

8 December 2015

With a view toward process safety
Safety-related valve shut-down

Machines must be constructed so that their functions harm neither human beings nor property. Safety is the top priority. Bürkert has expanded the versatile Type 8640 valve island and the Type 8644 automation system to include new versions of the Type 6524 and 6525 pneumatic valves for safety-related shut-down. These valves enable the safe shut-down of processes up to performance level c.

In conformity with the Machinery Directive, the valves are designed for all applications with special requirements for process safety. This includes the food and beverage industry, pharmaceuticals and chemicals, as well as industrial water systems. The new Bürkert components are installed in emergency systems for immediate process shut-down, for example, as well as for increased safety in processes involving high temperatures and hot vapours. In addition to the safety aspects, users also benefit from fast and easy installation of the components, compatibility with existing valve products and compact dimensions, which allow altogether smaller control cabinet solutions. Their compact size allows the use of the new valve versions in existing valve islands from Bürkert, which can be constructed with much smaller dimensions than in the past, due to the combination of pneumatics, field bus interface and I/O modules on the control cabinet floor or the wall.

In general, Bürkert valve islands and automation systems are suitable for use in many different types of hygienic process environments, for which they readily fulfil the stringent requirements. This is ensured by the integrated process safety features of the Type 8640 valve island and the Type 8644 automation system – features which are especially important in hygienic processes. Check valves integrated in the exhaust air duct guarantee that in the event that all actuators are shut down simultaneously during a disturbance in the system, no back pressure can accumulate in a valve block, which could result in unwanted switching of a process valve, with serious consequences for the process. The time-proven hot-swap function allows replacement of faulty valves even during operation, without the risk of loss of air pressure on the entire valve block. The combination of a valve terminal or automation system with the AirLINE Quick adapter provides an especially compact system solution for even more flexibility in a smaller space.

Bürkert Fluid Control Systems

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Press Release



(2.455 characters, including spaces)

Captions:

Bürkert expands the Type 8640 valve island and the Type 8644 automation system to include new valve versions for safety-related shut-down.

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About BÜRKERT

Bürkert Fluid Control Systems is one of the world's leading manufacturers of measuring, control and regulating systems for fluids and gases. Bürkert products are used in a wide range of industries and applications – ranging from breweries and labs to medical, bio-engineering and aerospace technology. With a portfolio of more than 30,000 products Bürkert is the only supplier to offer all fluid control system components: from solenoid valves to process and analytical valves, as well as pneumatic actuators and sensors.

The company, with headquarters in Ingelfingen in southern Germany, has a large-ranging sales network in 36 countries and more than 2,500 employees worldwide. In five Systemhaus locations in Germany, China and the USA, as well as four research centres, Bürkert continuously develops customised solutions and innovative products. The product spectrum is supplemented by the comprehensive BürkertPlus service package, which provides support to the customer throughout the entire product life cycle.

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