

# Let us look into your tank

Building tanks? Let us be your speaking partner. Our business is tank equipment. We have the know-how to advise you, and the most comprehensive product range on the market today. Access tank covers, agitators, rotary jet mixers, cleaning equipment, instrumentation, sight glasses and accessories, as well as valves to match all your needs, everything except the tank itself. That's your business. Use one reliable supplier for tank equipment and save time and money.

Using tanks for processing food, beverages, dairy products, pharmaceuticals or personal care products? Our Toftejorg tank cleaning equipment is the most advanced on the market. No tank cleaning challenge is too tough for us. Because we understand your processes, the unsurpassed efficiency of our CIP solutions shortens cleaning time, cuts operating costs and improves your bottom line.

Wherever you are, the resources of Alfa Laval's global sales, distribution, parts and service network are there to support you. We speak your language.

*Think Tank. Think Alfa Laval.*

## High quality tank covers give easy access whatever the tank design

- A complete range of standard covers with approximately 50 models
- Available in all shapes and sizes including circular, oval and rectangular models
- Full range of pressure covers
- Full range of covers including 3-A and 3.1.



## Outside the tank – everything except the tank itself!

Sanitary tank equipment is our business. With the most comprehensive range of standard tank equipment components on the market and our extensive process know-how, we are your ideal speaking partner. Together we can offer tank solutions to meet the most demanding specifications.

The name Alfa Laval is synonymous with quality. When it comes to tank equipment, we have everything you need, plus the know-how to become your speaking partner on a day-to-day basis.

### Access tank covers

Choose from more than 50 access covers of various shapes and sizes. These are designed for use in pressure, non-pressure and static pressure vessels. Our pressure covers meet 3-A and 3.1 standards. Options include selection of seal materials and special surface finishes. Our HLSD manways are approved for pressures up to 10 bar and can be installed in pressure vessels above liquid level.

### Mixers and agitators

Alfa Laval offers quality mixers and agitators for efficient blending of low-to-high viscosity fluids – from milk, wine and juices to yoghurt, desserts

and fruit drinks – and for dissolving and suspending solids within liquids.

Our standard and custom-built propeller agitators come with various mounting options and meet most process parameters and operating conditions, including the most stringent hygiene standards.

Our new patented rotary jet mixers deliver higher efficiency, greater cost-effectiveness and improved productivity for tasks including liquid mixing, gas dispersion and powder mixing. The new technology can also improve beer fermentation.

### Instrumentation

For pressure, temperature, flow, level, and analytical equipment, choose from Alfa Laval's wide range of hygienic instrumentation designed for the sanitary and pharmaceutical industry. Optional equipment may be supplied with veri-

fication of conformance with EHEDG, 3-A, FDA, 3.1 and ATEX standards.

### Sight glasses

Available in sizes to suit all needs, our range of sight glasses includes models with halogen light fittings.

### Valves

To meet virtually any demand, Alfa Laval has a wide range of valves - from aseptic diaphragm and butterfly valves to single seat, mixproof and check valves. Our Unique Mixproof Tank Outlet Valve, for instance, is ideal for cleaning of pipelines right up to the tank bottom while our Unique SSV Tank Outlet Valve fits into tight spaces.

### Accessories

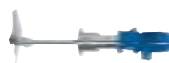
Our extensive portfolio includes pumps, tank legs, tubes and fittings for quick and easy installation in sanitary process plants.



Access tank covers circular, rectangular and oval



Sightglasses & tank accessories



Agitator ALS



Agitator ALB



Rotary jet mixer



Rotachek sensor



Flow transmitter



Tank outlet valves

## Start a revolution in your tank

- Increased productivity
- Shorter cleaning cycles, higher output
- Verification of the cleaning process
- Improved end-product quality
- Substantial savings in water, energy and chemical consumption
- Less waste from the cleaning process
- Compliance with industry standards



## Inside the tank – a clean revolution!

The benefits you get in your process from using efficient tank cleaning will surprise you. Part of our tank equipment range, Toftejorg rotary systems cut cleaning time, boost overall output in your plant, and improve your bottom line. Efficient tank cleaning also enhances end-product quality.

### At point of installation...

We have an extensive portfolio of valves, pumps, pipes and fittings for fast, simple tank installation.

A marriage of extensive R&D and genuine process know-how, our Toftejorg rotary machines are the most advanced tank cleaning solutions available on the market today.

### Cleaning with impact

During a CIP cycle, the rotating spray and jet heads propel cleaning media against the tank walls with great efficiency. Together, the impact of the cleaning media and the rotary motion effectively remove all residual material from the inside of the tank. The cleaning cycle is much shorter, allowing more

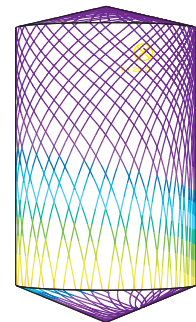
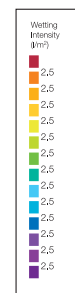
time for production. Most important of all, your tanks are cleaned more efficiently than ever before!

