

omd 800-648-3326
oliver m. dean, inc. www.omdean.com

Operations Manual

LKH Centrifugal Pump



Alfa Laval

Introduction

Thank you for purchasing an Alfa Laval Flow Inc. product.

This manual has been provided to instruct you how to operate and service this product correctly and safely. Be sure to follow all directions and instructions; failure to do so could result in personal injury or equipment damage.

This manual should be considered part of this product and should remain with it at all times for reference. (If you sell it, please be sure to include this manual with it).

Warranty is provided as part of Alfa Laval Flow Inc's. commitment to our customers who operate and maintain their equipment as this manual dictates. Failure to do so may result in loss of warranty.

Where defects appear on the product during the warranty period, Alfa Laval Flow Inc. will back the product and correct the problem. Should the equipment be modified or not kept in the manner prescribed within this manual, the warranty will become null and void.

Table of contents

This manual is divided into main sections. - See below.

Please note that the pages 23-59 support the reading of the manual.

1

Safety

1. Important information 2
2. Warning signs 2
3. Safety precautions 3

Installation

1. Unpacking/Delivery 4
2. Installation 5
3. Pre-use check 6

Operation

1. Operation/Control 7
2. Troubleshooting 8
3. Recommended cleaning 9

Maintenance

1. General maintenance 10
2. Dismantling of pump/shaft seals 12
3. Reassembly of pump/single shaft seal 14
4. Reassembly of pump/flushed shaft seal 16
5. Adjustment of shaft 18
6. Reassembly of pump/double mechanical shaft seal 20

Technical data

1. Technical data 22

Drawings/Parts list

1. Exploded drawing (LKH-5) 23
2. Drawing/Parts list (LKH-5) 24
3. Exploded drawing (LKH-10) 27
4. Parts list (LKH-10) 28
5. Exploded drawing (LKH-15) 30
6. Parts list (LKH-15) 31
7. Exploded drawing (LKH-20) 33
8. Parts list (LKH-20) 34
9. Exploded drawing (LKH-25) 36
10. Parts list (LKH-25) 37
11. Exploded drawing (LKH-35) 39
12. Parts list (LKH-35) 40
13. Exploded drawing (LKH-40) 42
14. Parts list (LKH-40) 43
15. Exploded drawing (LKH-45) 45
16. Parts list (LKH-45) 46
17. Exploded drawing (LKH-50) 48
18. Parts list (LKH-50) 49
19. Exploded drawing (LKH-60) 51
20. Parts list (LKH-60) 52
21. Drawing (LKH-10-60) 54
22. Exploded drawing (LKH-70) 55
23. Drawing/Parts list (LKH-70) 56
24. Notes/User Feedback 59

Alfa Laval

Safety

Unsafe practices and other important information are emphasized in this manual.

Warnings are emphasized by means of special signs.

1. Important information

Always read the manual before using the pump!

2

WARNING!

: Indicates that special procedures **must** be followed to avoid severe personal injury.

CAUTION!

: Indicates that special procedures **must** be followed to avoid damage to the pump.

NOTE!

: Indicates important information to simplify practices or to make them clearer.

2. Warning signs



: General warning.



: Dangerous electrical voltage.



: Caustic agents.

All warnings in the manual are summarized on this page.

Pay special attention to the instructions below so that severe personal injury and/or damage to the pump are avoided.

3. Safety precautions

Installation:



- : **Always** read the technical data thoroughly (see page 22).
- : **Always** use a lifting crane when handling the pump.
- : **Always** have the pump electrically connected by authorized personnel (see the motor instructions).
- : **Pump without impeller screw:**
 - **Always** remove the impeller before checking the direction of rotation.
 - **Never** start the pump if the impeller is fitted and the pump casing is removed.**Pump with impeller screw:**
 - **Never** start in the wrong direction of rotation with liquid in the pump.

3

Operation:



- : **Always** read the technical data thoroughly (see page 22).
- : **Never** touch the pump or the pipelines when pumping hot liquids or when sterilizing.
- : **Never** run the pump with both the suction side and the pressure side blocked.
- : **Always** handle lye and acid with great care.

Maintenance:



- : **Always** read the technical data thoroughly (see page 22).
- : **Always** disconnect the power supply when servicing the pump.
- :
 - **Never** service the pump when it is hot.
 - **Never** service the pump with pump and pipelines under pressure.
- : **Motors with grease nipples:**
Remember lubrication according to information plate/label on the motor.

Installation

The instruction manual is part of the delivery.
Read the instructions carefully.
The standard delivery does not include the test certificate. This can be supplied on request.

4

1. Unpacking/Delivery

1

! Always use a lifting crane when handling the pump (see technical data).

CAUTION!

Alfa Laval Flow Inc. cannot be held responsible for incorrect unpacking.

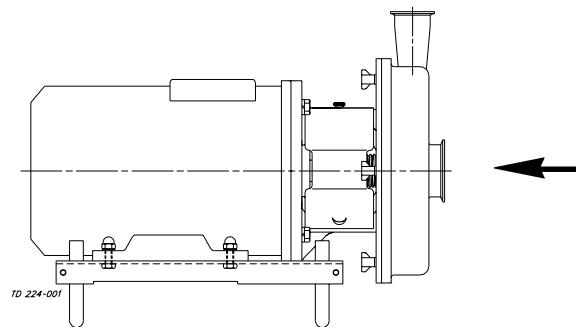
Check the delivery for:

1. Complete pump.
2. Delivery note.
3. Motor instructions.
4. Test certificate, IF ORDERED!!

The large pump sizes are very heavy.
Alfa Laval Flow Inc. therefore recommends the use of a lifting crane when handling the pump.

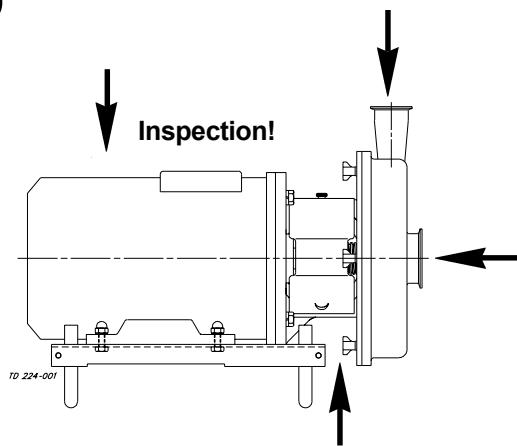
2

Remove packing materials!



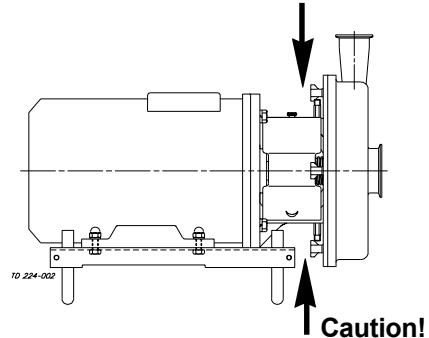
Remove possible packing materials from the inlet and the outlet.

3



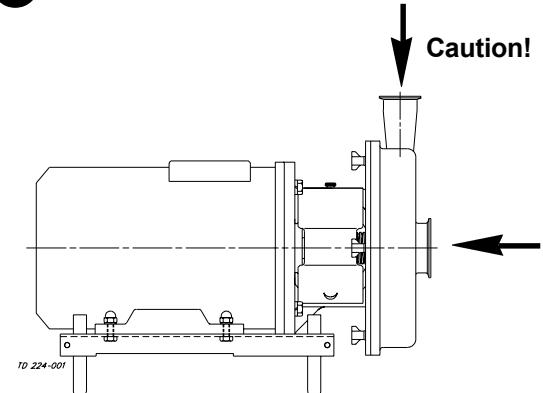
Inspect the pump for visible transport damages.

5



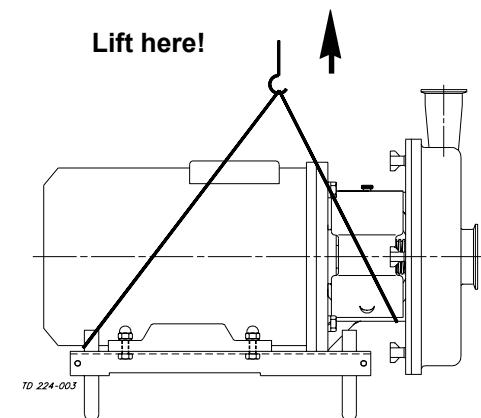
Avoid damaging the connections for flushing liquid, if supplied.

4



Avoid damaging the inlet and the outlet.

6



Installation

Read the instructions carefully and pay special attention to the warnings!
Always check the pump before operation.
- See pre-use check on page 6.

2. Installation

1

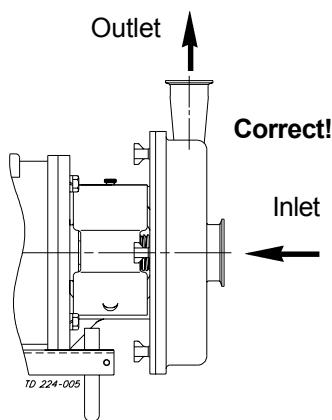
-  **Always** read the technical data thoroughly (see page 22).
-  **Always** use a lifting crane when handling the pump (see technical data).
-  **Always** have the pump electrically connected by authorized personnel (see the motor instructions).

CAUTION!

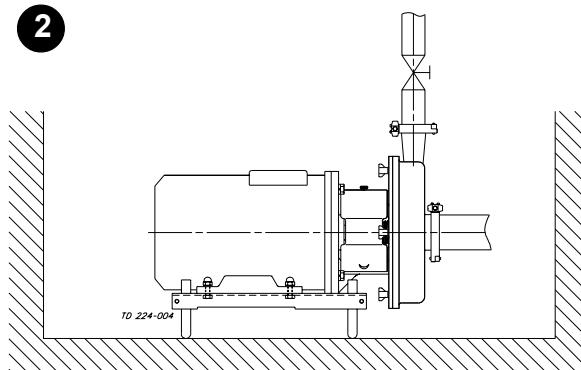
We cannot be held responsible for incorrect installation.

3

Check that the flow direction is correct.



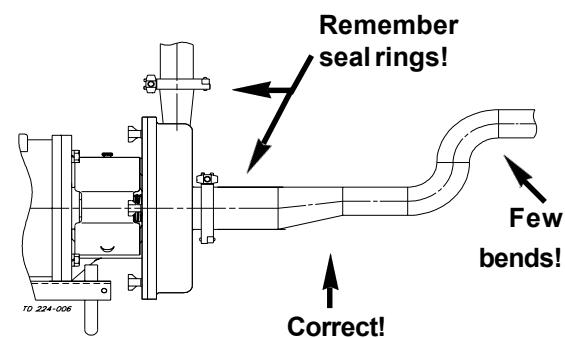
2



5

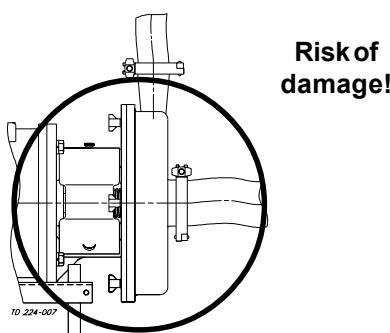
Ensure that there is sufficient clearance around the pump (minimum 2 ft).

4



1. Ensure that the pipelines are routed correctly.
2. Ensure that the connections are tight.

5



Avoid stressing the pump.

Pay special attention to:

- Vibrations.
- Thermal expansion of the tubes.
- Excessive welding.
- Overloading of the pipelines.

Alfa Laval

Installation

Read the instructions carefully and pay special attention to the warnings!

Check the direction of rotation of the impeller before operation.

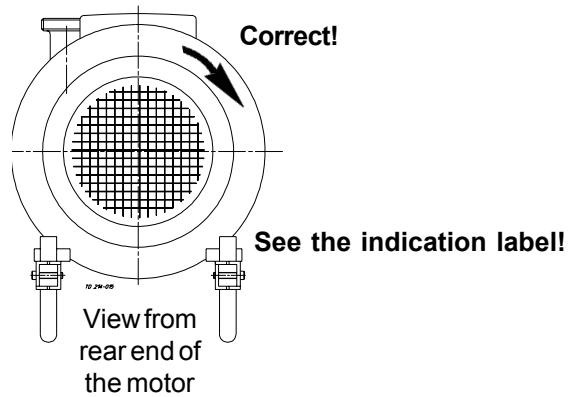
- See the indication label on the pump.

3. Pre-use check - Pump with impeller screw

6

⚠ **Never** start in the wrong direction of rotation with liquid in the pump.

1. Start and stop the motor momentarily.
2. Ensure that the direction of rotation of the motor fan is **clockwise** as viewed from the rear end of the motor.



Operation

Read the instructions carefully and pay special attention to the warnings!

1. Operation/Control

1

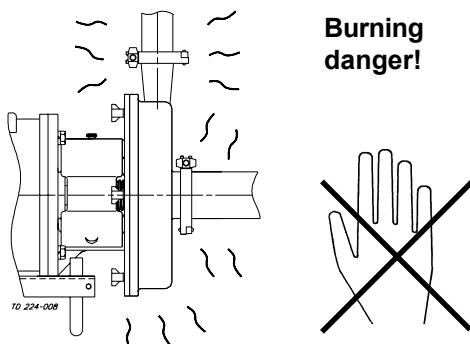
! Always read the technical data thoroughly (see page 22).

CAUTION!

Alfa Laval Flow Inc. cannot be held responsible for incorrect operation/control.

The pump is fitted with a warning label indicating correct throttling.

2

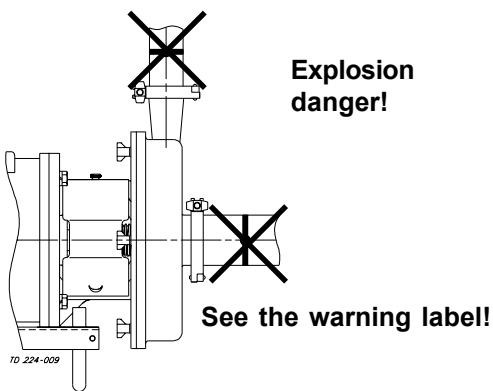


7

!

Never touch the pump or the pipelines when pumping hot liquids or when sterilizing.

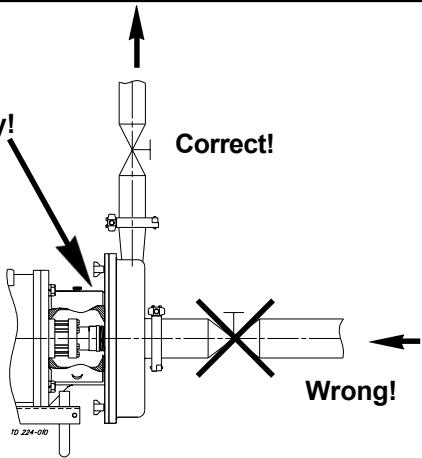
3



!

Never run the pump with both the suction side and the pressure side blocked.

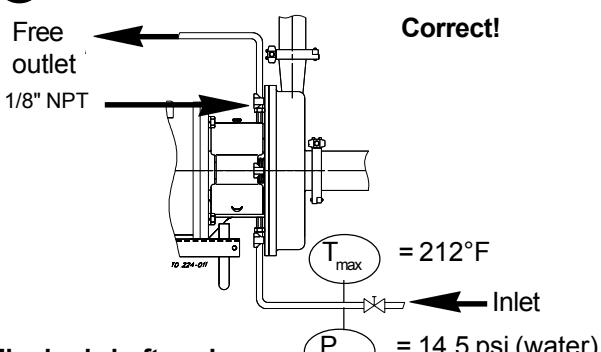
4



CAUTION!

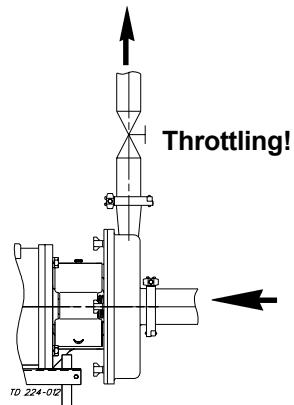
- The shaft seal must **not** run dry.
- **Never** throttle the inlet side.

5



1. Connect the inlet of the flushing liquid correctly.
2. Regulate the water and steam supply correctly.
3. Observe the steam data.

6



Control:

Reduce the capacity and the power consumption by means of:
- Throttling the pressure side of the pump.
- Reducing the impeller diameter.
- Reducing the speed of the motor.

Alfa Laval

Operation

Pay attention to possible faults.

Read the instructions carefully.

2. Troubleshooting

NOTE!

Read the maintenance instructions carefully before replacing worn parts. - See page 10!

8

Problem	Cause/result	Remedy
Overloaded motor	<ul style="list-style-type: none">- Pumping of viscous liquids- Pumping of liquids with high density- Low outlet pressure (counter pressure)- Lamination of precipitates from the liquid	<ul style="list-style-type: none">- Larger motor or smaller impeller- Higher counter pressure (throttling)- Frequent cleaning
Cavitation: <ul style="list-style-type: none">- Damage- Pressure reduction (sometimes to zero)- Increasing of the noise level	<ul style="list-style-type: none">- Low inlet pressure- High liquid temperature	<ul style="list-style-type: none">- Increase the inlet pressure- Reduce the liquid temperature- Reduce the pressure drop before the pump- Reduce speed
Leaking shaft seal	<ul style="list-style-type: none">- Dry run (See page 7)- Incorrect rubber grade- Abrasive particles in the liquid	Replace: All wearing parts (See page 10) If necessary: <ul style="list-style-type: none">- Select a different rubber grade- Select stationary and rotating seal ring in Silicon Carbide/Silicon Carbide
Leaking seals	Incorrect rubber grade	Replace with seals of a different rubber grade

Operation

The pump is designed for cleaning in place (CIP).
CIP = Cleaning In Place.

