



Ten top tips collection

Alfa Laval 360° Service Portfolio Extending Performance

Ten top tips to keep your Alfa Laval hygienic gasketed plate heat exchanger in tip top condition

- 1 Make sure that the operating conditions (temperature and flow rates) comply with the design specifications.
- 2 At start-up, vent the heat exchanger hot open and close the valves slowly to avoid pressure surges and water hammer.
- 3 Use upstream filters and strainers to remove particulate loading and protect the heat exchanger.
- 4 On a daily basis check for any changes in temperature or pressure and check for any signs of external leaks.
- 5 On a regular basis keep the tightening bolts clean and well lubricated.
- 6 Use condition monitoring techniques to avoid having to open the heat exchanger for inspection.
- 7 Use Cleaning in Place (CIP) to avoid the need to open the heat exchanger for cleaning.
- 8 Always keep stand by units clean and dry. If a package is taken out of service, flush with water and drain to completely.
- 9 Protect heat exchangers from water splash and avoid overfilling.



Ten top tips to keep your Alfa Laval valve in tip top condition

- 1 Make regular service and maintenance on your Alfa Laval valves for them to be able to perform optimally. The most cost-effective approach is following our simple preventive maintenance programme, which will prolong the lifespan of your Alfa Laval valves.
- 2 Use uniform air quality in operating the valves, i.e. avoiding dust, water and oil in the air system for a longer lifetime and service interval for the actuators.
- 3 Daily operate within temperature ranges specified in the instruction manual to ensure smooth operation.
- 4 Follow the technical data during installation, operation and maintenance to ensure correct operation.
- 5 Regularly inspect your Alfa Laval valve for leaks to ensure the process is running efficiently.
- 6 Carefully monitor the cleaning process since the composition of the cleaning solution can over time affect the rubber.
- 7 In order to obtain the longest possible lifetime for rubber seals it is essential to choose the right quality for the actual duty.
- 8 Always use Alfa Laval genuine spare parts which are designed for durability and performance.
- 9 For product wetted parts ensure lubrication with Paraflex GTE 700 or a similar approved grease and make sure you use Alfa Laval service restorer.
- 10 Always keep Alfa Laval spare rubber seals in stock to avoid unplanned downtime.




Ten top tips to keep your Alfa Laval tank equipment in tip top condition

- 1 Regularly inspect your Alfa Laval tank equipment following scheduled service intervals. This will always keep your Alfa Laval tank equipment in good condition which will prolong the lifespan of your Alfa Laval tank equipment.
- 2 Follow our simple preventive maintenance programme to ensure your Alfa Laval tank equipment is in tip top condition for service.
- 3 Take trip records for preventive maintenance programme based on design operating conditions, if conditions is recommended under field tank equipment according to Alfa Laval guidelines.
- 4 Always clean tanks and inspect your Alfa Laval tank equipment according to Alfa Laval guidelines.
- 5 Always clean components prior to assembly to avoid extra wear on your machine parts.
- 6 Use only cleaning media as specified in the instruction manual.
- 7 Only operate within ranges specified in the instruction manual to ensure smooth operation.



Ten top tips to keep your Alfa Laval rotary lobe pump in tip top condition

- 1 Make regular service and maintenance to ensure optimum performance.
- 2 Check mechanical seals and gaskets regularly for leaks and replace when necessary.
- 3 Oil level in the gearbox should be checked regularly and re-filled when necessary. Check manual for re-lubrication schedule.
- 4 When checking pump suction and discharge pressures it is essential to install pressure gauges on both suction and discharge sides of the pump to do both before and after the pump. Any pipework that any problems with the pump seals or pipework system can be monitored.
- 5 Observe the technical data during installation, operation and maintenance bearing special attention to the warnings indicated in the documentation.
- 6 Always use Alfa Laval genuine spare parts which are designed for durability and performance.
- 7 Check to ensure that the Alfa Laval rotary lobe pump is operating in accordance with recommended parameters.
- 8 Do not operate at capacity changes, e.g. capacity over/under, check in the computer aided by CAS or with Alfa Laval if the pump is not in the application.
- 9 Schedule preventative maintenance after start-up to avoid unexpected downtime and risk to the application.
- 10 Watch Alfa Laval service and maintenance videos to learn how to do simple maintenance on your Alfa Laval rotary lobe pumps.




