shut-off

- Module based: Shut-off of 4 or 8 valve slots
- Channel based: Shut-off of one single valve (Type 6524 and 6525)

Type 8647 AirLINE SP  
valve island



### Module extension

- Power-in modules such as pressure gauge and pressure sensor

### Pneumatic functions

- Hot-swap function
- Check valves