Read the instructions carefully and pay special attention to the warnings!
NaOH = Caustic Soda.
 HNO_3 = Nitric acid.

3. Recommended cleaning

1

Caustic danger!



Always use
rubbergloves!



Always use
protective goggles!



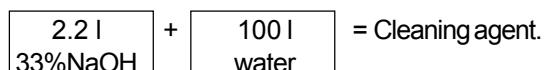
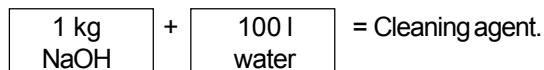
Always handle lye and acid with great care.

3

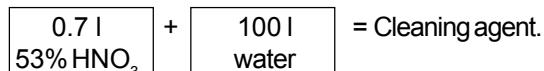
Examples of cleaning agents:

Use clean water, free from chlorides.

1. 1% by weight NaOH at 158°F.

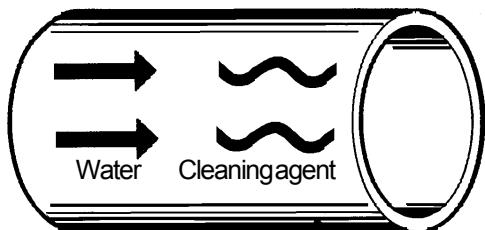


2. 0.5% by weight HNO_3 at 158°F.



5

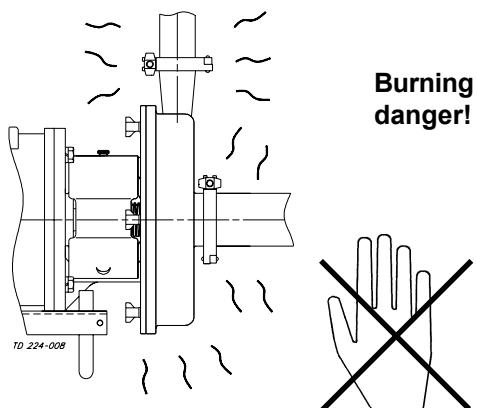
Always rinse!



Always rinse well with clean water after the cleaning.

2

Burning danger!



Never touch the pump or the pipelines when sterilizing.

4

1. Avoid excessive concentration of the cleaning agent

⇒ **Dose gradually!**

2. Adjust the cleaning flow to the process

Sterilization of milk/viscous liquids

⇒ **Increase the cleaning flow!**

6

NOTE!

The cleaning agents must be stored/disposed of in accordance with current rules/directives.

Maintenance

10

Maintain the pump carefully.
Read the instructions carefully and pay special
attention to the warnings!

Always keep spare shaft seals and rubber seals in
stock.
See separate motor instructions.

1. General maintenance

1

 Always read the technical data thoroughly
(see page 22).

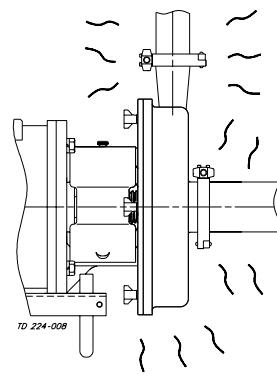
 Always disconnect the power supply when
servicing the pump.

NOTE!

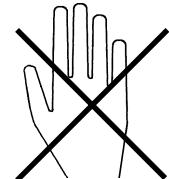
All scrap must be stored/disposed of in
accordance with current rules/directives.

2

2



Burning
danger!

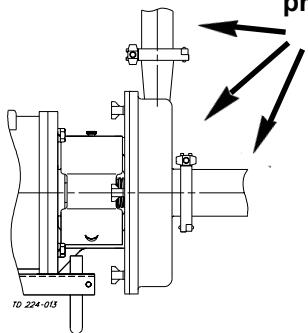


!

Never service the pump when it is hot.

3

Atmospheric
pressure required!



!

Never service the pump with pump and
pipelines under pressure.

4

CAUTION!

Fit the electrical connections correctly if they
have been removed from the motor during service
(see pre-use check on page 6).

Pay special attention to the warnings!

Ordering spare parts

- Contact the Sales Department.
- Order from the Spare Parts List.

Recommended spare parts: Seal Kits (see Spare Parts List).

*Maintain the pump carefully.
Read the instructions carefully.
Always keep spare shaft seals and rubber seals in stock.*

*See separate motor instructions.
Check the pump for smooth operation after service.*

1. General maintenance

	Shaft seal	Rubber seals	Motor bearings
Preventive maintenance	Replace after 12 months: (one-shift) Complete shaft seal	Replace when replacing the shaft seal	
Maintenance after leakage (leakage normally starts slowly)	Replace at the end of the day: Complete shaft seal	Replace when replacing the shaft seal	
Planned maintenance	<ul style="list-style-type: none"> - Regular inspection for leakage and smooth operation - Keep a record of the pump - Use the statistics for planning of inspections Replace after leakage: Complete shaft seal	Replace when replacing the shaft seal	Yearly inspection is recommended <ul style="list-style-type: none"> - Replace complete bearing if worn - Ensure that the bearing is axially locked (See motor instructions)
Lubrication	Before fitting Lubricate the O-rings with silicone grease or silicone oil	Before fitting Silicone grease or silicone oil	None The bearings are permanently lubricated

Pre-use check

CAUTION!

Fit the electrical connections correctly if they have been removed from the motor during service.

(See pre-use check on page 6).

Pay special attention to the warnings!

1. Start and stop the motor momentarily.
2. Ensure that the pump operates smoothly.

Maintenance

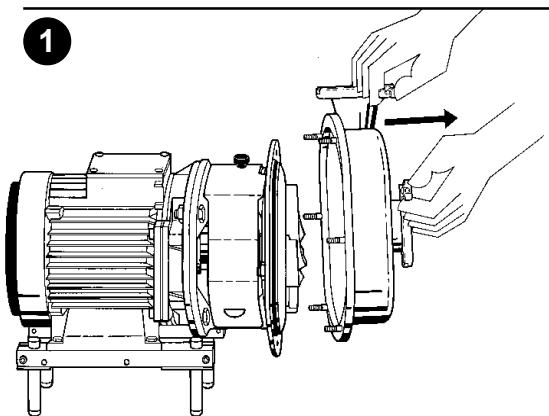
12

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Handle scrap correctly.
* : Relates to the shaft seal.

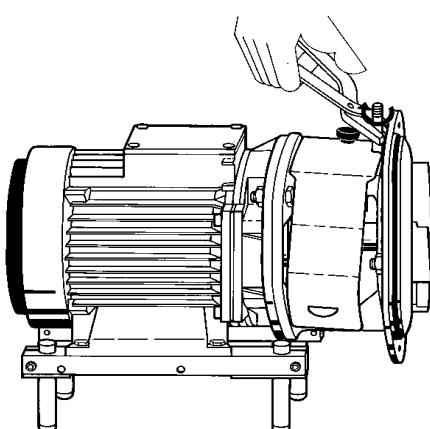
2. Dismantling of Pump/Shaft Seals

1



- 1a. LKH-5: Remove screws (56), spring washers (56a), clamps (55+55a) and pump casing (29).
- 1b. LKH-10 to -70: Unscrew wingnuts (24) and remove washers (24a) and pump casing (29).

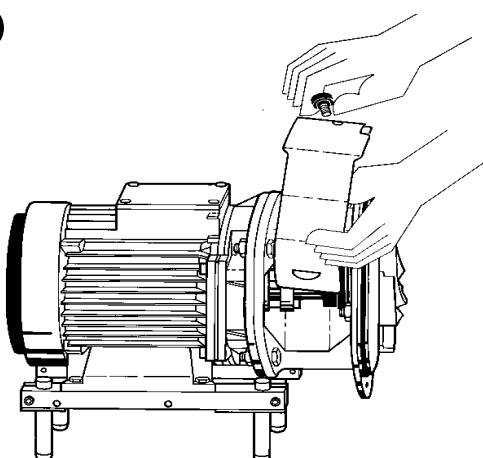
2



*

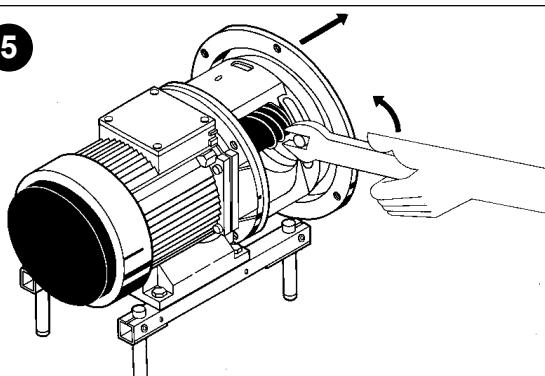
Flushed / Double mechanical shaft seal:
Unscrew tubes (42) using a spanner.

3



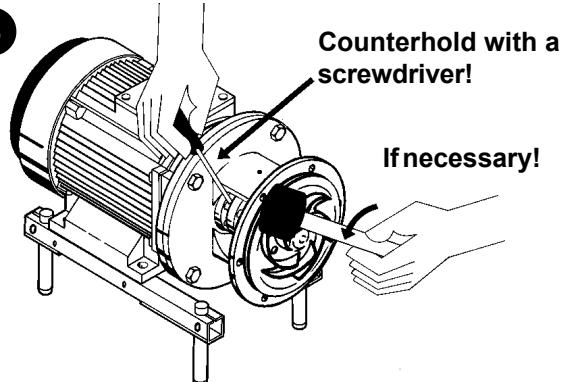
Remove screw (23) and safety guard (22).

5



1. Pull off the O-ring (26) from back plate (25).
2. Unscrew nuts (20) and remove washers (21) and the back plate.

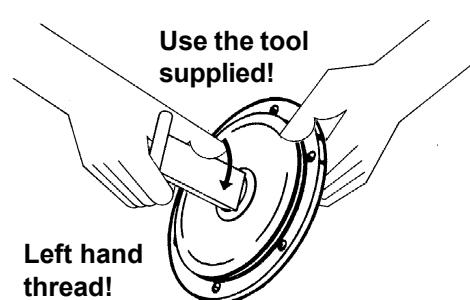
4



Counterhold with a
screwdriver!
If necessary!

1. Remove impeller screw (36), if fitted.
2. Remove impeller (27). If necessary, loosen the impeller by knocking gently on the impeller vanes.
3. Remove the O-ring (38) from the impeller, if fitted.

6



Use the tool
supplied!

Left hand
thread!

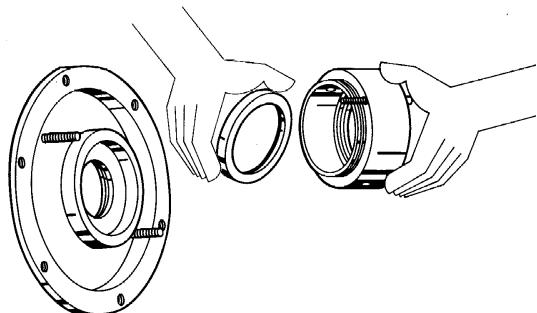
1. Remove the stationary seal ring (11).
2. Remove the O-ring (12) from back plate (25).

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Handle scrap correctly.
* : Relates to the shaft seal.

2. Dismantling of Pump/Shaft Seals

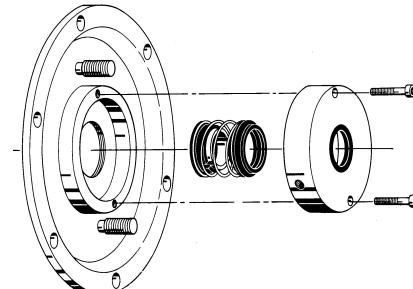
7



Flushed shaft seal:

1. Remove screws (41) and seal housing (40).
2. Pull out lip seal (43) from the seal housing.
3. Remove O-ring (44) from seal housing (40b).

8

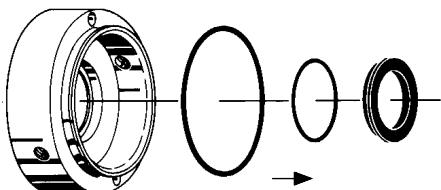


13

Double mechanical shaft seal:

1. Remove screws (41) and seal housing (40a).
2. Remove rotating seal rings (14) and drive ring (52) from spring (13).
3. Remove O-rings (15) from rotating seal rings (14).

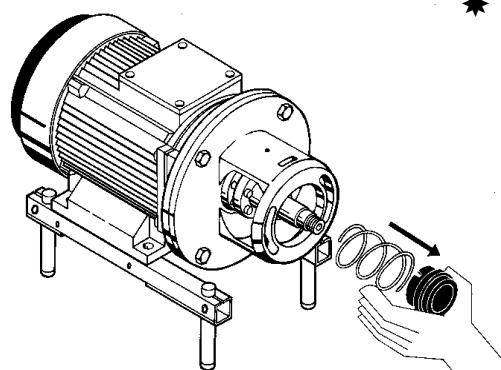
9



Double mechanical shaft seal:

1. Remove stationary seal ring (51) from seal housing (40a).
2. Remove O-ring (50) from stationary seal ring (51).
3. Remove O-ring (44) from seal housing (40a).

10



1. Remove the complete shaft seal from stub shaft (7).
2. Remove spring (13) and rotating seal ring (14) from the drive ring (10).

Maintenance

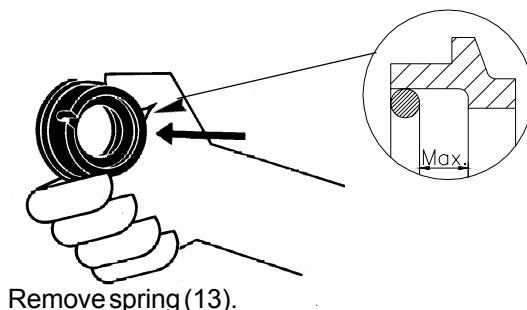
Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Handle scrap correctly.
* : Relates to the shaft seal.

3. Reassembly of Pump/Single Shaft Seal

14

1



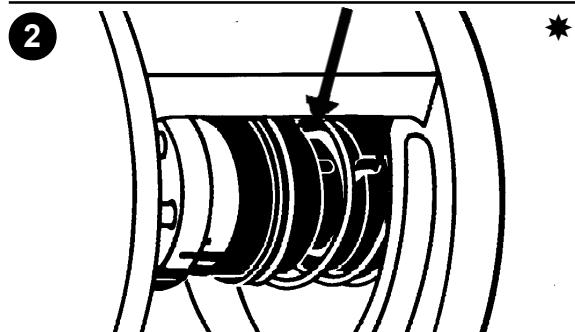
Remove spring (13).

NOTE!

Make sure that O-ring (15) has maximum clearance from the sealing surface.

2

2

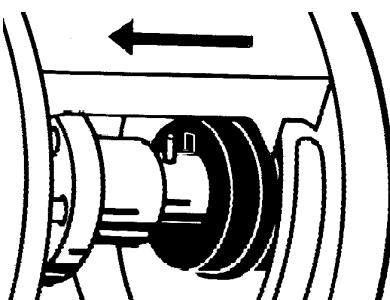


1. Refit spring (13) on rotating seal ring (14).
2. Fit the spring and the rotating seal ring on drive ring (10).

CAUTION!

Ensure that the driver on the drive ring enters the notch in the rotating seal ring.

3



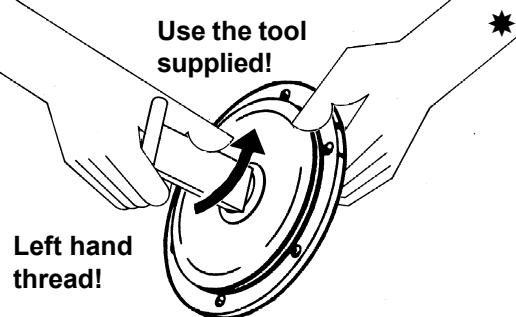
Fit the complete shaft seal on stub shaft (7).

NOTE!

Make sure that connex pin (8) on the stub shaft enters the notch in drive ring (10).

4

4



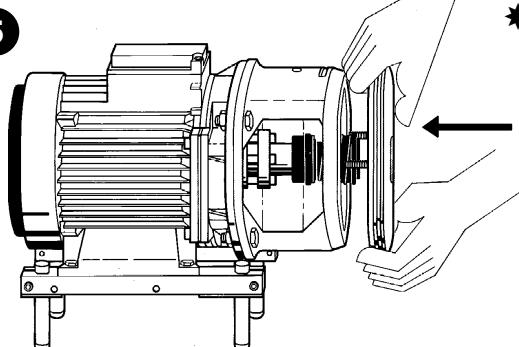
1. Fit O-ring (12) on stationary seal ring (11) and lubricate.
2. Screw the stationary seal ring into back plate (25).

CAUTION!

