Food & Beverage and Pharmaceutical Trends

The increasing demand for safe and reliable food processing requires a high degree of system efficiency and process integration. This applies to pharmaceuticals as well.
For process reliability and safety in the entire value chain, the requirements regarding hygienic production and complete transparency are evolving constantly. Current specifications from the FDA, such as FSMA and DQSA as well as EU monitoring regulations, form the legal basis for food processing.

Your Applications

Manufacturing	• Dosing and mixing • Molding and cutting
Handling and robotics	• Conveying and feeding • Sorting and inserting
Primary packaging	• Wrapping and sealing • Bottling and closing

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WITTENSTEIN alpha – Intelligent drive systems
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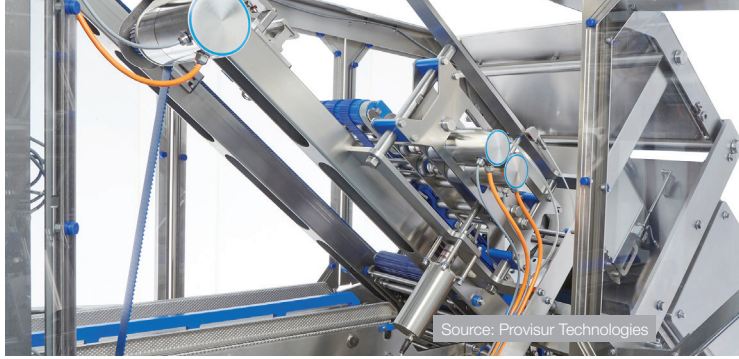
WITTENSTEIN alpha_axenia value_EN_2022_I

Resistant
Compact
Reliable

axenia value

Servo actuator in hygienic design



Your Requirements

Food and pharmaceutical safety

- Certified hygienic design to prevent the growth and harborage of bacteria and contaminants

Open design

- Eliminates enclosures and covers, allowing for greater levels of sanitation
- Enables direct access to clean production and splash-down surfaces

System availability

- Reduces downtime for cleaning operations
- Long service life through the use of CIP-compatible materials

Flexibility and productivity

- Rapid changeover for different product configurations and higher throughput

Space requirements

- Reduces overall footprint of the machine design

Our Solution

axenia value

axenia is a compact servo actuator which connects the motor to the gearbox for absolute precision and dynamics in hygienic systems.

- Completely smooth surface finish, made of highly resistant materials for Clean-In-Place processes
- Rigorously tested for certified performance, protection rating, and resistance against aggressive cleaning agents
- Integrated and optimized sealing concepts
- Powerful motor performance in a wide range of operating temperatures
- Simple installation and connectivity with optional single cable solution
- UL, Free of CCC

Version			AVF 1	AVF 2	AVF 3
Max. acceleration torque	T_{2B}	Nm	32	77.5	200
Stall torque	T_{20}	Nm	11.8	32.8	88.3
Max. output speed	n_{2max}	min^{-1}	600	600	480
Ratios		i	10, 16, 20, 25		
Options	• Holding brake • Encoder: Resolver, HIPERFACE DSL®, EnDat 2.1/2.2, DRIVE-CLiQ				
Materials	• 316L stainless steel, Ra ≤ 0.8 µm • Food-grade PTFE seals				
Protection class	• IP69X, Max. cleaning pressure 30 bar				

Our Range of Services

With our many years of experience in hygienic systems and drive solutions, we developed holistic hygienic design and corrosion resistant products. Our extensive portfolio of process-integrated solutions range from planetary gearboxes to compact servo actuators.

We have been a member of the EHEDG (European Hygienic Engineering & Design Group) since 2012. Our Hygienic Design servo actuator axenia value as well as the gearboxes HDV and HDP+, have been developed according to the EHEDG guidelines. They enable our customers to always meet the highest demands with maximum efficiency with their machines.

Learn more about our hygienic design solutions here:
www.wittenstein.de/en-en/hygienic-design/