



Next-generation Alfa Laval UltraPure magnetic mixers for mixing to the last drop in biotech and pharmaceutical applications

Alfa Laval is expanding its successful range of magnetic mixers with the new Alfa Laval LeviMag® UltraPure, engineered for the sterile production of biotech and pharmaceutical products. Significant performance improvements and substantially reduced maintenance costs, due to longer-lasting, easy-to-replace bearings, contribute to superior hygiene and higher yields.

These next-generation Alfa Laval LeviMag® UltraPure magnetic mixers are based on the same patented, hygienic design as the proven Alfa Laval magnetic mixer used by the pharmaceutical industry for nearly a decade. They are designed to meet the demands of liquid-based pharmaceutical formulations – from injectables, solutions, plasma fractions and bacteria and cell cultures to suspensions in environments – that require the validation of mixer cleanability, drainability, bioburden control, low-shear performance and thorough documentation.

“Like its predecessor, the Alfa Laval LeviMag UltraPure features an impeller that levitates on a powerful magnetic field at all times, so there is no direct contact between the axial part of the bearing surfaces,” says Michael Stenderup, Portfolio Manager, Mixers and Agitators, Alfa Laval. “This provides very gentle treatment because there is no grinding on the bearing shoulder. It also ensures superior mixing, unparalleled cleanability and safe dry-running capabilities.”

Hygienic low-shear mixing

The new Alfa Laval LeviMag UltraPure delivers low-shear mixing, gentle product treatment and easy cleanability. Capable of operating at a broad range of speeds, the magnetic mixer features a specially designed four-wing impeller that delivers high pumping efficiency. This safeguards product integrity, provides full drainability and ensures efficient mixing down to the last drop because the mixer can be run dry. The open mixer design enables full coverage during Cleaning-in-Place, making the removal of product residues more efficient.



Mixing down to the last drop

Boosting efficiency and increasing productivity are major focus areas of the Alfa Laval LeviMag UltraPure. The mixers keep the product homogeneous down to the last drop. This promotes 100% yield.

More uptime with replaceable, low-maintenance bearings

A big advantage with the LeviMag UltraPure is the ease and convenience of servicing the magnetic mixer. Levitating bearings contribute to reduced costs, improved product safety and more uptime. High strength stress-tolerant male bearings, made of yttria-stabilized tetragonal zirconia polycrystal (YTZP) ceramic, minimize the generation of wear particles that can contaminate the product. The female bearings are also low wear. Moreover, the replacement of the female bearings, when necessary, can take place on site, making maintenance convenient and cost-efficient.

Full traceability

As with all Alfa Laval UltraPure products, biotech and pharmaceutical manufacturers can rest assured that the Alfa Laval LeviMag UltraPure complies with the stringent requirements for operation in the most demanding sterile applications. The LeviMag UltraPure comes with Alfa Laval Q-doc, the comprehensive documentation package. To assist in validation, qualification and change control, it provides full transparency of sourcing, production and supply chains – from raw material to delivered equipment. Q-doc also ensures full traceability of all product contact parts.

To learn more about the Alfa Laval LeviMag UltraPure magnetic mixers, visit

<https://www.alfalaval.com/products/fluid-handling/mixing-equipment/Tank-Mixers/levimag-ultrapure>

About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineering solutions based on its key technologies of heat transfer, separation and fluid handling.

The company's equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. The solutions help them to heat, cool, separate and transport products in industries that produce food and beverages, chemicals and petrochemicals, pharmaceuticals, starch, sugar and ethanol.



Alfa Laval's products are also used in power plants, aboard ships, oil and gas exploration, in the mechanical engineering industry, in the mining industry and for wastewater treatment, as well as for comfort climate and refrigeration applications.

Alfa Laval's worldwide organization works closely with customers in nearly 100 countries to help them stay ahead in the global arena. Alfa Laval is listed on Nasdaq OMX, and, in 2017, posted annual sales of about SEK 35.3 billion (approx. 3.6 billion Euros). The company has about 16,400 employees.

www.alfalaval.com

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