

Sanitary Pumps

The Complete Line





Everything you need,
everywhere you need it

Alfa Laval is a world-leading supplier of pumps for a wide range of sanitary applications within the food, dairy, beverage, bio-pharm and personal care industries. Our products are developed not only to meet your exacting demands for safety, reliability, efficiency and hygiene, but also to ensure the careful handling of your products.

One of the features that distinguishes us from our competitors is our breadth of application. We can supply components for all stages of your process – besides pumps, our sanitary range includes valves, installation material, tank equipment and heat exchangers.

This brochure includes the following Alfa Laval line of high-quality sanitary pumps:

- Centrifugal Pumps
- Standard Duty Pumps
- Liquid Ring Pumps
- Rotary Lobe Pumps

For more detailed technical information and specifications of our products, please refer to the relevant product sheet provided by your local Alfa Laval supplier, or to our website, www.alfalaval.us

Centrifugal Pumps

Premium Pumps

LKH

When you need to move your product through a system gently and efficiently, LKH centrifugal pumps from Alfa Laval are your best solution. There are different versions available for special applications:

LKH – the premium centrifugal pump for most applications

LKHP-High Pressure – built to handle high inlet pressure

LKH-UltraPure – for high-purity inlet pressure demands

LKH-Multistage – for high outlet pressures

LKHI – built to handle intermediate inlet pressure

The enlarged inlets combined with an advanced impeller design result in unobstructed product flow and very low NPSH requirements. Designed for either Clean In Place (CIP) or manual cleaning, these quiet pumps are available with capacities up to 1,300 gal/min and/or pressures up to 525 head in feet of water (227 psi).

All product contact parts are made of AISI 316L stainless steel. Polished models are USDA approved and exceed 3A standards, so you can be sure you have got the most hygienic, yet rugged, centrifugal pump possible.

LKH

The premium centrifugal pump for most applications.



Some of the benefits of Alfa Laval's LKH centrifugal pump line are:

- Easy maintenance at low costs
- Hygienic design
- Gentle product treatment
- Identical shaft seals for standard range, LKH-5 to LKH-60
- Easy conversion of shaft seals
- Low NPSH requirements means minimum risk of cavitation
- Low power consumption and noise level
- Low cost spare part stock



LKH-UltraPure
Meets specifications for High-Purity-Water (HPW)
and Water-for-Injection (WFI).



LKHP-High Pressure
For demanding high pressure applications
such as reverse osmosis mono-filtration.



LKH-Multistage
For high outlet pressures, e.g. in breweries,
reverse osmosis and ultra-filtration.

Standard Duty Pumps

SolidC

SolidC is a reliable, cost-effective centrifugal pump for simple transport duties within the working range up to 380 gallons/minute. All four pumps sizes in the SolidC range are fitted with the same superior long life shaft seal as pumps in Alfa Laval's premium LKH range. You can stock just one type of seal for all sanitary pumps in your plant.

Servicing SolidC is fast and simple. The front-loading shaft seal can be replaced in minutes. And with advanced hygienic design features, SolidC takes hygiene to a new level for standard duty pumps. The following are benefits of the SolidC:

- All product wetted parts are made of AISI 316L stainless steel
- Complies with 3A, CE and has EHEDGE certification
- Twice the seal life of a C series
- Self-centering stub shaft so no dial gauge is needed to achieve .001" T.I.R.
- Standard 304 SS adaptor cylinder
- One seal fits all SolidC and most LKH sizes
- Lower NPSH requirements.



SolidC
The new standard duty pump
for sanitary applications.

Liquid Ring Pumps

MR-Liquid Ring

Alfa Laval's MR liquid ring models are widely used to pump liquids containing gases. The liquid ring is self-priming when at least half filled with liquid. So it is capable of pumping from a suction line partly filled with air. Because they are self-priming, they serve as ideal return pumps in CIP systems.



MR-Liquid Ring
For pumping liquids
containing air or gases.

Rotary Lobe Pumps

Designed using advanced Computational Fluid Dynamics (CFD) software ensures that rotary lobe pumps from Alfa Laval are at the forefront of this technology. Able to handle low, medium and high viscosity media, these pumps are used in virtually every industry where gentle, sanitary processing is a requirement. The SX and SRU ranges together include 26 models, with flow rates up to 500 GPM, providing you with the widest choice from this technology. It guarantees precise and cost-effective pump selection for your applications.

Some of the benefits of Alfa Laval's SRU and SX rotary lobe pumps are:

- Universal mounting for vertical and horizontal port orientation
- Ideal for CIP
- Conformity to EHEDG, 3A and FDA requirements
- Low pulsation and low shear operation
- 316L Stainless steel wetted components
- Full bore-through ports
- Heavy duty construction
- Total application flexibility
- Precise and cost-effective pump selection
- Modular construction
- Reliable operation and low maintenance
- High efficiency, low power consumption



SX Rotary Lobe Pump
When absolutely sterile process equipment is required.



SRU Rotary Lobe Pump
Offers heavy-duty construction and easy maintenance.

SRU Rotary Lobe Pumps

The SRU pump is the workhorse of our traditional rotary lobe pumps, designed to meet the high standards required by the diversity of the processing industries. The SRU range offers a standard choice of two high-quality sanitary primary seals in a variety of material combinations, as well as three and two lobe rotor options, to suit your specific application needs. The robust and innovative modular design of the SRU provides you with greater application flexibility, as well as a cost-effective, low maintenance product. SRU pumps also conform to USA 3A guidelines and are ideal for CIP operation. The following are additional benefits of the SRU pump:

- Twelve models to choose from, with capacities ranging up to 466 gallons/minute
- The SRU pump is "modular" with only six different gearboxes
- Available as a single, single-flushed and double-flushed arrangement
- Variable seat and face combinations
- A wide range of stainless steel options that include tri-lobe and bi-lobe in conventional 316L Stainless Steel and bi-lobe non-galling alloy options.

SX Rotary Lobe Pumps

The SX pump range is the ultimate solution for bio-pharmaceutical and other ultra-clean processes where product integrity and the cost of the finished product are paramount in the equipment selection decision. The SX range features include low shear, low pulsation four lobe rotor geometry, and genuine front loading primary seals as well as a self-cleaning rotor retention device for maximum hygiene integrity and low maintenance. SX pumps are certified to EHEDG (European Hygienic Equipment Design Group) as well as USA 3A guidelines, ensuring the ultimate in cleanability.

Alfa Laval in Brief

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuffs, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