Ten top tips to keep your Alfa Laval LKH Pump in tip top condition

- 1 Make regular service and maintenance to be able to perform optimally.
- 2 Check the pump visually on a regular basis, ensuring you discover maintenance needs early when they are easy to solve.
- 3 Schedule preventative maintenance after 12 months to avoid unexpected downtime and to maximize lifetime and value.
- 4 Check to ensure that the Alfa Laval LKH Pump is operating in accordance with recommended design parameters.
- 5 Observe the technical data during installation, operation and maintenance and pay special attention to the warnings indicated in the documentation.
- 6 Check to make sure water has been connected so that the shaft seal does not run dry. Dry running will damage the shaft seal and could lead to a damaged pump.
- 7 Always rinse well with clean water after using a cleaning agent.
- 8 Design parameters change, e.g. capacity/pressure/flow. Fluid check in the Control Assist Software (CAS) or with Alfa Laval if the pump is still suitable for the application.
- 9 Always keep an Alfa Laval service kit in stock to avoid unplanned downtime.
- 10 Watch Alfa Laval service and maintenance videos to learn how to do simple maintenance on your Alfa Laval LKH pumps.




Ten top reasons to use Alfa Laval genuine spare parts

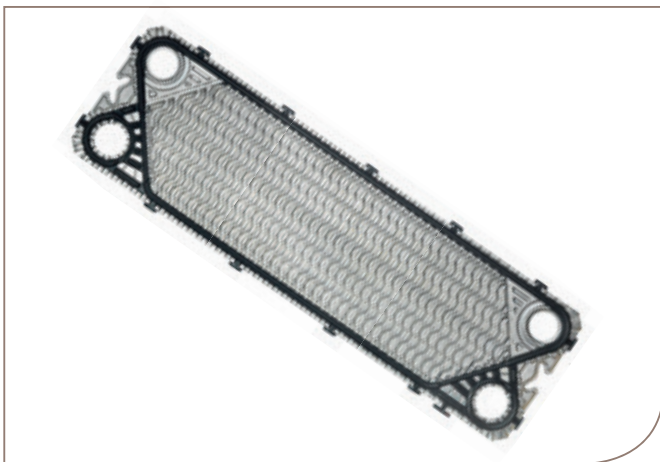
- 1 Using Alfa Laval genuine spare parts will protect your Alfa Laval equipment because they are designed for long environmental lifespan.
- 2 All Alfa Laval genuine spare parts are engineered to the highest standards and optimized for your process and application.
- 3 Using Alfa Laval genuine spare parts will guarantee Alfa Laval equipment reliability and equipment life.
- 4 Alfa Laval genuine spare parts provide assurance of consistent operation.
- 5 Non-genuine parts can increase the risk of unplanned downtime.
- 6 Each service kit contains all the spare parts needed.
- 7 Using Alfa Laval genuine spare parts ensures the longest possible time of operation over the lifetime of your Alfa Laval equipment.
- 8 Alfa Laval genuine spare parts are continuously improved to meet the highest demands, extensive testing in the FDA, EU regulations, 3-A, EHEDG, ASME, etc.
- 9 Comprehensive documentation packages are available for Alfa Laval genuine spare parts. This includes a service identification and selection process, and provides step-by-step instructions.
- 10 Alfa Laval genuine spare parts are available around the globe - through our extensive network of channel partners and distribution centres.



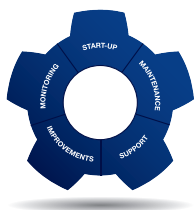

Ten top tips

to keep your Alfa Laval hygienic gasketed plate heat exchanger in tip top condition

- 1 Make sure that the operating conditions (temperatures and flow rates) comply with the design specifications.
- 2 At start-up, vent the heat exchanger but open and close the valves slowly to avoid pressure surges and water hammer.
- 3 Use upstream filters and strainers to remove particulate fouling and protect the heat exchanger.
- 4 On a daily basis check for any changes in temperature or pressure and check for any signs of external leaks.
- 5 On a regular basis keep the tightening bolts clean and well-lubricated.
- 6 Use condition monitoring techniques to avoid having to open the plate heat exchanger for inspection.



