



Centrifugal pumps

Preventive maintenance guidelines

Plan your budget and your downtime

A production stop caused by poor operation or breakdown is costly, in both lost production and expensive servicing.

The most cost-effective way to ensure product safety and production reliability is to plan and carry out service at scheduled intervals.

Using the Alfa Laval guidelines it is easy to plan the relevant maintenance intervals. You can plan your operating budget and the risk of breakdowns is virtually eliminated. Preventive maintenance makes sense financially.

Instruction manuals and service videos



Detailed manuals are supplied with every product. Service and maintenance videos have been created to enable you to service Alfa Laval products in a correct and efficient way. Scan the QR code to access the service videos.

Genuine spare parts and service kits



Alfa Laval Service Kits are available for scheduled maintenance. They contain all the relevant parts needed for general service. Using genuine Alfa Laval spare parts guarantees the right quality and composition of materials. Needless to say they come with full traceability. Scan the QR code to access the spare parts catalogue.



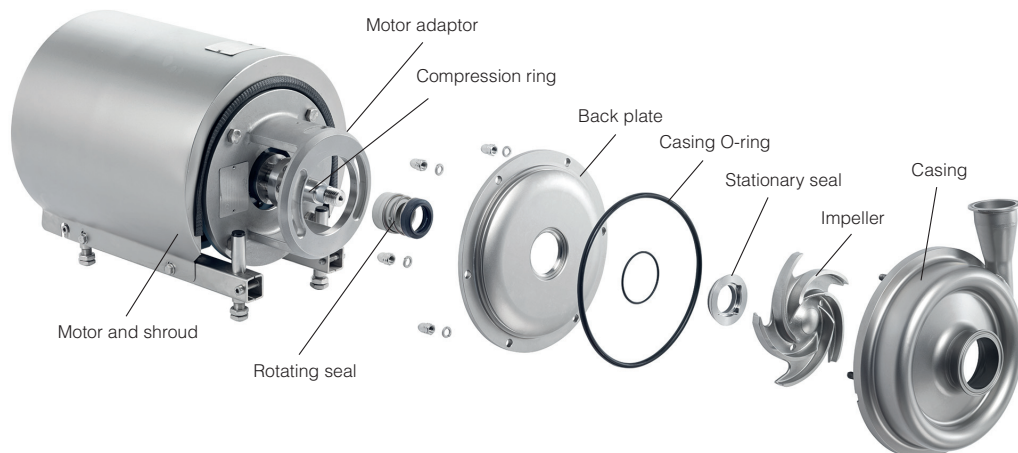
Alfa Laval service tools

Alfa Laval has the specific tools required to service Alfa Laval hygienic equipment. These include tools for installing, operating and maintaining our hygienic equipment.

Using genuine spare parts ensures your certificates are still valid.



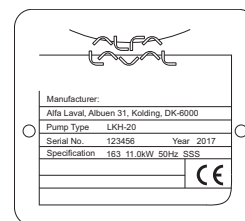
Example of exploded view - LKH



Inspect the pump regularly

The Alfa Laval pumps are available in various configurations to fit specific applications. To inspect the pump you need to know the type of pump and which type of seal is used. This information can be found on the name plate of your pump. Further information can be obtained online using the serial number.

Preventive maintenance aims to prevent equipment failures with e.g. regular inspection and lubrication. Based on experience and knowledge of the running conditions it is also possible to replace wear parts before they fail. Keeping a maintenance log is a good way to build experience.



Keep a record of the pump, use the statistics for inspection planning LKH, LKH Evap, LKHI, LKHPF, LKHM, LKHex, SolidC, i-CP, FM-OS, GM, LKH Prime, MR	Supplier Instruction	Inspect / Clean / Lubricate		
		Weekly	Monthly	Yearly
Over all pump				
- Keep pump clean and protected from the environment		x		
- Listen for unusual noise		x		
- Keep a record of the pump		x		
- Use the statistics for inspection planning				
Shaft seal				
- Inspect for leakage (* SSS; FSS; DMSS/DSS)		x		
- Flow rate of flushing (* FSS, DMSS/DSS)		x		
Motor	x			
Motor surface temperature			x	
Bearing temperatures			x	
Bearing vibration			x	
Inspect motor bearings				x
Pump head				
Check pump head and flow rate			x	
** Check for internal wear and pitting				x

* SSS=Single shaft seal, FSS= Flushed single shaft seal, DMSS/DSS= Double mechanical shaft seal

** Service kit contains all necessary parts for replacing shaft seals.

Scheduled maintenance intervals

To ensure that your pumps operate efficiently, it is essential to follow a simple preventive maintenance programme, which will keep your machine in good working order. Good maintenance requires careful attention at regular intervals. For pump lubrication please always refer to the manual for specific information on oil/grease types and required maintenance. **Alfa Laval recommends:**

- Replaced service kits after 12 months. Always replace shaft seal and o-rings at the same time.
- Inspect motor bearings yearly, replace complete bearing if worn, ensure that the bearing is axially locked (See motor instructions)

To replace the shaft seal it is necessary to remove the pump casing. This is a good opportunity to inspect the casing, impeller and backplate for signs of wear and cavitation. This should be done at least once a year and recorded in the pump maintenance log.

After commissioning, having ensured that the installation is stress-free and the pump is running without cavitation, the vibrations should be measured and recorded. Excessive vibrations will reduce the life span of the bearings. An increase in vibrations may indicate that the bearings should be replaced. Bearing temperatures depend on several factors incl. the temperature of the surroundings. Consequently it is not possible to state an absolute temperature. However, if the temperature does rise above normal, this may be an indication that the bearings should be replaced. Temperatures above 100°C will significantly reduce the life span of the grease. Please note that some motor bearings are permanently greased while others need regular relubrication. Please always refer to the manual for specific information on bearing types and required maintenance.

The above guidelines may not apply in all working conditions.

Please contact Alfa Laval for information relating to specific applications.

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.