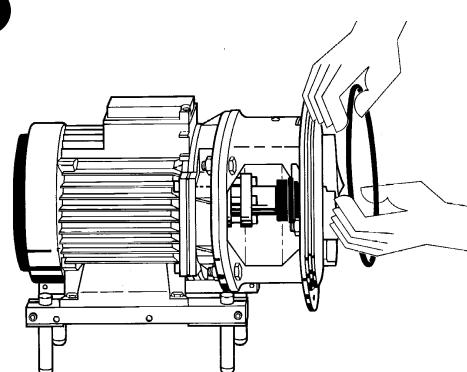
Only tighten by hand to avoid deforming the stationary seal ring.

5

5



1. Clean the sealing surfaces with contact cleaner before fitting back plate (25).
2. Carefully guide the back plate onto adaptor (16).
3. Fit washers (21) and nuts (20).



Lubricate O-ring (26) and slide it onto back plate (25).

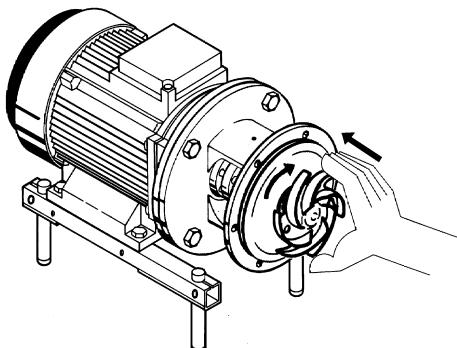
Read the instructions carefully.

The items refer to the drawings and the parts list on the pages 23-58.

Lubricate the rubber seals before fitting them.

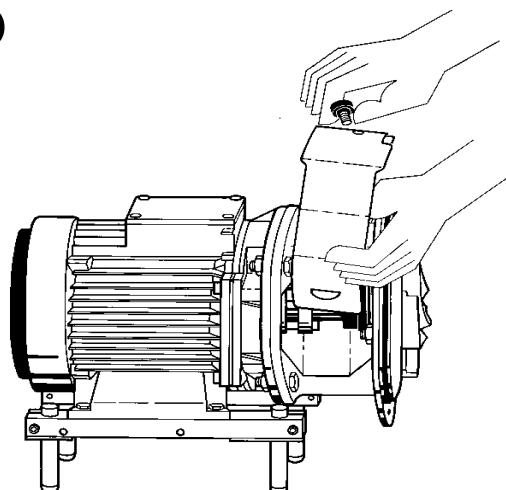
3. Reassembly of Pump/Single Shaft Seal

7



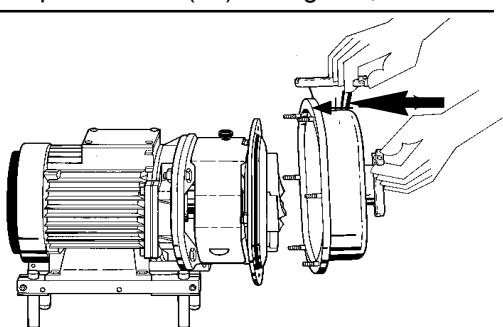
1. Lubricate O-ring (38) and fit it in impeller (37), if impeller screw is used.
2. Lubricate the impeller hub with silicone grease or oil.
3. Screw the impeller onto stub shaft (7).
4. Fit impeller screw (36) and tighten, if used.

8



15

9



- 1a. LKH-5: Fit pump casing (29), clamps(55 +55a), spring washers (56a) and screws (56).
- 1b. LKH-10 to-70: Fit pump casing (29), washers (24a) and wingnuts (24).
2. Adjust pump casing to the right position.
- 3a. LKH-5: Tighten nuts (20) for back plate (25) and tighten screws (56).
- 3b. LKH-10 to -70: Tighten nuts (20) for back plate (25) and tighten wingnuts (24).

Maintenance

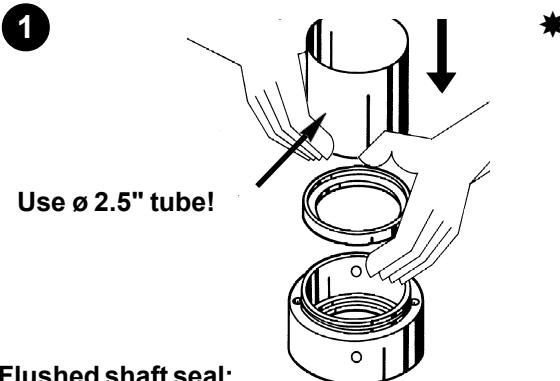
16

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Lubricate the rubber seals before fitting them.

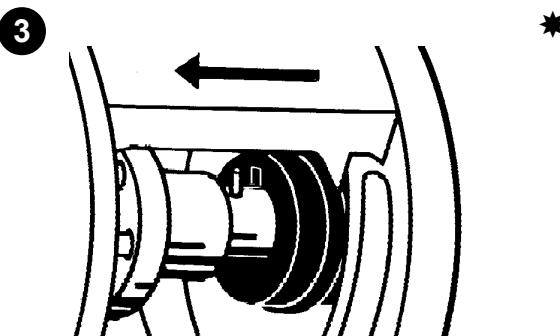
* : Relates to the shaft seal.

4. Reassembly of Pump/Flushed Shaft Seal

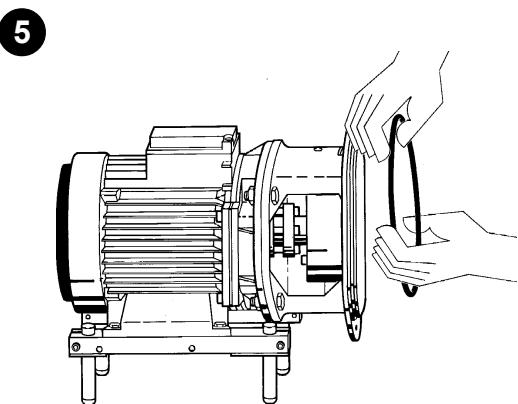


Flushed shaft seal:

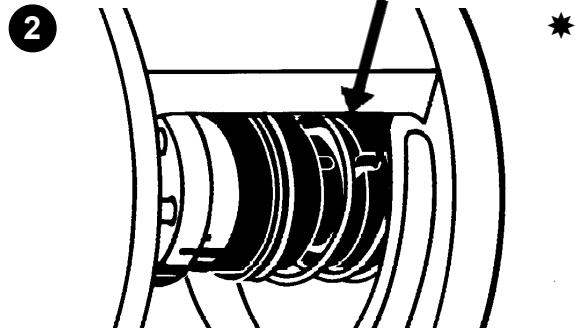
1. Fit lip seal (43) in seal housing (40).
2. Lubricate O-ring (44) and slide onto the seal housing (40).
3. Fit the seal housing on back plate (25) and tighten screws (41).



Fit complete shaft seal on stub shaft (7) so that connex pin (8) on the stub shaft enters the notch in drive ring (10).



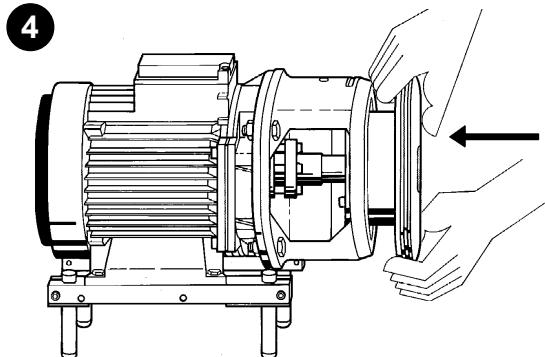
Lubricate O-ring (26) and slide it onto back plate (25).



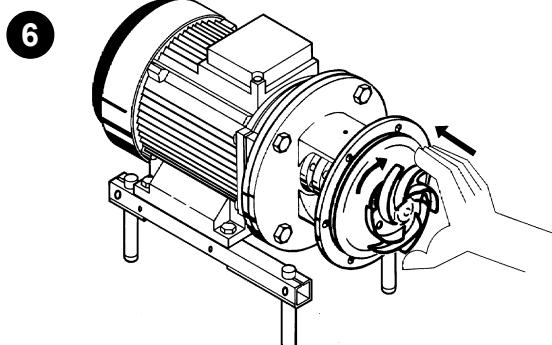
1. Lubricate O-ring (45) and fit it in drive ring (10).
2. Fit spring (13) and rotating seal ring (14) on the drive ring.

CAUTION!

Make sure that the driver on the drive ring enters the notch in the rotating seal ring.



1. Carefully guide back plate (25) onto adaptor (16).
2. Fit washers (21) and nuts (20).



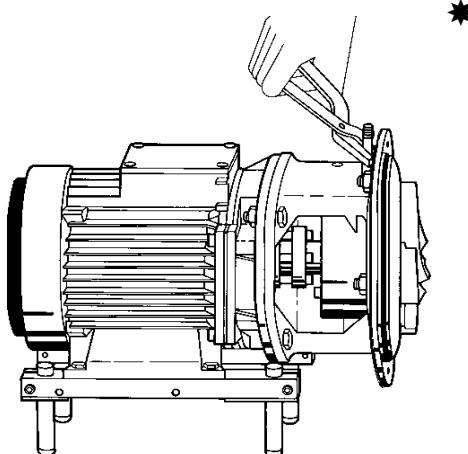
1. Lubricate O-ring (38) and fit it in impeller (37), if impeller screw is used.
2. Lubricate the impeller hub with silicone grease or oil.
3. Screw impeller (27) onto stub shaft (7).
4. Fit impeller screw (36) and tighten, if used.

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Lubricate the rubber seals before fitting them.
* : Relates to the shaft seal.

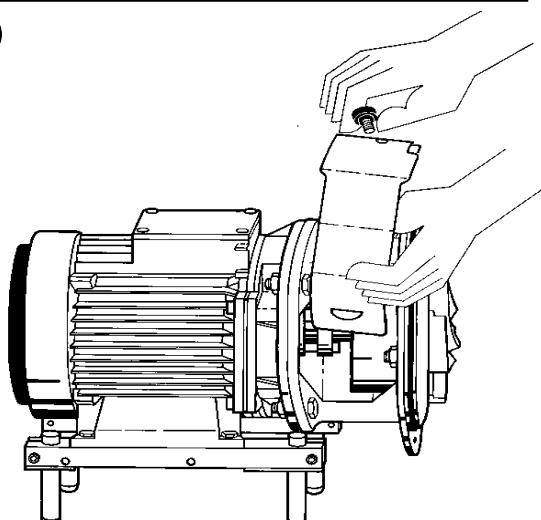
4. Reassembly of Pump/Flushed Shaft Seal

7



1. Screw tubes (42) into seal housing (40).
2. Tighten with a spanner.

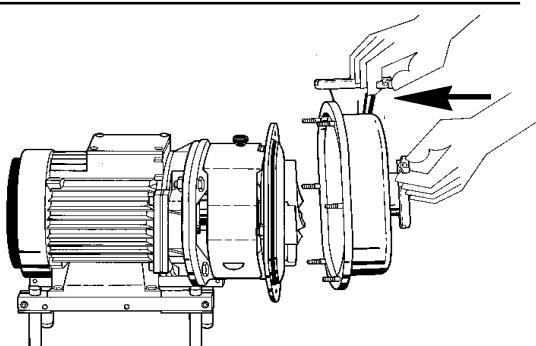
8



Fit safety guard (22) and screw (23) and tighten.

17

9



- 1a. LKH-5: Fit pump casing (29), clamps (55+55a), spring washers (56a) and screws (56).
- 1b. LKH-10 to -70: Fit pump casing (29).
2. Tighten nuts (20) for back plate (25).
- 3a. LKH-5: Tighten nuts (20) for back plate (25) and tighten screws (56).
- 3b. LKH-10 to -70: Fit washers (24a) and wingnuts (24) and tighten.

Alfa Laval

Maintenance

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

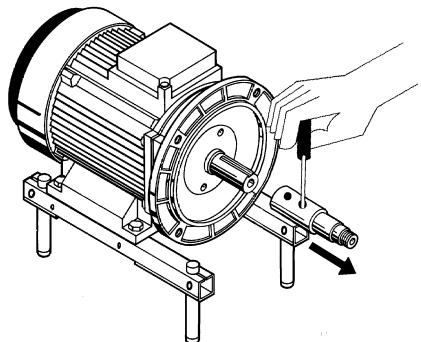
Lubricate the rubber seals before fitting them.

* : Relates to the shaft seal.

5. Adjustment of Shaft (LKH-5)

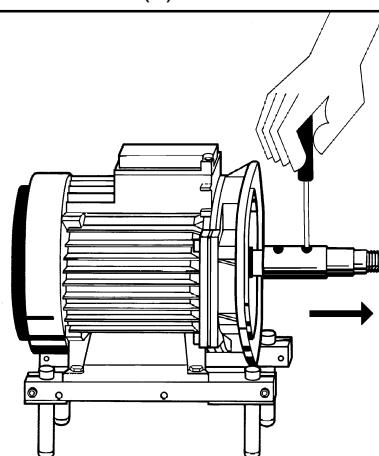
18

1



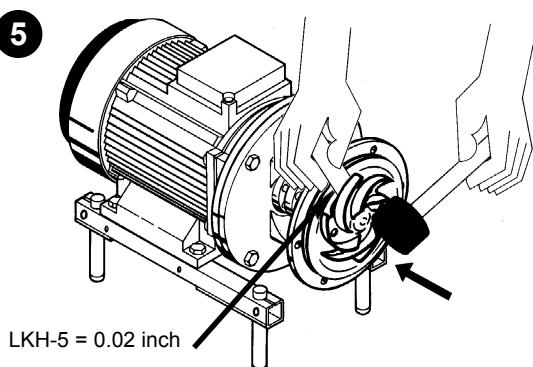
1. Loosen screws (4).
2. Pull off stub shaft (7).

3



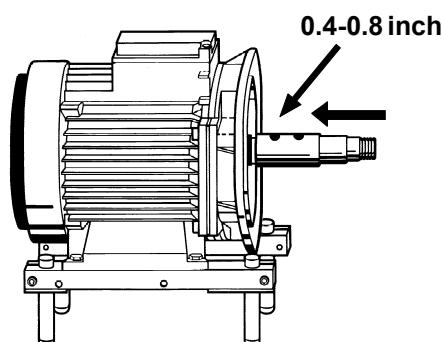
1. Tighten screws (4) lightly and evenly.
2. Ensure that stub shaft (7) can be moved on the motor shaft.

5



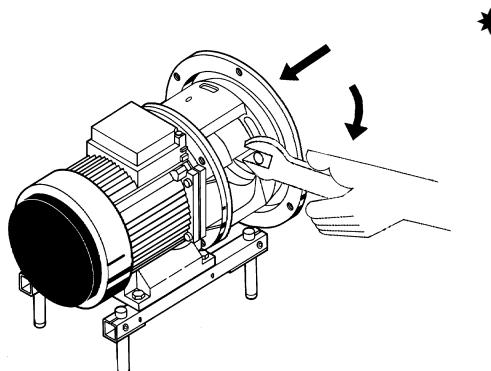
1. Fit impeller (27) on stub shaft (7).
2. Ensure that the clearance between the impeller and back plate (25) is correct: 0.02 inch for LKH-5.

2



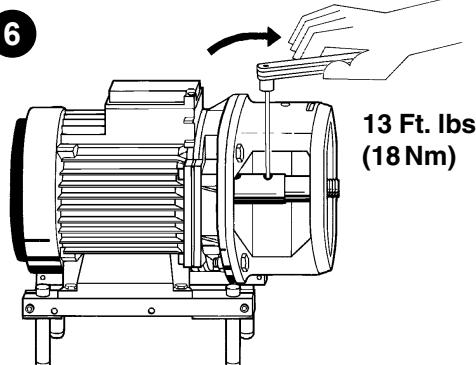
1. Push stub shaft (7) onto the motor shaft. Screws (4) must fit in keyway on the motor shaft.
2. Check that the clearance between the end of the stub shaft and the motor flange is 0.4-0.8 inch.

4



1. **For double mechanical shaft seal:**
Fit drive ring (52) on stub shaft (7).
2. Fit back plate (25), washers (21) and nuts (20) and tighten.

6

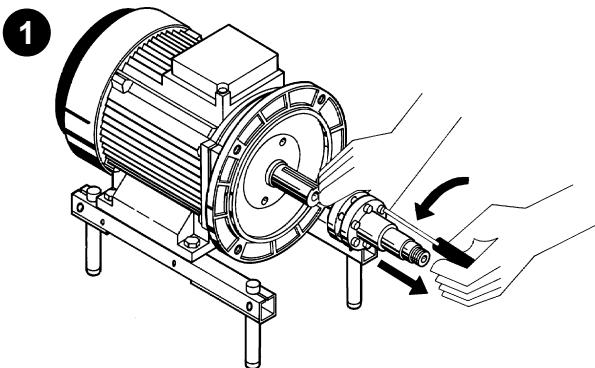


1. Remove impeller (27), back plate (25) and drive ring (52).
2. Tighten screws (4) evenly to 13 Ft. lbs (18 Nm).

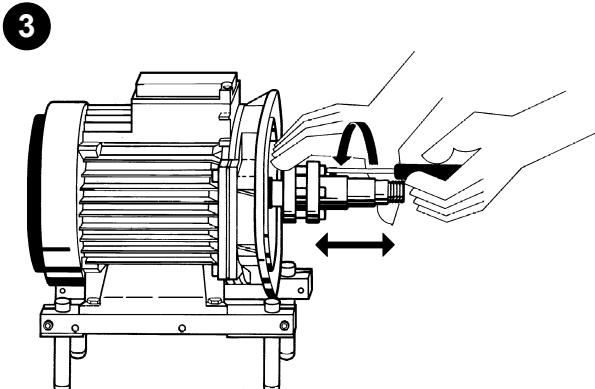
Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Lubricate the rubber seals before fitting them.
* : Relates to the shaft seal.