### Lower costs, higher productivity

Rotary spray and jet heads offer unmatched cleaning speed and efficiency. They reduce consumption of chemicals, water and energy, at the same time minimising the volume of waste generated by the cleaning process. It all adds up to lower operating costs and a significant increase in overall plant output.

### Meeting industry standards

Whatever your business, our Toftejorg tank cleaning equipment meets most hygiene requirements. We also provide all necessary machine documentation



Let us analyse your needs. Our TRAX software simulates the performance of a Toftejorg rotary cleaning machine in your tank, before installation, by illustrating detergent distribution and wetting intensity. Using this information we can determine the configuration of the equipment in your tank that will provide the highest cleaning efficiency.

and data, such as 3-A, 3.1, ATEX category 1 for installation in zone 0/20 and surface finish readings.

The SaniJet 25 is certified by EHEDG and SaniMidget SB is authorized to carry the 3-A symbol.



## Toftejorg tank cleaning equipment



SaniJet 20



SaniJet 25



TJ 20G



TZ-74



SaniMidget



SaniMidget SB 3-A



SaniMidget Retractor



LKRK Static Spray Ball



## Whatever your process – we have the cleaning system

Consult Alfa Laval, the world's leading know-how company in the field of tank cleaning. Our in-depth knowledge of your process enables us to assess your needs and configure a cost-effective CIP solution that will really make an impact on your overall output.

### Breweries, beverages

The industry standard, Toftejorg rotary cleaning machines streamline every stage of the brewing process, from brew house, yeast cellar and fermentation to bright beer. We can optimise CIP performance for all types of brewery vessels. Toftejorg rotary technology offers savings in cleaning time and chemicals consumption. The same benefits apply to the wine and soft drink sectors.

### Food

Fulfilling industry hygiene requirements and manufactured in FDA compliance materials, our rotary cleaning machines are designed to face the toughest challenges. These include removal of burnt residue and biofilm, elimination of cross-contamination, and cleaning tanks with agitators or baffles.

### Dairy

The scrubbing action of our Toftejorg rotary heads is ideal for removing stubborn residues such as yoghurt or fresh cheese. Fast and efficient cleaning of silo and storage tanks is provided by Toftejorg rotary heads. Where permanent cleaning machines are unsuitable, our retractable systems are the ideal solution. Our systems comply with EHEDG design requirements.

### Pharmaceuticals

Self-cleaning and self-draining, Toftejorg rotary machines are a highly effective solution. Our sanitary product line conforms with the strictest guidelines including FDA cGMP, and EHEDG. We can provide all required product documentation and data, application analyses, or both.

### Personal care

The complete coverage, rotary action and powerful impact provided by our Toftejorg rotary machines make them highly effective for cleaning viscous, foaming or thixotropic products.



**A watchful eye** Alfa Laval is a global company with a strong local presence worldwide. Wherever you are, our representatives are never far away – and we speak your language. Our aim is to provide just-in-time delivery and support you in every way we can. We keep a watchful eye on your operation to help keep you up and running smoothly.



## A resourceful partner – for tank builders and tank users

For the tank builder...

### **One source supplier**

As a tank builder, what do you look for in an equipment supplier? Access to a complete range of equipment is important. Why waste valuable time dealing with several suppliers, when you can obtain access tank covers, cleaning equipment, agitators, sight glasses, valves and a full range of accessories from one resourceful partner? Tank equipment is our business. We have all you need.

### **Become an Alfa Laval partner...**

Access our 24/7 online ordering system. It's simple and efficient. Your customers can't afford to be kept waiting. Talk to us, we have the know-how and experience to help you solve the most challenging process problems.

### **A loyal business partner**

We know about tanks, but we don't build them. That's your business. While we show end-users the benefits of Alfa Laval products through our global marketing, we sell our sanitary tank equipment through partners like you. You'll find us a loyal business partner.

### **Easy to do business with**

As an Alfa Laval business partner you have full access to all product information on-line 24 hours per day, 365 days per year. Our simple order handling procedures are supported by our comprehensive worldwide component catalogue which makes product selection and dimensioning easy.

For the tank user...

### **We accept any tank cleaning challenge, however tough**

Whatever your industry, talk to us about your toughest tank cleaning challenges. We have the know-how, experience and state-of-the-art technology to provide an efficient, cost-effective CIP solution that will save money and raise the overall output of your production operation.

Once your Alfa Laval equipment is installed, our offices around the world are standing by to support you with parts, service and advice. Our "Nonstop Performance" service commitment will give you the back-up you need to keep you up and running at all times.

*Think Tank. Think Alfa Laval.*



The best on the market, our advanced Toftejorg tank cleaning systems are the result of decades of product development and testing.