Alfa Laval Centrifugal Pumps

Preventive maintenance guidelines

Plan your budget and your downtime

A production stop caused by poor operation or breakdown is costly. Both due to lost product and expensive service.

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 are able to plan your operating budget and the risk of breakdowns is virtually eliminated. Financially, preventive maintenance makes sense.

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

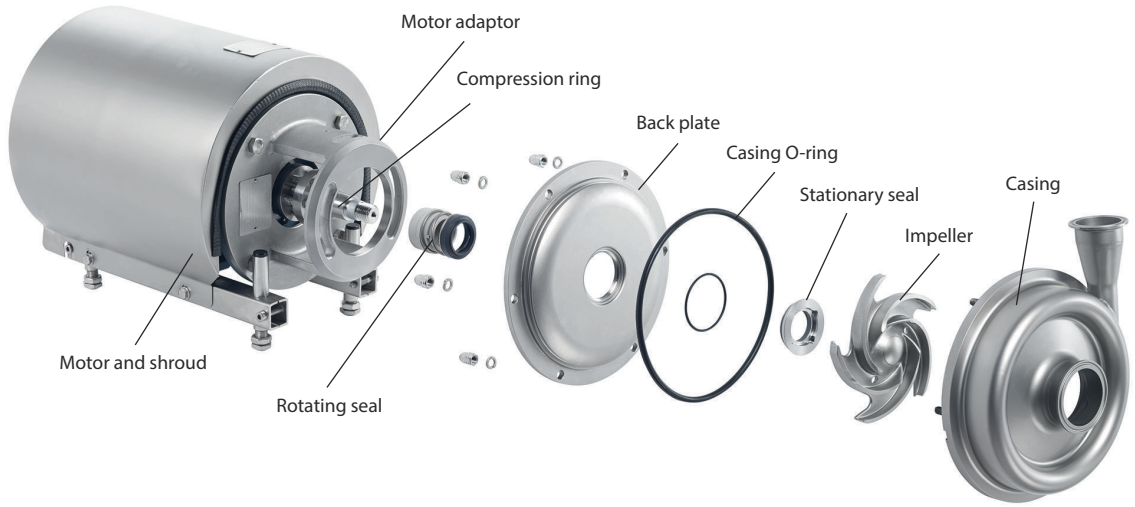
Alfa Laval Service Kits are available for scheduled maintenance. They contain all the relevant parts needed for general service. Using genuine Alfa Laval spare parts guarantees the right quality and composition of materials. They of course come with full traceability. Scan the QR code to access the spare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

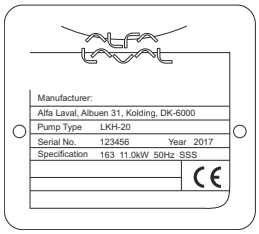
Using genuine spare parts ensures your certicates are still valid.

Example of exploded view - LKH Pumps



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 is available on the name plate of your pump. Further information can be obtained online by using the serial number. Preventive maintenance aims to prevent failure of equipment by doing e.g. regular inspection and lubrication.Based on experience and knowledge about 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		Inspect / Clean / Lubricate		
LKH, LKH Evap, LKHI, LKHPF, LKHM, LKHex, SolidC, i-CP, FM-OS, GM, LKH Prime, MR	**Supplier instruction**	**Weekly**	**Monthly**	**Half-yearly**
Over all pump				
Keep pump clean and protected from environment		X		
Listen for unusual noise		X		
Keep a record of the pump		X		
Use the statistics for inspection planning				
Shaft seal				
Inspection 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	
Inspection 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.

** During replacing shaft seals, service kit contains all necessary parts.

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 condition. 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 recommend**:

- Service kit should be replaced 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)

After commissioning, when it is ensured, that the pump is installed stress free and 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. If however an increase in temperature above that of normal recorded takes place, it may be an indication that the bearings should be replaced. Temperatures above 100°C will significantly reduce the life span of the grease. Please notice that some motor bearings are permanently greased whilst 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.

200008425-1-EN-GB