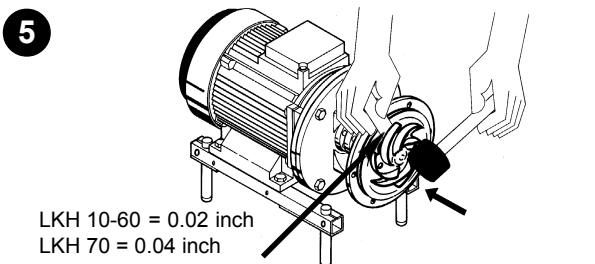
5. Adjustment of Shaft (LKH-10 to -70)



1. Loosen screws (6).
2. Pull off stub shaft (7) together with compression rings (5a, 5b).



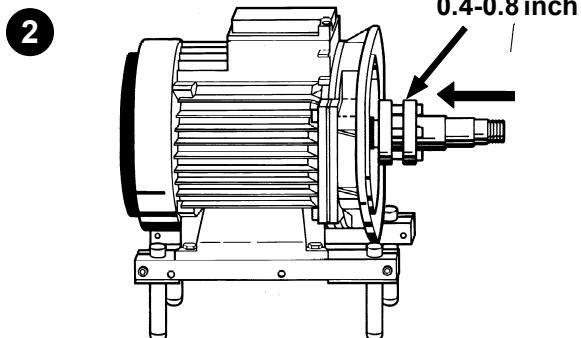
1. Tighten screws (6) lightly and evenly.
2. Ensure that stub shaft (7) can be moved on the motor shaft.



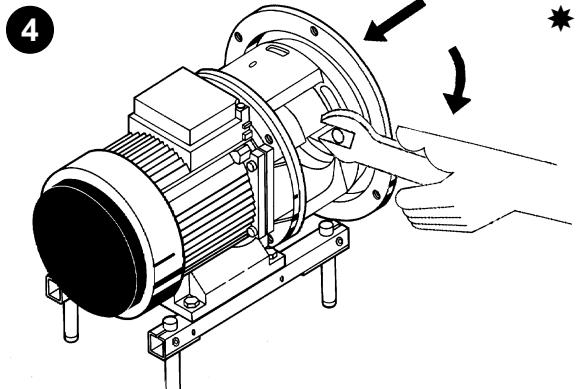
1. Fit impeller (27) on stub shaft (7).
2. Ensure that the clearance between the impeller and back plate(25) is correct:0.02 inch for LKH-10-60 and 0.04 inch for LKH-70.

NOTE!

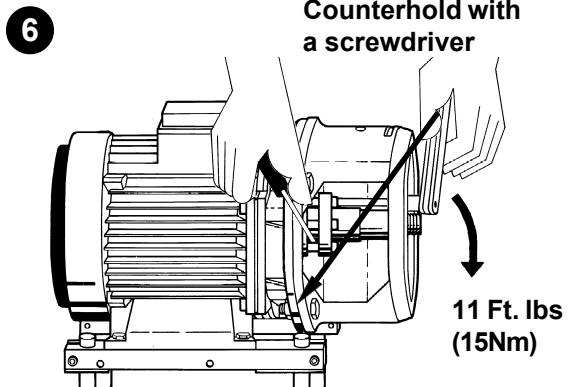
If pump has been ordered with increased clearance between impeller and backplate this additional clearance must be taken into account when adjusting the shaft.



1. Push stub shaft (7) together with compression rings (5a, 5b) onto the motor shaft.
2. Check that the clearance between the end of the stub shaft and the motor flange is 0.4-0.8 inch.



1. **For double mechanical shaft seal:**
Fit drive ring (52) on stub shaft (7).
2. Fit back plate (25), washers (21) and nuts (20) and tighten.



1. Remove impeller (27), back plate (25) and drive ring (52).
2. Tighten screws(6)evenly to 11 Ft. lbs (15 Nm).

Maintenance

20

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Lubricate the rubber seals before fitting them.
* : Relates to the shaft seal.

6. Reassembly of Pump/Double Mechanical Shaft Seal

1

Double mechanical shaft seal:

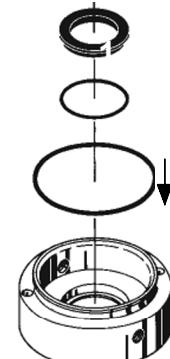
1. Fit O-rings (15) in rotating seal rings (14).
2. Fit spring (13) on one of the rotating seal rings (14) and place the drive ring (52) in between.
3. Fit the second rotating seal ring (14) on the other end of the spring.

NOTE:

Ensure that both drive pins on the drive ring enters the notches in rotating seal rings.

4. Place the parts on the stationary seal ring fitted in back plate (25).

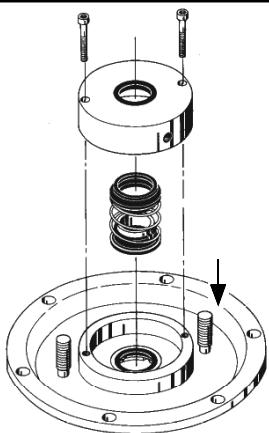
2



Double mechanical shaft seal:

1. Lubricate O-ring (44) and slide onto seal housing (40a).
2. Lubricate O-ring (50) and fit on stationary seal ring (51) and fit this in the seal housing.

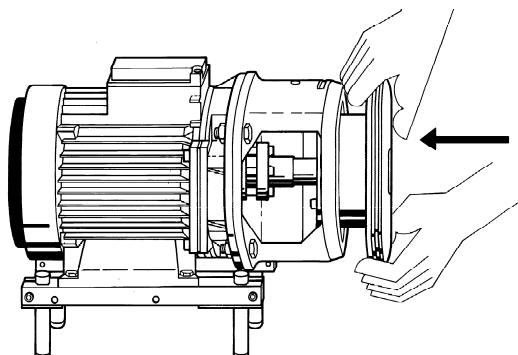
3



Double mechanical shaft seal:

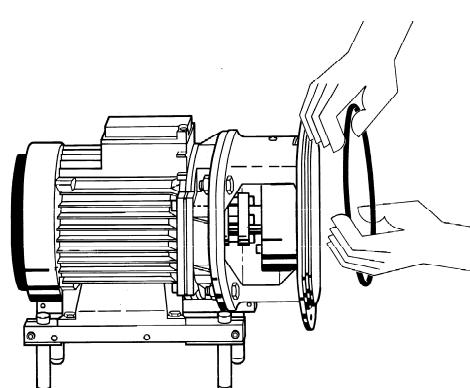
1. Clean the sealing surfaces with contact cleaner.
2. Fit seal housing (40a) on the back plate (25) and tighten screws (41).

4



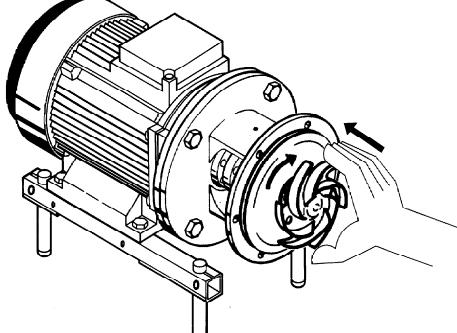
1. To enable fitting back plate (25) with the shaft seal remove connex pin (8) from stub shaft (7) (if fitted).
2. Carefully guide the back plate onto adaptor (16).
3. Fit washers (21) and nuts (20).

5



Lubricate O-ring (26) and slide it onto back plate (25).

6



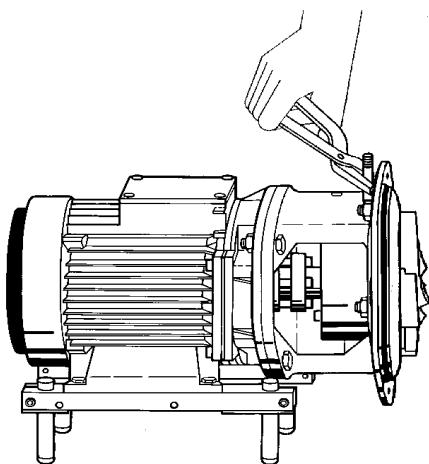
1. Lubricate O-ring (38) and fit it in impeller (37), if impeller screw is used.
2. Lubricate the impeller hub with silicone grease or oil.
3. Screw impeller (27) onto stub shaft (7).
4. Fit impeller screw (36) and tighten, if used.

Read the instructions carefully.
The items refer to the drawings and the parts list on
the pages 23-58.

Lubricate the rubber seals before fitting them.
* : Relates to the shaft seal.

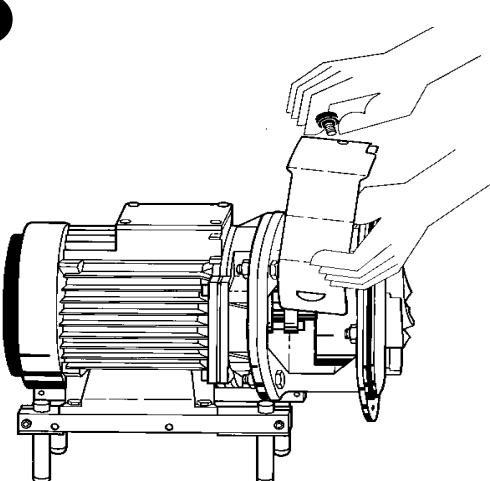
6. Reassembly of Pump/Double Mechanical Shaft Seal

7



1. Screw tubes (42) into seal housing (40a).
2. Tighten with a spanner.

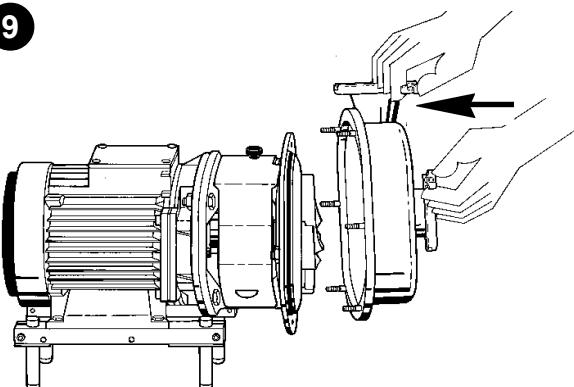
8



21

Fit safety guard (22) and screw (23) and tighten.

9



1. Fit pump casing (29).
2. Tighten nuts (20) for back plate (25).
- 3a. LKH-5: Fit clamps (55+55a), spring washers (56a) and screws (56) and tighten.
- 3b. LKH-10 to 70: Fit washers (24a) and wingnuts (24) and tighten.

Technical data

22

It is important to observe the technical data during installation, operation and maintenance.

Inform the personnel about the technical data.

1. Technical data

Data

Max. inlet pressure	LKH-5: 87 PSI
	LKH-10 to -70: 145 PSI
Temperature range	..... 14°F to +284°F (EPDM)
Noise level	..... 60-80 dB (A)

Materials

Product wetted steel parts	..... AISI 316L
Other steel parts	..... AISI 304
Finish	..... Semi-bright
Product wetted seals	..... EPDM (standard)
Other O-rings	..... EPDM
Alternative seals	..... Nitrile (NBR), Fluorinated rubber (FPM) and FEP

Shaft seal

Seal types	..... External single, flushed or double mechanical seal <i>(Double mechanical seal NOT valid for LKH-70)</i>
Max. water pressure (flushed seal)	..... Normally atmospheric (max. 14.5 psi)
Water consumption (flushed seal)	..... 4 - 8 gal/hr.
Max. water pressure (double mechanical seal)	..... Normally atmospheric (max. 72 psi)
Water consumption (double mechanical seal)	.... 4 - 8 gal/hr.
Material, stationary seal ring	..... Acid resistant steel with sealing surface of Silicon Carbide
Material, rotating seal ring	..... Carbon (standard) or Silicon Carbide
Material, O-rings	..... EPDM (standard)
Alternative material, O-rings	..... Nitrile (NBR), Fluorinated rubber (FPM) and FEP

Motor

Standard foot mounted C-facemotor acc. to NEMA standard
Premium efficient, TEFC, insulation class F

Voltage and frequency (standard) 3 phase, 60 Hz, 230/460 volt standard
(other voltages available)

Motor sizes (HP), 60 Hz 1.5, 2.0, 3.0, 5.0, 7.5, 10, 15, 20,
25, 30, 40, 50, 60, 75, 100

Max. weight for LKH-pumps LKH-5: 100 lbs, LKH-10: 204.0 lbs, LKH-15:304.0 lbs,
..... LKH-20: 301.0 lbs, LKH-25: 473.0 lbs, LKH-35: 469.0 lbs,
..... LKH-40: 478.0 lbs, LKH-45: 475.0 lbs, LKH-50: 478.0 lbs,
..... LKH-60: 483.0 lbs, LKH-70: 1320 lbs LKH-80: 1330 lbs.

For further information - see LKH product data sheet

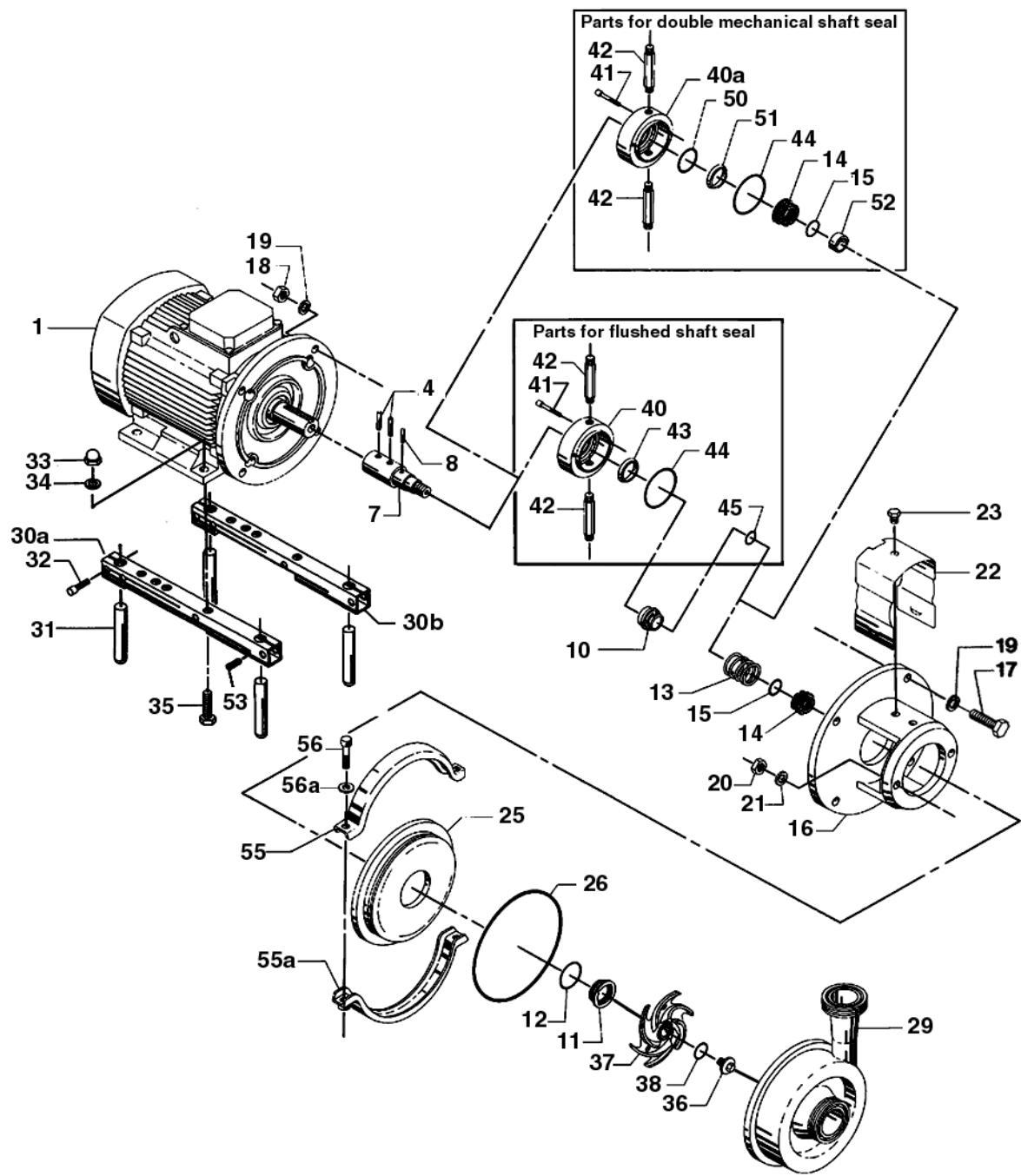
Exploded drawing

This page shows an exploded drawing of LKH-5, sanitary version.

The drawing and the parts list includes all items of the pump.

LKH-5, Sanitary version

23



Alfa Laval

Parts List

The drawing and the parts list include all items of the pump.

