

Press release

Reliable Protection for both Man and Machine

New AS3-SV exhaust valve from Aventics ensures reliable, standardized safety, even with fast cycle times

In times of digitalization, machine safety still remains a priority issue for industrial manufacturers. With its new safety valve, Aventics has reinforced its range of products in this area. Users can integrate it modularly into AS series maintenance units or position it flexibly as a stand-alone product.

Laatzen, October 8, 2018 – Thanks to the redundant structure and two-channel signal processing with self-monitoring, users can achieve category 4 safety-relevant controls with the new AS3-SV while meeting the maximum performance level "e" (PLe) according to ISO 13849-1.

“The valve assumes safety functions including redundant exhaust and protection against unexpected pressurization,” explains Aventics product manager Jean-Marc Gruffat. “It only activates compressed air supply when all conditions for a safe system start-up have been met.” Protection against unexpected pressurization stops the cylinders from being actuated unintentionally, preventing potential accidents. In the event of a machine fault or emergency OFF, the valve exhausts the operating lines, ensuring a de-energized and thus safe state.

Soft-start capabilities

In addition, the AS3-SV’s soft-start function gently moves the actuators into their initial position and then switches through to full working pressure. Here, the technician uses an adjustment screw to adapt the time for switching to full pressure. Full pressure is switched at a value of around 50 percent of the input pressure. The operator can also override slow pressurization.

Safe inputs, outputs, and controls are already integrated in the new product. “As a result, machine manufacturers and system integrators can implement the safety electronics in hardware and software without any additional effort,” adds Gruffat. For example, the AS3-SV is suitable for use in door switches, light barriers, as a safe output for a control, or as a safety module for emergency OFF applications.

Aventics will highlight the topic of machine safety at Motek 2018, booth 4402 in hall 4. The

international trade fair for automation in production and assembly will take place from October 8 to 11, 2018, in Stuttgart.

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Images

- ▲ Image 1: The AS3-SV assumes safety functions including redundant exhaust and protection against unexpected pressurization. (Photo: copyright Aventics)

About Aventics

Aventics is one of the world's leading manufacturers of pneumatic components and systems. The pneumatic engineering company provides products and services for industrial automation, as well as the food, packaging, medical, and energy technology industries. The company also develops solutions for the commercial vehicles, marine, and railway technology sectors.

By integrating electronics, the use of state-of-the-art materials, and focusing on machine safety and the Internet of Things (I4.0), Aventics is a pioneer in applied and environmentally-friendly solutions. Aventics is preparing for the future by expanding its approach to digitalization.

With around 150 years of expertise in pneumatics, Aventics employs over 2,000 associates worldwide. From production sites in Germany, France, Hungary, the USA, and China, Aventics markets its products in over 100 countries through direct sales and sales partners. The Aventics Group has received multiple certifications, including ISO 9001 and ISO/TS 16949 for quality, ISO 50001 for energy management, and ISO 14001 for environmental management. Further information is available at www.aventics.com.

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