Alfa Laval Magnetic Mixers

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

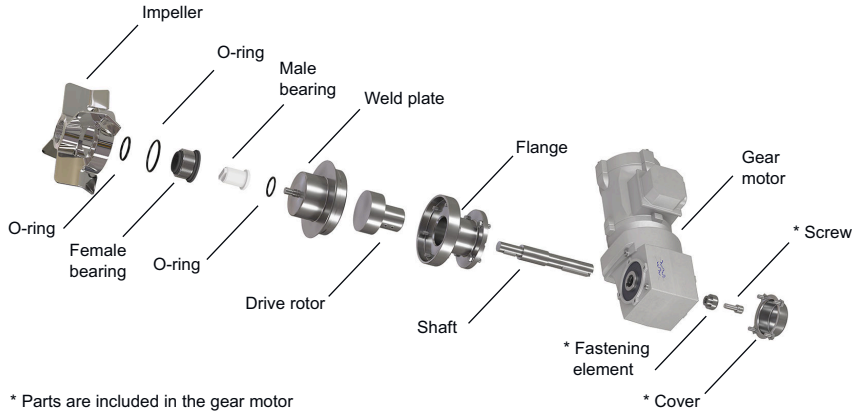
Alfa Laval Service Kits are available for scheduled maintenance. They contain all the relevant parts needed for general service. Using genuine Alfa Laval spare parts guarantees the right quality and composition of materials. They of course come with full traceability. Scan the QR code to access the spare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

Example of exploded view - LeviMag® UltraPure



Inspect the magnetic mixer regularly

Preventive maintenance aims to prevent failure of equipment by doing e.g. regular lubrication and adjustments. 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. After the first 25 hours of operation, listen for abnormal sounds. If any, dismount the mixer and check all parts for scratches and dents. Alfa Laval recommend that the bearings and O-rings should be checked for cleanability and wear after one month of operation. If there is abnormal wear on either component, contact Alfa Laval for further instructions. Regular inspections should be performed at least every 6th months or as according to local preventive maintenance plans.If any component is found damaged during inspection, please contact Alfa Laval for repair and/or replacement parts. All wear parts or damaged parts should be replaced only with Alfa Laval genuine spare parts.

Possible damages on the parts are listed below:

No.	Component	Check zone	Description	Control method	Action
1	Impeller	Surfaces and edges	- scratches, foreign particles - tolerance on bearing surface	- visual - measuring	- cleaning - change bearing
2	Female bearing	Surfaces and edges Thread	- scratches- tolerance on surface - damage on thread	- visual - measuring - visual	- change bearing
3	Male bearing	Surfaces and edges Thread	- scratches- tolerance on surface - damage on thread	- visual - measuring - visual	- change bearing
4	O-rings	Surface	- deformed- cracks	- visual	- change O-rings
5	Weld Plate	Surfaces and edges Thread	- damage on thread - damage on outer OD	- visual - measuring	- re-thread, if possible - re-polish, if possible
6	Drive Unit	Drive rotor Gear motor Motor	- foreign particles on parts - leaks or noises - cable failure	- visual - audible	- cleaing - change gear motor - repair gear motor

The clearance between female and male bearing should not exceed 0.15 mm.

If the value exceeds – Alfa Laval recommend changing both bearings.

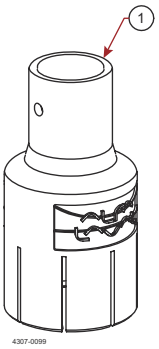
Scheduled maintenance intervals

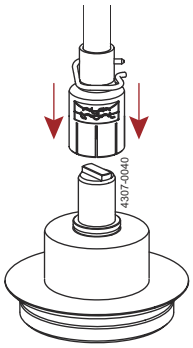
To ensure that your Alfa Laval LeviMag® operates efficiently, it is essential to follow a simple preventive maintenance program, which will keep your machine in good working conditions. Good maintenance requires careful attention at regular intervals. The following recommended preventive maintenance procedures are based on the average operating conditions of most Alfa Laval magnetic mixers. A mixer which is subject to abrasive fluids, will need more frequent attention than one working in ideal conditions. The maintenance program should be adjusted to meet the demands of your normal operating condition.

Alfa Laval recommend that bearings and O-rings are inspected at least every 6 months. Alfa Laval recommend that bearings and O-rings are replaced at least every 6000 operating hours or every 3rd year.

LeviMag® service tool example (for more information please refer to the manual)

Use the male bearing tool with a lifting rod to remove the male bearing and replace O-ring.





A lifting rod with handle & tool	Male bearing tool
A lifting rod with different length can be purchased from Alfa Laval	It is included when ordering male bearing Service kits.

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.

This document and its contents are subject to copyrights and other intellectual property rights owned by Alfa Laval Corporate AB. No part of this document may be copied, re-produced or transmitted in any form or by any means, or for any purpose, without Alfa Laval Corporate AB's prior express written permission. Information and services provided in this document are made as a benefit and service to the user, and no representations or warranties are made about the accuracy or suitability of this information and these services for any purpose. All rights are reserved.

© Alfa Laval Corporate AB

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