LKH-5, Sanitary version

24

Pos.	Qty.	Description	1 Hp Part No.	1.5-2 Hp Part No.	3-5 Hp Part No.
1	1	Motor			
4	2	Screw	9612-5875-03	9612-5875-04	9612-5875-05
7	1	Stub shaft.....	9612-5953-01	9612-5961-01	9612-5954-01
8	1	Connex pin.....	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-1377-01	9612-1377-01	9612-1377-01
1	1	Drive ring - flushed shaft seal	9612-1397-01	9612-1397-01	9612-1397-01
11■◆□○◊	1	Stationary seal ring, SC	9612-1379-01	9612-1379-01	9612-1379-01
12■◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■◆□○◊	1	Spring	9612-1376-01	9612-1376-01	9612-1376-01
14■□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-5955-01	9612-5955-01	9612-5956-01
17	4	Screw for adaptor	9611-99-1911	9611-99-1911	9611-99-1911
18	4	Nut for adaptor	9611-99-0353	9611-99-0353	9611-99-0353
19	4	Washer for adaptor	9611-99-1887	9611-99-1887	9611-99-1887
20	2	Nut	9611-99-0260	9611-99-0260	9611-99-0380
21	2	Washer	9611-99-1831	9611-99-1831	9611-99-1831
22	1	Safety gaurd	9612-5939-02	9612-5939-02	9612-5939-06
23	1	Screw for safety gaurd	9611-99-2544	9611-99-2544	9611-99-2544
25	1	Back plate	9612-1384-28	9612-1384-28	9612-1384-28
26□○◊	1	O-ring, EPDM (standard)	9611-99-3560	9611-99-3560	9611-99-3560
	1	O-ring, NBR	9611-99-3581	9611-99-3581	9611-99-3581
	1	O-ring, FPM	9611-99-3562	9611-99-3562	9611-99-3562
	1	O-ring, FEP	9611-99-3563	9611-99-3563	9611-99-3563
29	1	Pump casing, GC	9612-1288-12	9612-1288-12	9612-1288-12
30a-35	1	Leg assembly	9612-6407-01	9612-6407-01	9612-6407-02
36	1	Impeller screw	9612-3627-01	9612-3627-01	9612-3627-01
37	1	Impeller for impeller screw	9612-5876-02	9612-5876-02	9612-5876-02
38□○◊	1	O-ring, EPDM (standard)	9611-99-2750	9611-99-2750	9611-99-2750
	1	O-ring, NBR	9611-99-2751	9611-99-2751	9611-99-2751
	1	O-ring, FPM	9611-99-2752	9611-99-2752	9611-99-2752
	1	O-ring, FEP	9611-99-3539	9611-99-3539	9611-99-3539
40a	1	Seal housing - double mechanical	9612-1339-02	9612-1339-02	9612-1339-02
40b	1	Seal housing - flushed	9612-1339-01	9612-1339-01	9612-1339-01
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	O-ring for seal housing	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-1383-02	9612-1383-02	9612-1383-02
52◆◊	1	Spacer	9612-3089-01	9612-3089-01	9612-3089-01
55	1	Upper clamp	9612-5895-02	9612-5895-02	9612-5895-02
55a	1	Lower clamp	9612-5896-02	9612-5896-02	9612-5896-02
56	2	Screw	9611-99-1126	9611-99-1126	9611-99-1126
56a	2	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888

Parts marked with ■, ●, ◆ are included in the seal kits.

Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-5, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-12-9613
◆	1	C/SC seal kit, NBR	9612-12-9614
◆	1	C/SC seal kit, FPM	9612-12-9615
◆	1	SC/SC seal kit, EPDM	9612-12-9617
◆	1	SC/SC seal kit, NBR	9612-12-9618
◆	1	SC/SC seal kit, FPM	9612-12-9619
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2306
□	1	Service kit, NBR	9611-92-2307
□	1	Service kit, FPM	9611-92-2308
□	1	Service kit, PTFE	9611-92-2309
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2314
○	1	Service kit, NBR	9611-92-2315
○	1	Service kit, FPM	9611-92-2316
○	1	Service kit, PTFE	9611-92-2317
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9611-92-2322
◊	1	Service kit, NBR	9611-92-2323
◊	1	Service kit, FPM	9611-92-2324
◊	1	Service kit, PTFE	9611-92-2325
Parts marked with □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

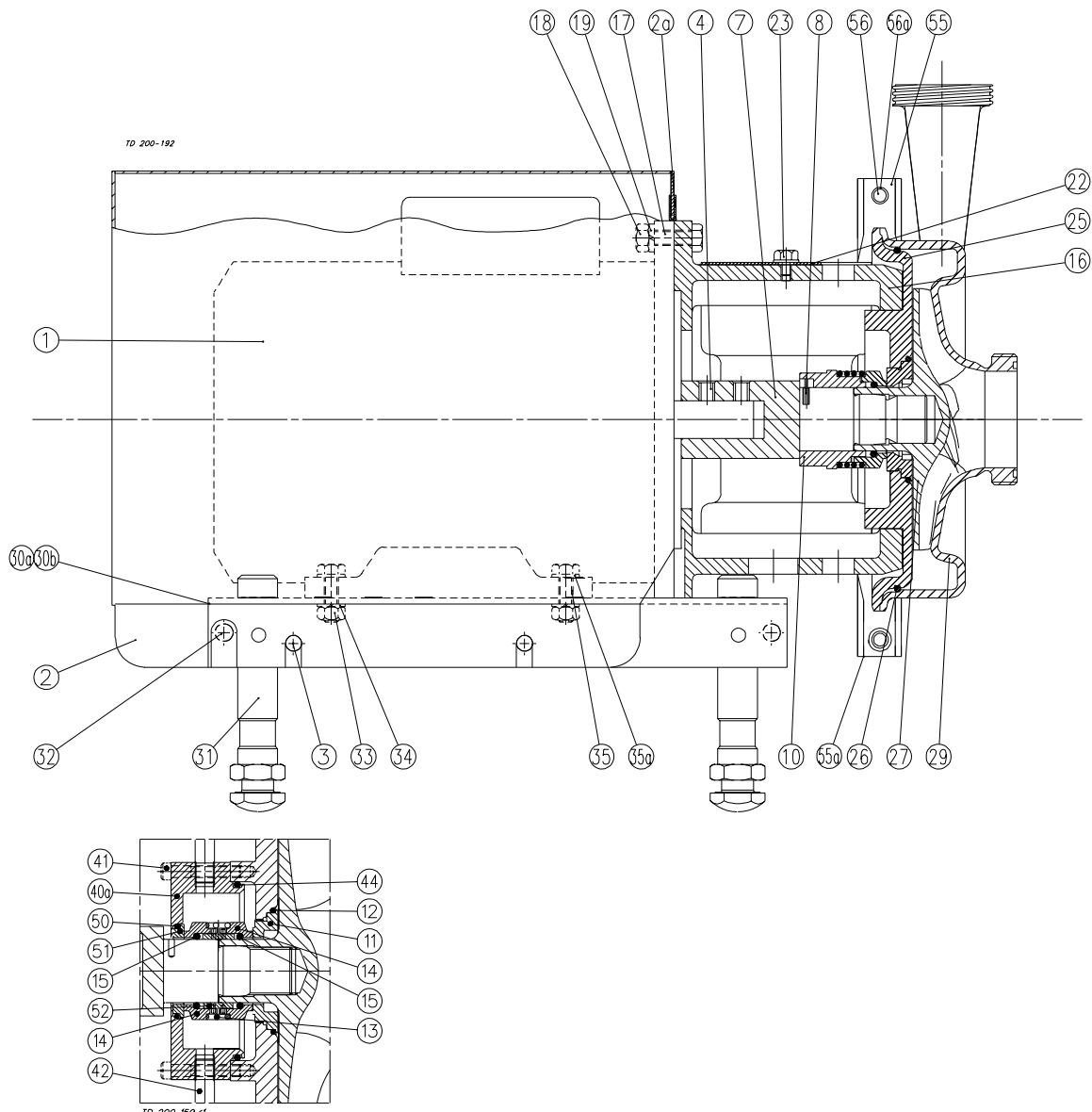
Drawing

26

The drawing shows LKH-5, sanitary version.

The items refer to the parts list on pages 24-25.

LKH-5, Sanitary version



Double mechanical shaft seal

Flushed shaft seal

Impeller screw

Fitting of back plate

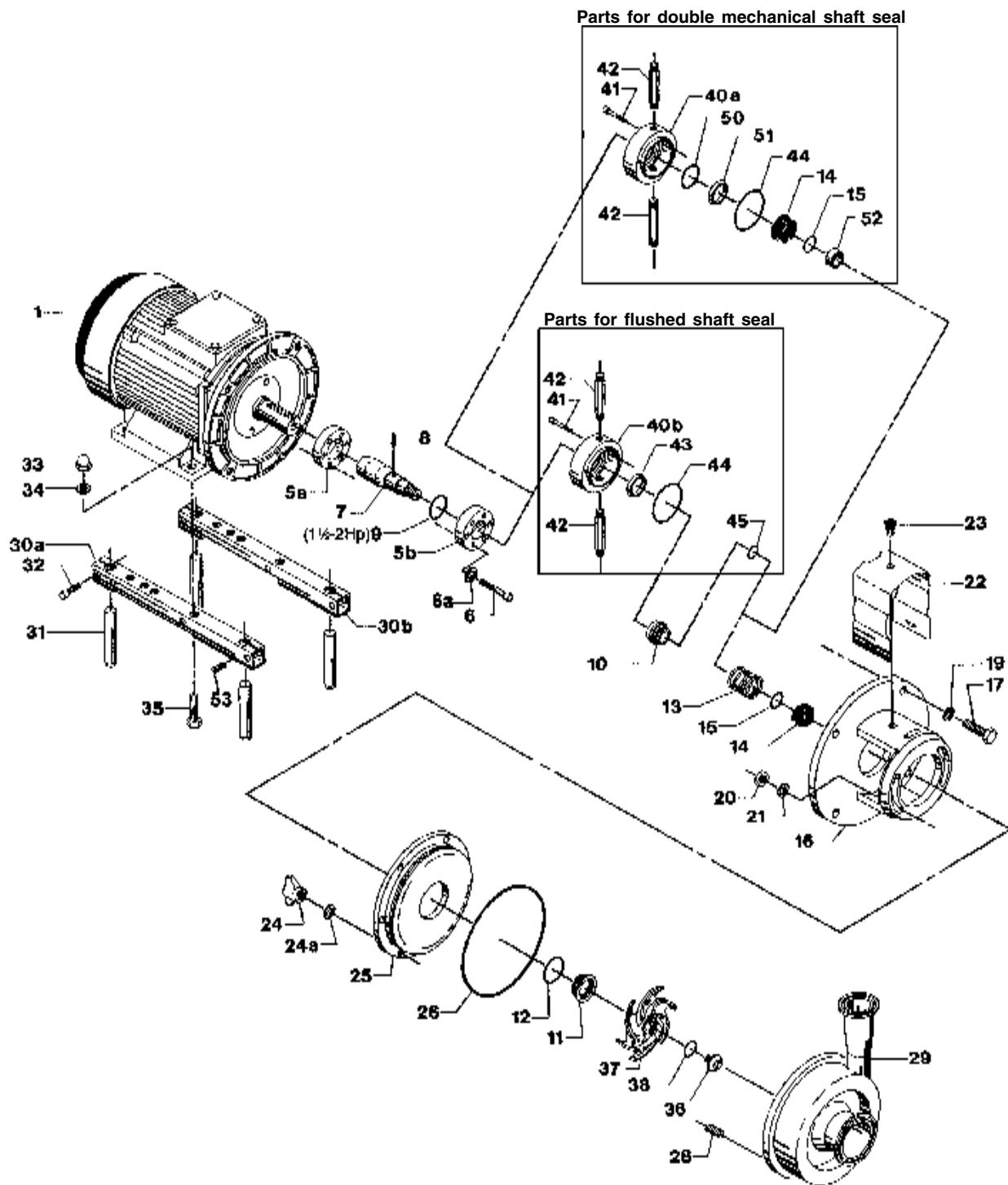
Exploded Drawing

This page shows an exploded drawing of LKH-10, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-10, Sanitary version

27



Alfa Laval

Parts List

28

The drawing and the parts list include all items of the pump.

LKH-10, Sanitary version

Pos.	Qty.	Description	1.5-2 Hp Part No.	3-5 Hp Part No.	7.5-10 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3601	9612-13-3602	9612-13-3606
5b	1	Compression ring without thread	9612-13-3701	9612-13-3702	9612-13-3706
6	6	Screw	9611-99-3196	9611-99-3196	9611-99-2338
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3002	9612-13-3102	9612-13-3202
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
9	1	Retaining ring	9611-99-2307	N/A	N/A
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■◆○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■◆○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5910	9612-13-5911	9612-13-5912
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-12-9703	9612-13-1106	9612-13-1110
23	1	Safety guard screw	31460-1309-1	31460-13091	31460-1309-1
24	6	Wingnuts	9611-41-6891	9611-41-6891	9611-41-6891
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8416	9612-13-8416	9612-13-8416
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2137	9611-99-2137	9611-99-2137
	1	Joint ring, FPM	9611-99-2138	9611-99-2138	9611-99-2138
	1	Joint ring, NBR	9611-99-2139	9611-99-2139	9611-99-2139
	1	Joint ring, PTFE	9611-99-2140	9611-99-2140	9611-99-2140
28	6	Stud bolt	9611-99-2168	9611-99-2168	9611-99-2168
29	1	Pump casing, GC	883-30031	883-30031	883-30031
30a-35	1	Leg assembly	9612-13-5919	9612-13-5920	31460-1301-4
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-13-1206	9612-13-1206	9612-13-1206
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring o-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-3089-01	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆ are included in the seal kits.

Parts marked with □, ○, ◇, ◆, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-10, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07

Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07

Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-12-9613
◆	1	C/SC seal kit, NBR	9612-12-9614
◆	1	C/SC seal kit, FPM	9612-12-9615
◆	1	SC/SC seal kit, EPDM	9612-12-9617
◆	1	SC/SC seal kit, NBR	9612-12-9618
◆	1	SC/SC seal kit, FPM	9612-12-9619

Parts marked with ■, ●, ◆ are included in the seal kits.

Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2114
□	1	Service kit, NBR	9611-92-2115
□	1	Service kit, FPM	9611-92-2116
□	1	Service kit, PTFE	9611-92-2117

Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2118
○	1	Service kit, NBR	9611-92-2119
○	1	Service kit, FPM	9611-92-2120
○	1	Service kit, PTFE	9611-92-2121

Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9611-92-2210
◊	1	Service kit, NBR	9611-92-2211
◊	1	Service kit, FPM	9611-92-2212
◊	1	Service kit, PTFE	9611-92-2213

Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.

Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		

Accessories			
1	Tool complete	9612-1371-01	

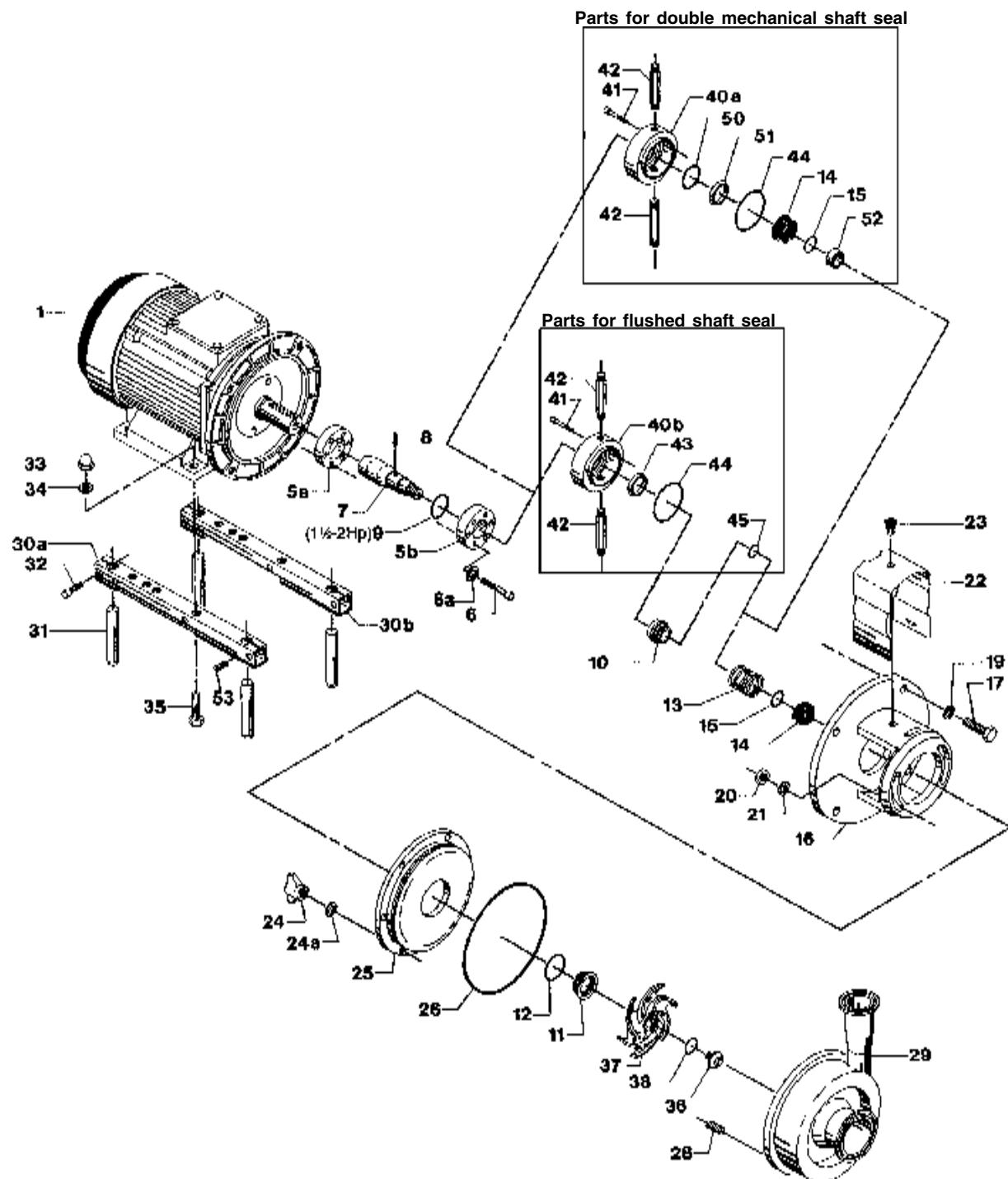
Recommended Spare Parts: Service kits

Exploded Drawing

The drawing and the parts list include all items of the pump.