- 7 Use Cleaning-In-Place (CIP) to avoid the need to open the heat exchanger for cleaning.
- 8 Always keep stand-by units clean and dry. If a heat exchanger is taken out of service, flush with fresh water and drain it completely.
- 9 Protect heat exchangers from water splash. Avoid exposure to ultra violet rays and ozone typically generated from electrical sources.
- 10 Only use Alfa Laval genuine spare parts for guaranteed performance, reliability and equipment life. Maintain a stock of essential spare parts and follow the storage instructions.



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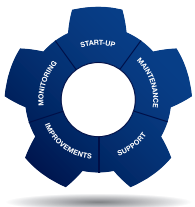
Ten top tips

to keep your Alfa Laval valve in tip top condition

- 1 Make regular service and maintenance on your Alfa Laval valves for them to be able to perform optimally. The most cost-effective approach is following our simple preventive maintenance programme, which will prolong the lifespan of your Alfa Laval valves.
- 2 Use optimum air quality in operating the valves, i.e. avoiding dust, water and oil in the air system for a longer lifetime and service interval on the actuators.
- 3 Only operate within temperature ranges specified in the instruction manual to ensure smooth operation.
- 4 Follow the technical data during installation, operation and maintenance to ensure correct operation.
- 5 Regularly inspect your Alfa Laval valve for leakage to ensure your process is running efficiently.



- 6 Carefully monitor your cleaning process since the composition of the cleaning solution can over time affect the rubber.
- 7 In order to obtain the longest possible lifetime for rubber seals it is essential to choose the right quality for the actual duty.
- 8 Always use Alfa Laval genuine spare parts which are designed for durability and performance.
- 9 For product wetted parts ensure lubrication with Paraliq GTE 703 or a similar approved grease which makes maintaining your Alfa Laval valve easier.
- 10 Always keep Alfa Laval spare rubber seals in stock to avoid unplanned downtime.



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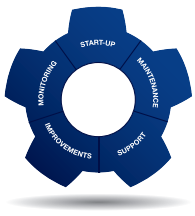
Ten top tips

to keep your Alfa Laval rotary lobe pump in tip top condition

- 1 Make regular service and maintenance to ensure optimal performance.
- 2 Check mechanical seals and gearbox lipseals for leakage and replace when necessary.
- 3 Oil level in the gearbox should be checked regularly and re-filled where necessary, check manual for re-lubrication schedule.
- 4 When checking pump suction and discharge pressures, it is advisable to install pressure gauges on both suction and discharge sides of the pump so that any problems within the pump and/or pipework system can be monitored.
- 5 Observe the technical data during installation, operation and maintenance paying special attention to the warnings indicated in the documentation.



- 6 Always use Alfa Laval genuine spare parts which are designed for durability and performance.
- 7 Check to ensure that the Alfa Laval rotary lobe pump is operating in accordance with recommended design parameters.
- 8 If design parameters change, e.g. capacity/pressure/new liquid, check in the Computer Aided Software (CAS) or with Alfa Laval if the pump is still suitable for the application.
- 9 Schedule preventative maintenance after 12 months to avoid unscheduled downtime and maximize lifetime and value.
- 10 Watch Alfa Laval service and maintenance videos to learn how to do simple maintenance on your Alfa Laval rotary lobe pumps.



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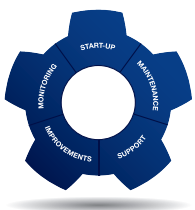
Ten top tips

to keep your Alfa Laval tank equipment in tip top condition

- 1 Regularly maintain your Alfa Laval tank equipment following scheduled service intervals. This will always keep your Alfa Laval tank equipment in good condition.
- 2 Follow our simple preventive maintenance programme, which will prolong the lifespan of your Alfa Laval tank equipment.
- 3 Take into account our preventive maintenance programme is based on average operating condition, if you are operating your Alfa Laval equipment under hard conditions it is recommended to service more often.
- 4 Always disassemble and assemble your Alfa Laval tank equipment according to Alfa Laval guidelines.
- 5 Always clean components prior to assembly to avoid extra wear on your machine parts.
- 6 Use only cleaning media as specified in the instruction manual.



