

Product Sustainability Fact Sheet

Media separated solenoid valve VYKA



General Information: Sustainability in Product Development

As an independent family-owned company, Festo has always adopted a long-term perspective and takes responsibility for current and future generations. Sustainability is therefore an integral part of our corporate philosophy and is consistently embedded in the development of all our products. Sustainability criteria have been incorporated into the product development process. Our goal is to minimize environmental impacts across the entire lifecycle, including manufacturing, sourcing, use, and end-of-life cycle of our products. We also place strong emphasis on avoiding critical and environmentally harmful substances.

Products with particularly outstanding sustainability performance are highlighted within Festo's Sustainability Portfolio basket. This designation is based on three categories:

Sustainable in Manufacturing

Products that demonstrate sustainability benefits through compact design, reduced material usage, or the use of alternative materials with a lower carbon footprint, compared with the relevant ISO standard, a predecessor product, or a comparable competitor product.

Sustainable in Operation

Products that reduce energy and resource consumption during use, for example by lowering the demand for electrical energy, compressed air, or valuable operating media such as gases and liquids. In this assessment, Festo considers not only the individual component but also its contribution to the efficiency of the overall application.

Sustainable at End of Life

Products designed to reduce resource consumption by keeping materials, components, and products in the value chain for as long as possible through reuse, repair, refurbishment, and recycling principles.

Product-Specific Sustainability Description

Media separated solenoid valve VYKA

Sustainability Category: Sustainable operation thanks to efficient control

The VYKA valve supports sustainable machine design through its simple and efficient operating principle. By controlling media flow without direct contact between the valve mechanism and the medium, wear is minimized, leakage is reduced to below 1 ml/h. Maintenance requirements are reduced as well. Its durable design helps extend service life of up to 10 million switching cycles, conserve resources, and lower the environmental impact associated with replacement and servicing throughout the product lifecycle.

We achieve a lower energy consumption due to holding current reduction. Therefore, we compared VYKA with two competitor products valve 1 and valve 2.

Festo product	power consumption	Competitor product	power consumption	reduction in %
VYKA	0,3 W	Valve 1	1,25 W	76 %
VYKA	0,3 W	Valve 2	0,9 W	66%

Lower energy consumption results in less waste heat, which is also important to prevent temperature transfer into the media.