LKH-15, Sanitary version

30



Parts List

This page shows an exploded drawing of LKH-15, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-15, Sanitary version

Pos.	Qty.	Description	1.5-2 Hp Part No.	3-5 Hp Part No.	7.5-10 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3601	9612-13-3602	9612-13-3606
5b	1	Compression ring without thread	9612-13-3701	9612-13-3702	9612-13-3706
6	6	Screw	9611-99-3196	9611-99-3196	9611-99-3197
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3002	9612-13-3102	9612-13-3202
8	1	Connex pin	9611-99-0622	961199-0622	9611-99-0622
9	1	Retaining ring	9611-99-2307	N/A	N/A
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5910	9612-13-5911	9612-13-5912
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-12-9703	9612-13-1106	9612-13-1110
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6891	9611-41-6891	9611-41-6891
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8416	9612-13-8416	9612-13-8416
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2137	9611-99-2137	9611-99-2137
	1	Joint ring, FPM	9611-99-2138	9611-99-2138	9611-99-2138
	1	Joint ring, NBR	9611-99-2139	9611-99-2139	9611-99-2139
	1	Joint ring, PTFE	9611-99-2140	9611-99-2140	9611-99-2140
28□○◊	6	Stud bolt	9611-99-2168	9611-99-2168	9611-99-2168
29	1	Pump casing	883-39447	883-39447	883-39447
30a-35	1	Leg assembly	9612-13-5919	9612-135-920	31460-1301-4
36	1	Impeller screw	9612-13-9603	961213-9603	9612-13-9603
37	1	Impeller polished, full	883-39459	883-39459	883-39459
38	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing o-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring o-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆ are included in the seal kits.

Parts marked with □, ●, ◆, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

Parts List

32

The drawing and the parts list include all items of the pump.

LKH-15, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	Seal kit, NBR	9612-1296-06
■	1	Seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-12-9613
◆	1	C/SC seal kit, NBR	9612-12-9614
◆	1	C/SC seal kit, FPM	9612-12-9615
◆	1	SC/SC seal kit, EPDM	9612-12-9617
◆	1	SC/SC seal kit, NBR	9612-12-9618
◆	1	SC/SC seal kit, FPM	9612-12-9619
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2114
□	1	Service kit, NBR	9611-92-2115
□	1	Service kit, FPM	9611-92-2116
□	1	Service kit, PTFE	9611-92-2117
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2118
○	1	Service kit, NBR	9611-92-2119
○	1	Service kit, FPM	9611-92-2120
○	1	Service kit, PTFE	9611-92-2121
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9611-92-2210
◊	1	Service kit, NBR	9611-92-2211
◊	1	Service kit, FPM	9611-92-2212
◊	1	Service kit, PTFE	9611-92-2213
Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal.....	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal.....	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

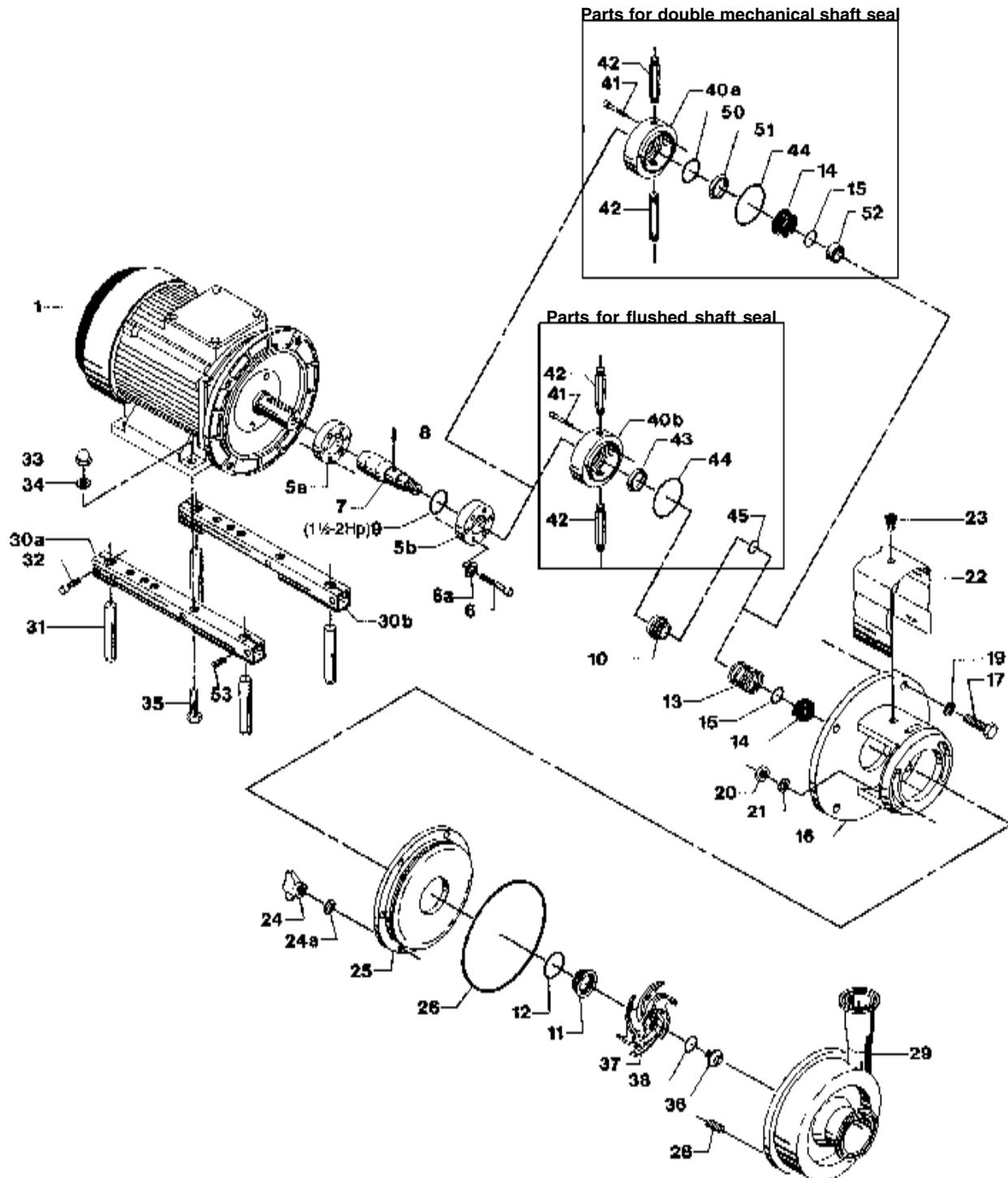
Recommended Spare Parts: Service kits

Exploded View

The drawing and the parts list include all items of the pump.

LKH-20, Sanitary version

33



Alfa Laval

Parts List

The drawing and the parts list include all items of the pump.

LKH-20, Sanitary version

34

Pos.	Qty.	Description	1.5-2 Hp Part No.	3-5 Hp Part No.	7.5-10 Hp Part No.	15-20 Hp Part No.
1	1	Motor				
5a	1	Compression ring with thread	9612-13-3601	9612-13-3602	9612-13-3606	9612-13-3603
5b	1	Compression ring without thread	9612-13-3701	9612-13-3702	9612-13-3706	9612-13-3703
6	6	Screw	9611-99-3196	9611-99-3196	9611-99-2338	9611-99-2338
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3002	9612-13-3102	9612-13-3202	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622	9611-99-0622
9	1	Retaining ring	9611-99-2307	N/A	N/A	N/A
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701	9612-13-9701
11■◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901	9612-13-7901
12■◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152	9611-99-2152
13■◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601	9612-13-7601
14■□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
15■□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5910	9612-13-5911	9612-13-5912	9612-13-5913
17	4	Adaptor screw	881-30173	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-12-9703	9612-13-1106	9612-13-1107	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6891	9611-41-6891	9611-41-6891	9611-41-6891
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8417	9612-13-8417	9612-13-8417	9612-13-8417
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2141	9611-99-2141	9611-99-2141	9611-99-2141
	1	Joint ring, FPM	9611-99-2142	9611-99-2142	9611-99-2142	9611-99-2142
	1	Joint ring, NBR	9611-99-2143	9611-99-2143	9611-99-2143	9611-99-2143
	1	Joint ring, PTFE	9611-99-2144	9611-99-2144	9611-99-2144	9611-99-2144
28	6	Stud bolt	9611-99-2168	9611-99-2168	9611-99-2168	9611-99-2168
29	1	Pump casing	883-30032	883-30032	883-30032	883-30032
30a-35	1	Leg assembly	9612-13-5919	9612-13-5920	31460-1301-4	31460-1302-3
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-13-1406	9612-13-1406	9612-13-1406	9612-13-1406
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆, ◇ are included in the seal kits.

Parts marked with ■, ●, ◆, □, ○, ◇ are included in the service kits.

Recommended Spare Parts: Service kits

This page shows an exploded drawing of LKH-20, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-20, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SSC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2122
□	1	Service kit, NBR	9611-92-2123
□	1	Service kit, FPM	9611-92-2124
□	1	Service kit, PTFE	9611-92-2125
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2126
○	1	Service kit, NBR	9611-92-2127
○	1	Service kit, FPM	9611-92-2128
○	1	Service kit, PTFE	9611-92-2129
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2218
◊	1	Service kit, NBR	9611-92-2219
◊	1	Service kit, FPM	9611-92-2220
◊	1	Service kit, PTFE	9611-92-2221
Parts marked with □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

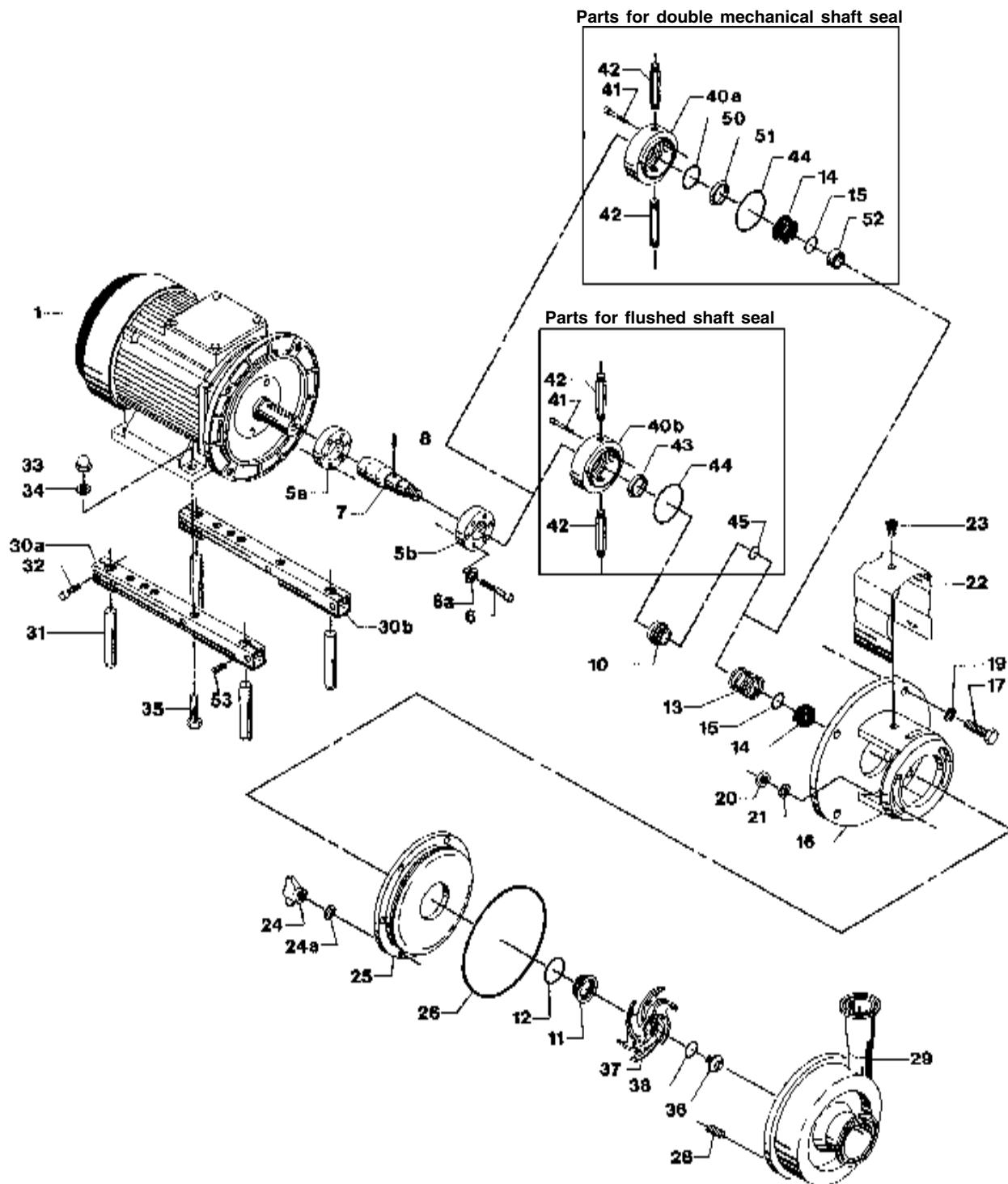
Recommended Spare Parts: Service kits

Exploded View

The drawing and the parts list include all items of the pump.

LKH-25, Sanitary version

36



Parts List

The drawing and the parts list include all items of the pump.

LKH-25, Sanitary version

Pos.	Qty.	Description	3-5 Hp Part No.	7.5-10 Hp Part No.	15-20 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3602	9612-13-3606	9612-13-3603
5b	1	Compression ring without thread	9612-13-3702	9612-13-3706	9612-13-3703
6	6	Screw	9611-99-3196	9611-99-2338	9611-99-2338
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3102	9612-13-3202	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■●◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■●◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■●◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■●□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5911	9612-13-5912	9612-13-5913
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1106	9612-13-1107	9612-1-31108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8426	9612-13-8426	9612-13-8426
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2983	9611-99-2983	9611-99-2983
	1	Joint ring, FPM	9611-99-2985	9611-99-2985	9611-99-2985
	1	Joint ring, NBR	9611-99-2984	9611-99-2984	9611-99-2984
	1	Joint ring, PTFE	9611-99-2986	9611-99-2986	9611-99-2986
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing	883-39448	883-39448	883-39448
30a-35	1	Leg assembly	9612-13-5920	314-60-13014	31460-1302-3
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	883-39357	9612-13-1406	9612-13-1406
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-5156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■●◆□○◊ are included in the seal kits.

Parts marked with ■●◆□○◊ are included in the service kits.

Recommended Spare Parts: Service kits

Parts List

38

The drawing and the parts list include all items of the pump.