- 7 Only operate within ranges specified in the instruction manual to ensure smooth operation.
- 8 After use, flush your Alfa Laval tank equipment with fresh water. Cleaning solutions should never be allowed to dry or set-up in the system due to possible "salting out" or "scaling" of the cleaning ingredient.
- 9 Always keep an Alfa Laval service kit in stock to avoid unplanned downtime.
- 10 Always fill in an Alfa Laval service card to register the maintenance carried out so that you can easily document the service history on your Alfa Laval tank equipment.



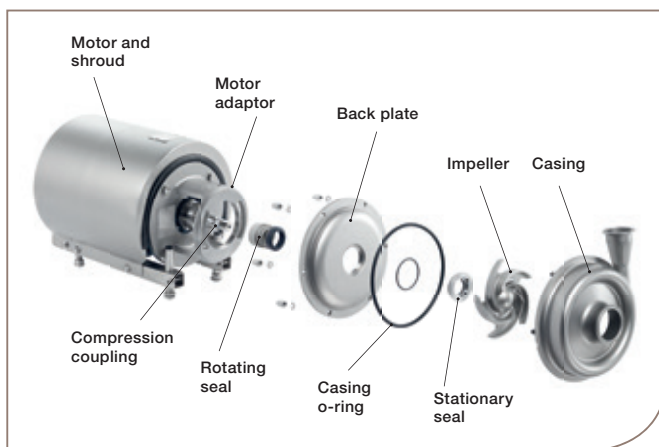
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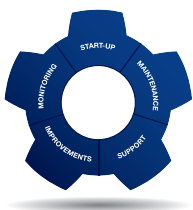
Ten top tips

to keep your Alfa Laval LKH Pump in tip top condition

- 1 Make regular service and maintenance to be able to perform optimally.
- 2 Check the pump visually on a regular basis, ensuring you discover maintenance needs early when they are easy to solve.
- 3 Schedule preventative maintenance after 12 months to avoid unscheduled downtime and to maximize lifetime and value.
- 4 Check to ensure that the Alfa Laval LKH Pump is operating in accordance with recommended design parameters.
- 5 Observe the technical data during installation, operation and maintenance and pay special attention to the warnings indicated in the documentation!
- 6 Check to make sure water has been connected so that the shaft seal does not run dry. Dry running will damage the shaft seal and could lead to a damaged pump.



- 7 Always rinse well with clean water after using a cleaning agent.
- 8 If design parameters change, e.g. capacity/pressure/new liquid check in the Computer Aided Software (CAS) or with Alfa Laval if the pump is still suitable for the application.
- 9 Always keep an Alfa Laval service kit in stock to avoid unplanned downtime.
- 10 Watch Alfa Laval Service and maintenance videos to learn how to do simple maintenance on your Alfa Laval LKH pumps.



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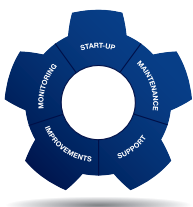
Ten top reasons

to use Alfa Laval genuine spare parts

- 1 Using Alfa Laval genuine spare parts will protect your Alfa Laval equipment because they are designed and manufactured for durability, productivity, and less environmental impact.
- 2 All Alfa Laval genuine spare parts are engineered to the highest standard and optimized to fit your product and application.
- 3 Using Alfa Laval genuine spare parts will guarantee performance, reliability and equipment life.
- 4 Alfa Laval genuine spare parts provide assurance of continuous operation.
- 5 Non-genuine parts can increase the risk of unplanned downtime.
- 6 Each service kit contains all the spare parts you need.



- 7 Using Alfa Laval genuine spare parts ensures the lowest possible total cost of ownership over the entire life cycle of your quality Alfa Laval equipment.
- 8 Alfa Laval genuine spare parts are continuously improved to meet the highest demands expressed in various legislation and industry specific standards such as, FDA, EU-regulations, 3-A, EHEDG, ASME BPE, etc.
- 9 Comprehensive documentation packages are available for Alfa Laval genuine spare parts. This ensures a smooth qualification and validation process, and provides long-term peace of mind.
- 10 Alfa Laval genuine spare parts are available around the clock – through our extensive network of channel partners and distribution centres.



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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, foodstuff, 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