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New Alfa Laval Twin Screw Pump increases process flexibility, service and reliability, and operational safety.



Alfa Laval Twin Screw: 'Delicately Robust'

Introducing the Alfa Laval Twin Screw Pump, the latest addition to the company's hygienic pump portfolio for use in the dairy, food, beverage and personal care industries. Designed for process flexibility, the twin screw pump is built on a robust, reliable platform that meets stringent hygienic standards. Capable of handling both product transfer and Cleaning-in-Place (CIP), it has many new features, such as a low pulsation characteristic, excellent solids handling capability and superior suction performance which offer users greater process flexibility, high reliability, quick and easy maintenance, and increased operational safety. This simplifies operation and reduces costs whilst minimizing contamination risks and maximizing yield.

Greater process flexibility

The new Alfa Laval Twin Screw Pump combines the capabilities of positive displacement and centrifugal pump technologies into a single pump. With its two-in-one operation, the pump easily handles process media of varying viscosities as well as CIP fluids. This simplifies piping and control, which reduces costs and minimizes contamination risks. Moreover, superior suction performance with excellent lift capability and low NPSHr also provides installation flexibility and increases product recovery. In addition, smooth, gentle operation due to the

pump's low pulsation characteristics and excellent solids handling capabilities reduce the potential for product damage.

High reliability and quick, easy service

The Alfa Laval Twin Screw Pump features a truly front-loading seal, robust gearbox and easy-to-set timing gears, all of which contribute to high reliability and easy maintenance. Quick seal replacement with the pump in place is now possible, thanks to a cartridge seal with a truly front-loading, self-setting design and the ability to be refurbished. This maximizes process uptime and minimizes maintenance costs.

A sturdy, all stainless-steel gearbox with timing gears located between the bearings optimizes the bearing span and balances the load of the shaft assembly, reducing vibration and noise while increasing component life and reliability.

Timing has also been simplified with easy access to the timing gears whilst the pump is in position. This simplifies the process of screw retiming because there is no need to drain the oil from the gearbox or remove the coupling and motor.

Increased operational safety

The hygienic design of the Alfa Laval Twin Screw Pump features a clean, external stainless-steel finish with profiled elastomers and mechanical seals fully surrounded by the product. Engineered for maximum cleanability using FDA-conforming materials, the pump is both EHEDG- and 3-A-certified.

With its optimized gearbox design and excellent hydraulic performance, the Alfa Laval Twin Screw Pump is able to operate quietly, minimizing noise emissions. Moreover, the operating temperature is also minimized, thereby increasing workplace safety. An optional ATEX version makes it possible to use the pump in hazardous areas.

“Precision-engineered for performance, the Alfa Laval Twin Screw Pump is characterized as ‘Delicately Robust’,” says John Walker, Portfolio Manager, Pumps, Alfa Laval. “Its smooth, gentle operation *ensures* efficient transfer of varying process media – whether chunky, shear-sensitive or *abrasive* – and a wide viscosity range, making it ideal for users requiring a single pump for multiple duties.”

The addition of the Alfa Laval Twin Screw Pump complements Alfa Laval's existing positive displacement pump portfolio, which includes rotary lobe and circumferential piston pump technologies. This enables Alfa Laval to offer the optimal pumping solution for the process application at hand.

To learn more about the Alfa Laval Twin Screw Pump, checkout: www.alfalaval.nl/twinscrew

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Editor's notes

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 2018, posted annual sales of about SEK 40.7 billion (approx. 4.0 billion Euros). The company has about 17 200 employees.

www.alfalaval.nl