LKH-25, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2182
□	1	Service kit, NBR	9611-92-2183
□	1	Service kit, FPM	9611-92-2184
□	1	Service kit, PTFE	9611-92-2185
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2190
○	1	Service kit, NBR	9611-92-2191
○	1	Service kit, FPM	9611-92-2192
○	1	Service kit, PTFE	9611-92-2193
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2226
◊	1	Service kit, NBR	9611-92-2227
◊	1	Service kit, FPM	9611-92-2228
◊	1	Service kit, PTFE	9611-92-2229
Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

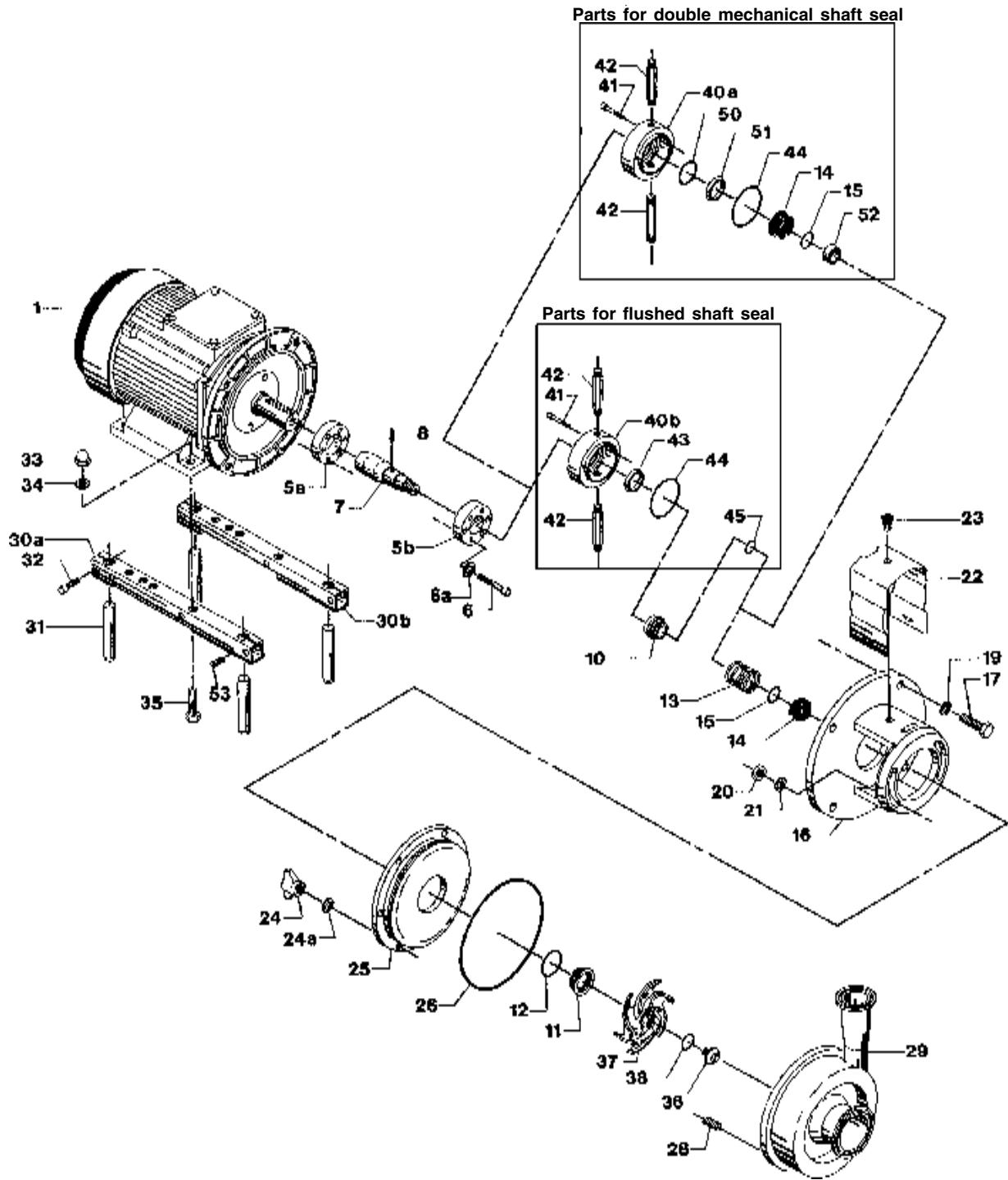
Exploded Drawing

This page shows an exploded drawing of LKH-25, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-35, Sanitary version

39



Alfa Laval

Parts List

The drawing and the parts list include all items of the pump.

LKH-35, Sanitary version

40

Pos.	Qty.	Description	3-5 Hp Part No.	7.5-10 Hp Part No.	15-20 Hp Part No.	25-30 Hp Part No.
1	1	Motor				
5a	1	Compression ring with thread	9612-13-3602	9612-13-3606	9612-13-3603	9612-13-3603
5b	1	Compression ring without thread	9612-13-3702	9612-13-3706	9612-13-3703	9612-13-3703
6	6	Screw	9611-99-3196	9611-99-2338	9611-99-2338	9611-99-2504
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3102	9612-13-3202	9612-13-3302	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701	9612-13-9701
11■♦□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901	9612-13-7901
12■♦□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152	9611-99-2152
13■♦□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601	9612-13-7601
14■♦□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
15■♦□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5911	9612-13-5912	9612-13-5913	9612-13-5918
17	4	Adaptor screw	881-30173	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1106	9612-13-1107	9612-13-1108	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8426	9612-13-8426	9612-13-8426	9612-13-8426
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2983	9611-99-2983	9611-99-2983	9611-99-2983
	1	Joint ring, FPM	9611-99-2985	9611-99-2985	9611-99-2985	9611-99-2985
	1	Joint ring, NBR	9611-99-2984	9611-99-2984	9611-99-2984	9611-99-2984
	1	Joint ring, PTFE	9611-99-2986	9611-99-2986	9611-99-2986	9611-99-2986
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing	883-41216	883-41216	883-41216	883-41216
30a-35	1	Leg assembly	9612-13-5920	31460-1301-4	31460-1302-3	31460-1302-4
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-43-4106	9612-43-4106	9612-43-4106	9612-43-4106
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2	31446-0088-2
44●♦○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
50♦◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156	9611-99-2156
51♦◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302	9612-13-8302
52♦◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ♦ are included in the seal kits.

Parts marked with ■, ●, ♦, □, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-35, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2182
□	1	Service kit, NBR	9611-92-2183
□	1	Service kit, FPM	9611-92-2184
□	1	Service kit, PTFE	9611-92-2185
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2190
○	1	Service kit, NBR	9611-92-2191
○	1	Service kit, FPM	9611-92-2192
○	1	Service kit, PTFE	9611-92-2193
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2226
◊	1	Service kit, NBR	9611-92-2227
◊	1	Service kit, FPM	9611-92-2228
◊	1	Service kit, PTFE	9611-92-2229
Parts marked with □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

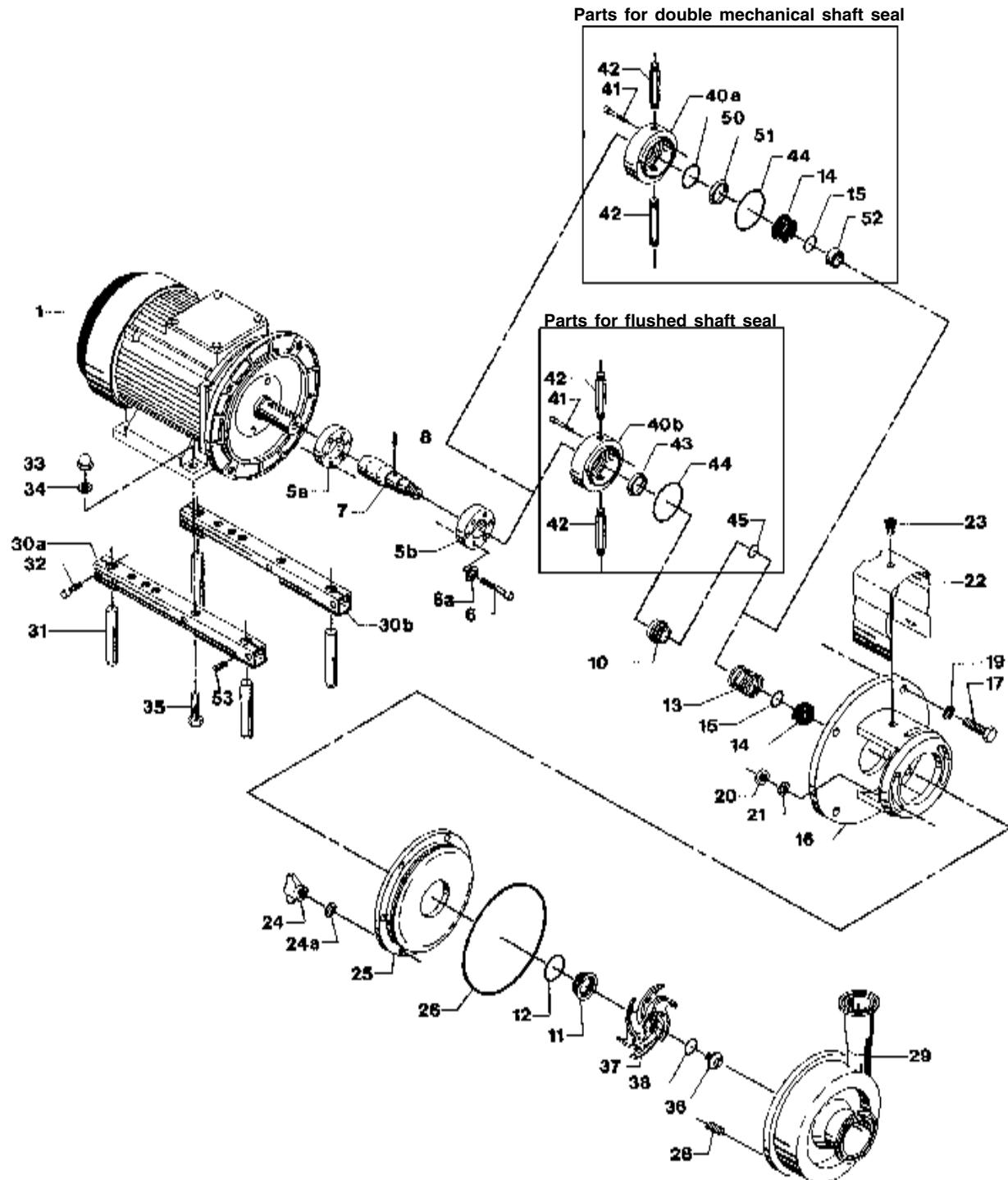
Exploded Drawing

This page shows an exploded drawing of LKH-35, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-40, Sanitary version

42



The drawing and the parts list include all items of the pump.

LKH-40, Sanitary version

Pos.	Qty.	Description	7.5-10 Hp Part No.	15-20 Hp Part No.	25-30 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3606	9612-13-3603	9612-13-3603
5b	1	Compression ring without thread	9612-13-3706	9612-13-3703	9612-13-3703
6	6	Screw	9611-99-2338	9611-99-2338	9611-99-2504
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3202	9612-13-3302	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■●◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■●◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■●◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■●□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5912	9612-13-5913	9612-13-5918
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1107	9612-13-1108	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8418	9612-13-8418	9612-13-8418
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2171	9611-99-2171	9611-99-2171
	1	Joint ring, FPM	9611-99-2172	9611-99-2172	9611-99-2172
	1	Joint ring, NBR	9611-99-2173	9611-99-2173	9611-99-2173
	1	Joint ring, PTFE	9611-99-2174	9611-99-2174	9611-99-2174
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing	9612-12-9101	9612-12-9101	9612-12-9101
30a-35	1	Leg assembly	31460-1301-4	31460-1302-3	31460-1302-4
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-13-1806	9612-13-1806	9612-13-1806
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆ are included in the seal kits.

Parts marked with □, ○, ◇, ◆, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

Parts List

44

The drawing and the parts list include all items of the pump.

LKH-40, Sanitary version

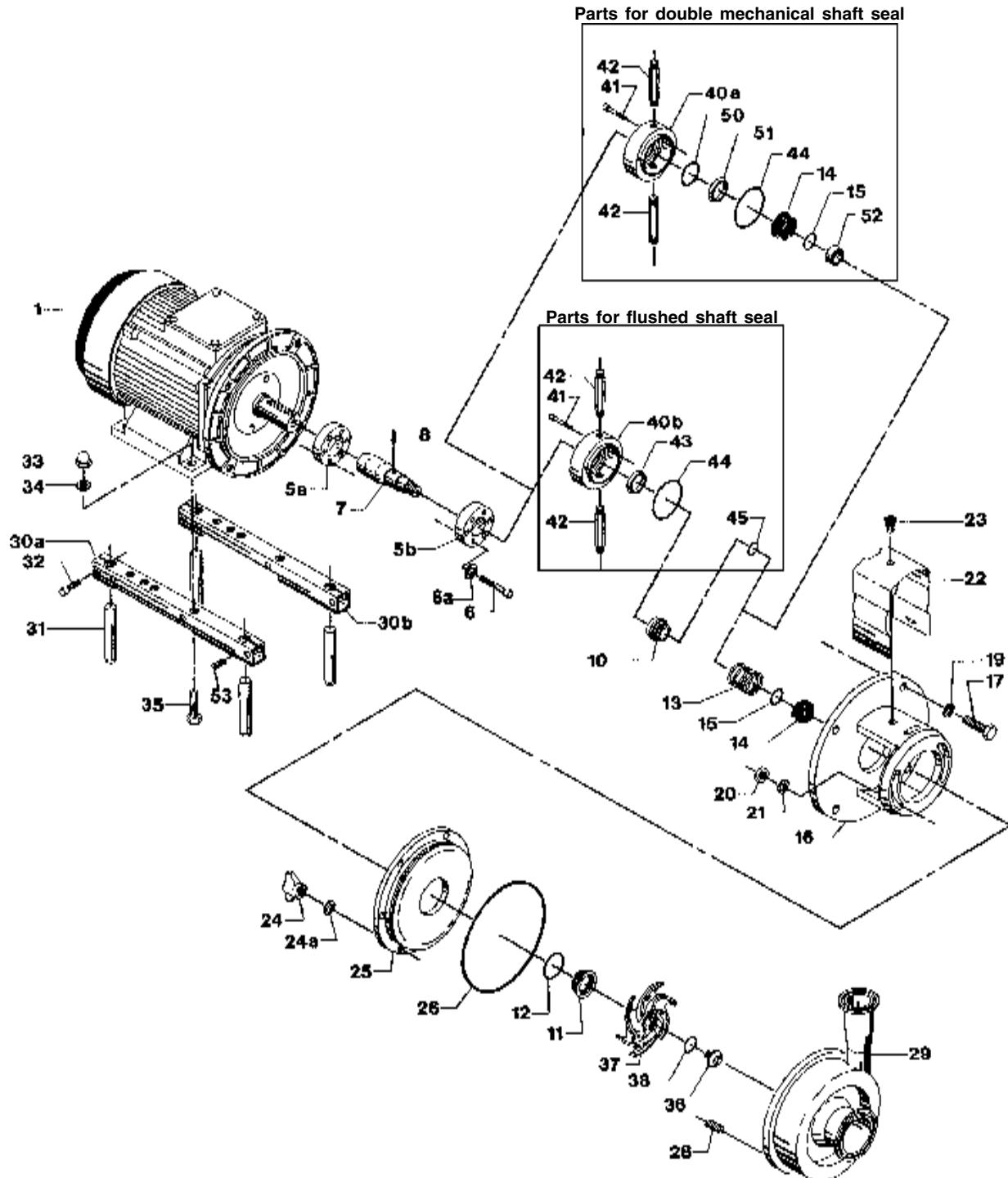
Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2130
□	1	Service kit, NBR	9611-92-2131
□	1	Service kit, FPM	9611-92-2132
□	1	Service kit, PTFE	9611-92-2133
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2134
○	1	Service kit, NBR	9611-92-2135
○	1	Service kit, FPM	9611-92-2136
○	1	Service kit, PTFE	9611-92-2137
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2234
◊	1	Service kit, NBR	9611-92-2235
◊	1	Service kit, FPM	9611-92-2236
◊	1	Service kit, PTFE	9611-92-2237
Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-45, Sanitary version

45



Alfa Laval

Exploded Drawing

This page shows an exploded drawing of LKH-40, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-45, Sanitary version

46

Pos.	Qty.	Description	7.5-10 Hp Part No.	15-20 Hp Part No.	25-30 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3606	9612-13-3603	9612-13-3603
5b	1	Compression ring without thread	9612-13-3706	9612-13-3703	9612-13-3703
6	6	Screw	9611-99-2338	9611-99-2338	9611-99-2504
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3202	9612-13-3302	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■●♦□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■●♦□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■●♦□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■●□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5912	9612-13-5913	9612-13-5918
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1107	9612-13-1108	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8426	9612-13-8426	9612-13-8426
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2983	9611-99-2983	9611-99-2983
	1	Joint ring, FPM	9611-99-2985	9611-99-2985	9611-99-2985
	1	Joint ring, NBR	9611-99-2984	9611-99-2984	9611-99-2984
	1	Joint ring, PTFE	9611-99-2986	9611-99-2986	9611-99-2986
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing	883-39461	883-39461	883-39461
30a-35	1	Leg assembly	31460-1301-4	31460-1302-3	31460-1302-4
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	883-39460	883-39460	883-39460
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●♦○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆, ♦ are included in the seal kits.

Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-45, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2182
□	1	Service kit, NBR	9611-92-2183
□	1	Service kit, FPM	9611-92-2184
□	1	Service kit, PTFE	9611-92-2185
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2190
○	1	Service kit, NBR	9611-92-2191
○	1	Service kit, FPM	9611-92-2192
○	1	Service kit, PTFE	9611-92-2193
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2226
◊	1	Service kit, NBR	9611-92-2227
◊	1	Service kit, FPM	9611-92-2228
◊	1	Service kit, PTFE	9611-92-2229
Parts marked with □, ○, ◊ are included in the service kits.			
Conversion Kit			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

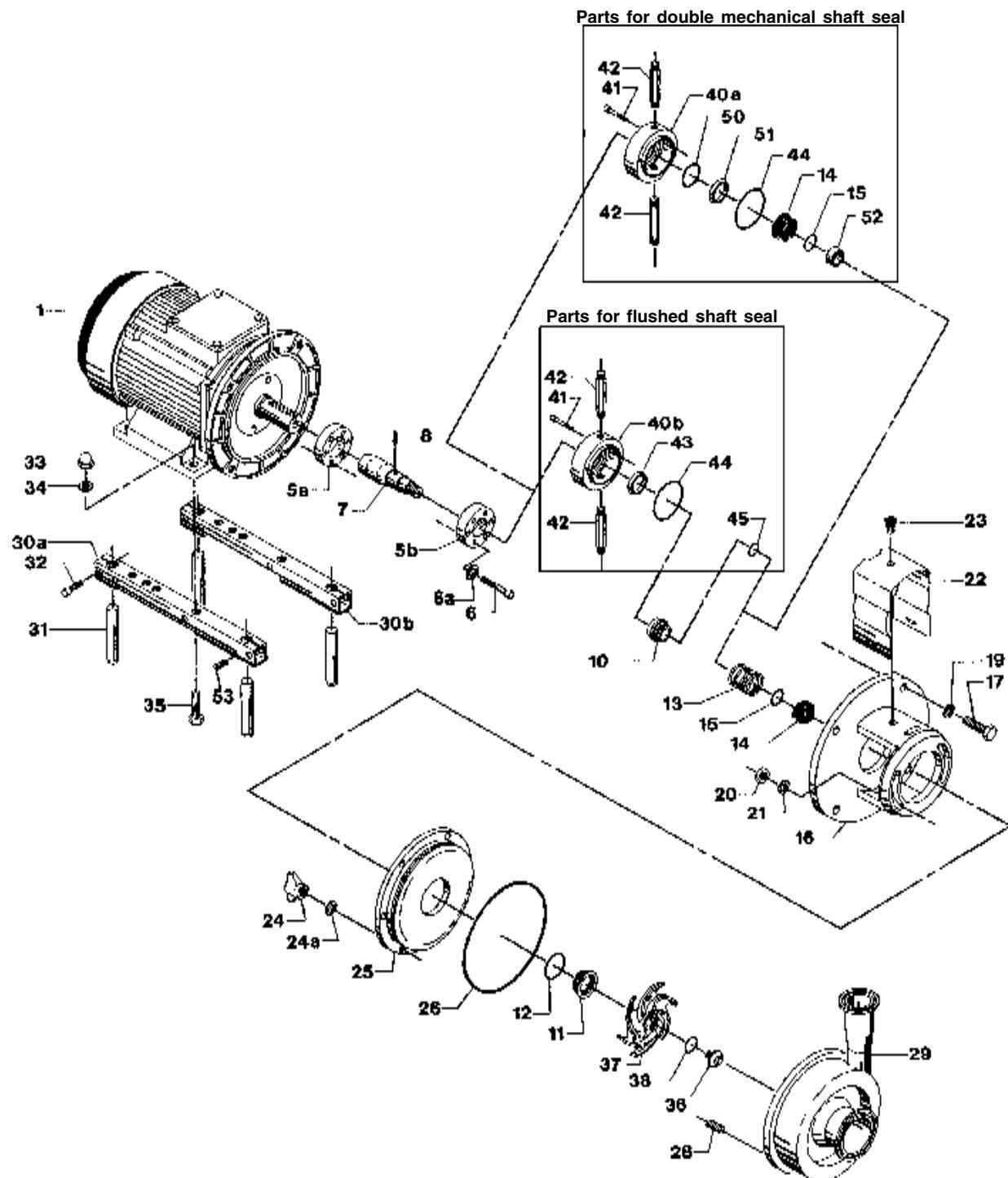
Recommended Spare Parts: Service kits

Parts List

The drawing and the parts list include all items of the pump.

LKH-50, Sanitary version

48



The drawing and the parts list include all items of the pump.

LKH-50, Sanitary version

Pos.	Qty.	Description	7.5-10 Hp Part No.	15-20 Hp Part No.	25-30 Hp Part No.
1	1	Motor			
5a	1	Compression ring with thread	9612-13-3606	9612-13-3603	9612-13-3603
5b	1	Compression ring without thread	9612-13-3706	9612-13-3703	9612-13-3703
6	6	Screw	9611-99-2338	9611-99-2338	9611-99-2504
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3202	9612-13-3302	9612-13-3302
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701
11■●◆□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901
12■●◆□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152
13■●◆□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601
14■●□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5912	9612-13-5913	9612-13-5918
17	4	Adaptor screw	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1107	9612-13-1108	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8418	9612-13-8418	9612-13-8418
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2171	9611-99-2171	9611-99-2171
	1	Joint ring, FPM	9611-99-2172	9611-99-2172	9611-99-2172
	1	Joint ring, NBR	9611-99-2173	9611-99-2173	9611-99-2173
	1	Joint ring, PTFE	9611-99-2174	9611-99-2174	9611-99-2174
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing	9612-12-9301	9612-12-9301	9612-12-9301
30a-35	1	Leg assembly	31460-1301-4	31460-1302-3	31460-1302-4
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-13-2006	9612-13-2006	9612-13-2006
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2
44●◆○◊	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	9611-99-2145	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ◆ are included in the seal kits.

Parts marked with □, ●, ◆, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

Exploded Drawing

This page shows an exploded drawing of LKH-45, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-50, Sanitary version

50

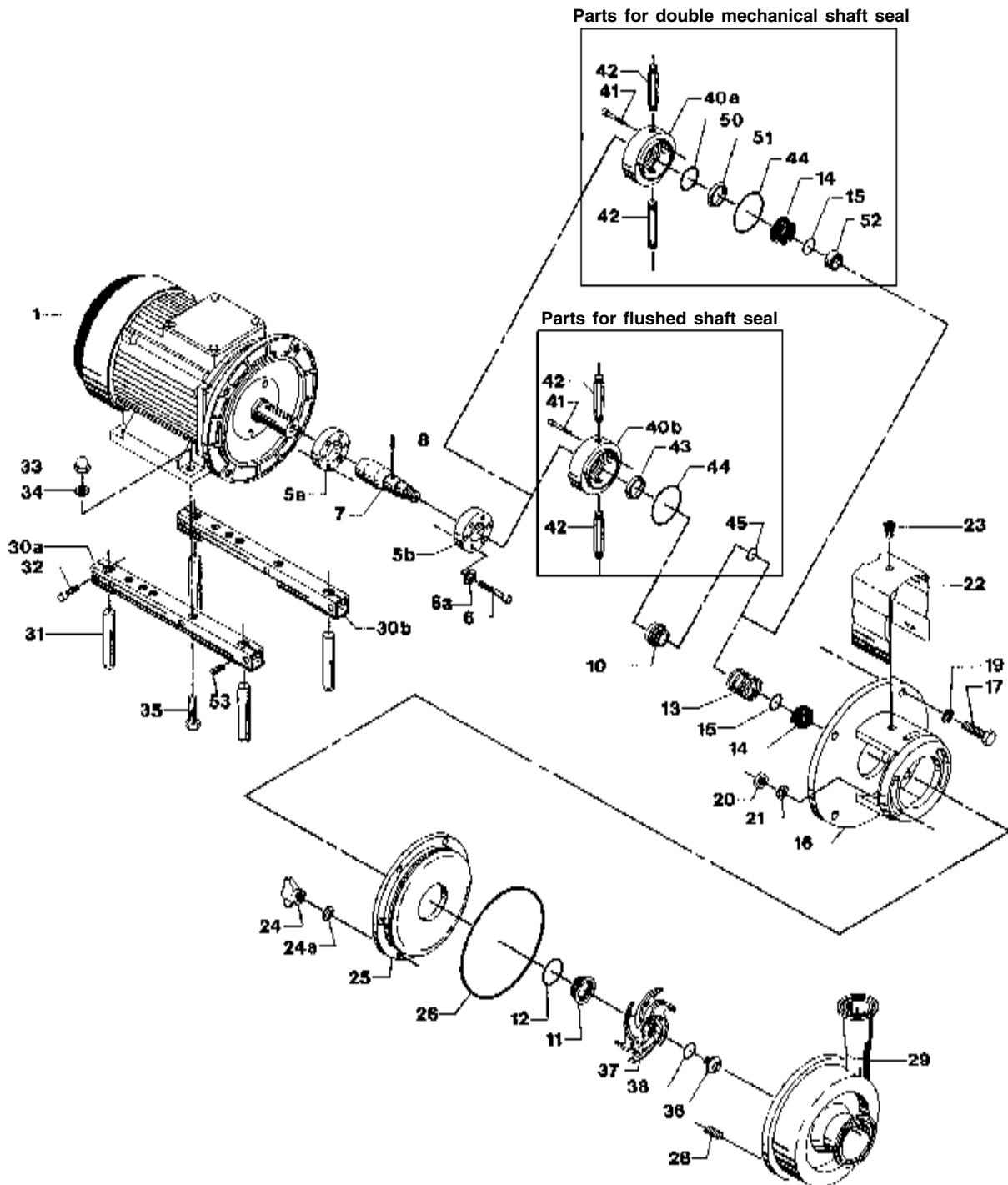
Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2130
□	1	Service kit, NBR	9611-92-2131
□	1	Service kit, FPM	9611-92-2132
□	1	Service kit, PTFE	9611-92-2133
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2134
○	1	Service kit, NBR	9611-92-2135
○	1	Service kit, FPM	9611-92-2136
○	1	Service kit, PTFE	9611-92-2137
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2234
◊	1	Service kit, NBR	9611-92-2235
◊	1	Service kit, FPM	9611-92-2236
◊	1	Service kit, PTFE	9611-92-2237
Parts marked with ■, ●, ◆, □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-60, Sanitary version

51



Alfa Laval

Parts List

The drawing and the parts list include all items of the pump.

LKH-60, Sanitary version

52

Pos.	Qty.	Description	7.5-10 Hp Part No.	15-20 Hp Part No.	25-30 Hp Part No.	40 Hp Part No.
1	1	Motor				
5a	1	Compression ring with thread	9612-13-3606	9612-13-3603	9612-13-3603	9612-13-3603
5b	1	Compression ring without thread	9612-13-3706	9612-13-3703	9612-13-3703	9612-13-3703
6	6	Screw	9611-99-2338	9611-99-2338	9611-99-2504	9611-99-2504
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft	9612-13-3202	9612-13-3302	9612-13-3302	9612-13-3402
8	1	Connex pin	9611-99-0622	9611-99-0622	9611-99-0622	9611-99-0622
10	1	Drive ring - single shaft seal	9612-13-7701	9612-13-7701	9612-13-7701	9612-13-7701
	1	Drive ring - flush shaft seal	9612-13-9701	9612-13-9701	9612-13-9701	9612-13-9701
11■●♦□○◊	1	Stationary seal ring, SC	9612-13-7901	9612-13-7901	9612-13-7901	9612-13-7901
12■●♦□○◊	1	Stationary O-ring, EPDM (standard)	9611-99-2149	9611-99-2149	9611-99-2149	9611-99-2149
	1	Stationary O-ring, FPM	9611-99-2150	9611-99-2150	9611-99-2150	9611-99-2150
	1	Stationary O-ring, NBR	9611-99-2151	9611-99-2151	9611-99-2151	9611-99-2151
	1	Stationary O-ring, PTFE	9611-99-2152	9611-99-2152	9611-99-2152	9611-99-2152
13■●♦□○◊	1	Spring	9612-13-7601	9612-13-7601	9612-13-7601	9612-13-7601
14■●□○	1	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	1	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
◆◊	2	Rotating seal ring, Carbon	9612-13-6401	9612-13-6401	9612-13-6401	9612-13-6401
	2	Rotating seal ring, SC	9612-13-6402	9612-13-6402	9612-13-6402	9612-13-6402
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
◆◊	2	Rotating O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	2	Rotating O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	2	Rotating O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	2	Rotating O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
16	1	Adaptor	9612-13-5912	9612-13-5913	9612-13-5918	9612-13-4302
17	4	Adaptor screw	881-30173	881-30173	881-30173	881-30173
19	4	Adaptor spring washer	881-29835	881-29835	881-29835	881-29835
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-13-1107	9612-13-1108	9612-13-1108	9612-13-1108
23	1	Safety guard screw	31460-1309-1	31460-1309-1	31460-1309-1	31460-1309-1
24	6	Wingnuts	9611-41-6892	9611-41-6892	9611-41-6892	9611-41-6892
24a	6	Spring washer	9611-99-1888	9611-99-1888	9611-99-1888	9611-99-1888
25	1	Back plate polished	9612-13-8418	9612-13-8418	9612-13-8418	9612-13-8418
26□○◊	1	Joint ring, EPDM (standard)	9611-99-2171	9611-99-2171	9611-99-2171	9611-99-2171
	1	Joint ring, FPM	9611-99-2172	9611-99-2172	9611-99-2172	9611-99-2172
	1	Joint ring, NBR	9611-99-2173	9611-99-2173	9611-99-2173	9611-99-2173
	1	Joint ring, PTFE	9611-99-2174	9611-99-2174	9611-99-2174	9611-99-2174
28	6	Stud bolt	9611-99-2169	9611-99-2169	9611-99-2169	9611-99-2169
29	1	Pump casing 4x4	883-41705	883-41705	883-41705	883-41286
30a-35	1	Leg assembly	31460-1301-4	31460-1302-3	31460-1302-4	31460-1302-5
36	1	Impeller screw	9612-13-9603	9612-13-9603	9612-13-9603	9612-13-9603
37	1	Impeller polished, full	9612-12-8306	9612-12-8306	9612-12-8306	9612-12-8306
38□○◊	1	Impeller O-ring, EPDM (standard)	9611-99-2145	9611-99-2145	9611-99-2145	9611-99-2145
	1	Impeller O-ring, FPM	9611-99-2146	9611-99-2146	9611-99-2146	9611-99-2146
	1	Impeller O-ring, NBR	9611-99-2147	9611-99-2147	9611-99-2147	9611-99-2147
	1	Impeller O-ring, PTFE	9611-99-2148	9611-99-2148	9611-99-2148	9611-99-2148
40a	1	Seal housing - double mechanical	9612-13-3902	9612-13-3902	9612-13-3902	9612-13-3902
40b	1	Seal housing - flushed	9612-13-3901	9612-13-3901	9612-13-3901	9612-13-3901
41	2	Screw for seal housing	9611-99-0203	9611-99-0203	9611-99-0203	9611-99-0203
42	2	Water flush pipe	31457-0056-1	31457-0056-1	31457-0056-1	31457-0056-1
43●○	1	Lip seal	31446-0088-2	31446-0088-2	31446-0088-2	31446-0088-2
44●♦○◊	1	Seal housing O-ring	9611-99-2159	9611-99-2159	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	611-99-21453	611-99-21453	9611-99-2145	9611-99-2145
50◆◊	1	O-ring	9611-99-2156	9611-99-2156	9611-99-2156	9611-99-2156
51◆◊	1	Sec. stationary seal ring, SC	9612-13-8302	9612-13-8302	9612-13-8302	9612-13-8302
52◆◊	1	Spacer	9612-30-8901	9612-30-8901	9612-30-8901	9612-30-8901

Parts marked with ■, ●, ♦ are included in the seal kits.

Parts marked with ■, ●, ♦, □, ○, ◊ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-60, Sanitary version

Pos.	Qty.	Description	1-40 Hp Part No.
Seal Kit for Single Shaft Seal			
■	1	C/SC seal kit, EPDM	9612-1296-09
■	1	C/SC seal kit, NBR	9612-1296-10
■	1	C/SC seal kit, FPM	9612-1296-11
■	1	SC/SC seal kit, EPDM	9612-1296-05
■	1	SC/SC seal kit, NBR	9612-1296-06
■	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Flushed Shaft Seal			
●	1	C/SC seal kit, EPDM	9612-1296-09
●	1	C/SC seal kit, NBR	9612-1296-10
●	1	C/SC seal kit, FPM	9612-1296-11
●	1	SC/SC seal kit, EPDM	9612-1296-05
●	1	SC/SC seal kit, NBR	9612-1296-06
●	1	SC/SC seal kit, FPM	9612-1296-07
Seal Kit for Double Mechanical Shaft Seal			
◆	1	C/SC seal kit, EPDM	9612-1296-13
◆	1	C/SC seal kit, NBR	9612-1296-14
◆	1	C/SC seal kit, FPM	9612-1296-15
◆	1	SC/SC seal kit, EPDM	9612-1296-17
◆	1	SC/SC seal kit, NBR	9612-1296-18
◆	1	SC/SC seal kit, FPM	9612-1296-19
Parts marked with ■, ●, ◆ are included in the seal kits.			
Service Kit for Single Shaft Seal			
□	1	Service kit, EPDM	9611-92-2130
□	1	Service kit, NBR	9611-92-2131
□	1	Service kit, FPM	9611-92-2132
□	1	Service kit, PTFE	9611-92-2133
Service Kit for Flushed Shaft Seal			
○	1	Service kit, EPDM	9611-92-2134
○	1	Service kit, NBR	9611-92-2135
○	1	Service kit, FPM	9611-92-2136
○	1	Service kit, PTFE	9611-92-2137
Service Kit for Double Mechanical Shaft Seal			
◊	1	Service kit, EPDM	9911-92-2234
◊	1	Service kit, NBR	9611-92-2235
◊	1	Service kit, FPM	9611-92-2236
◊	1	Service kit, PTFE	9611-92-2237
Parts marked with □, ○, ◊ are included in the service kits.			
Conversion Kits			
1	Single to flushed shaft seal	9611-92-2042	
	(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		
1	Single to double mechanical shaft seal	9611-92-2175	
	(The conversion kit contains Pos. 14, 15, 40a, 41, 42, 44, 50, 51, 52)		
1	Flushed to double mechanical shaft seal	9611-92-2176	
	(The conversion kit contains Pos. 14, 40a, 50, 51, 52)		
Accessories			
1	Tool complete	9612-1371-01	

Recommended Spare Parts: Service kits

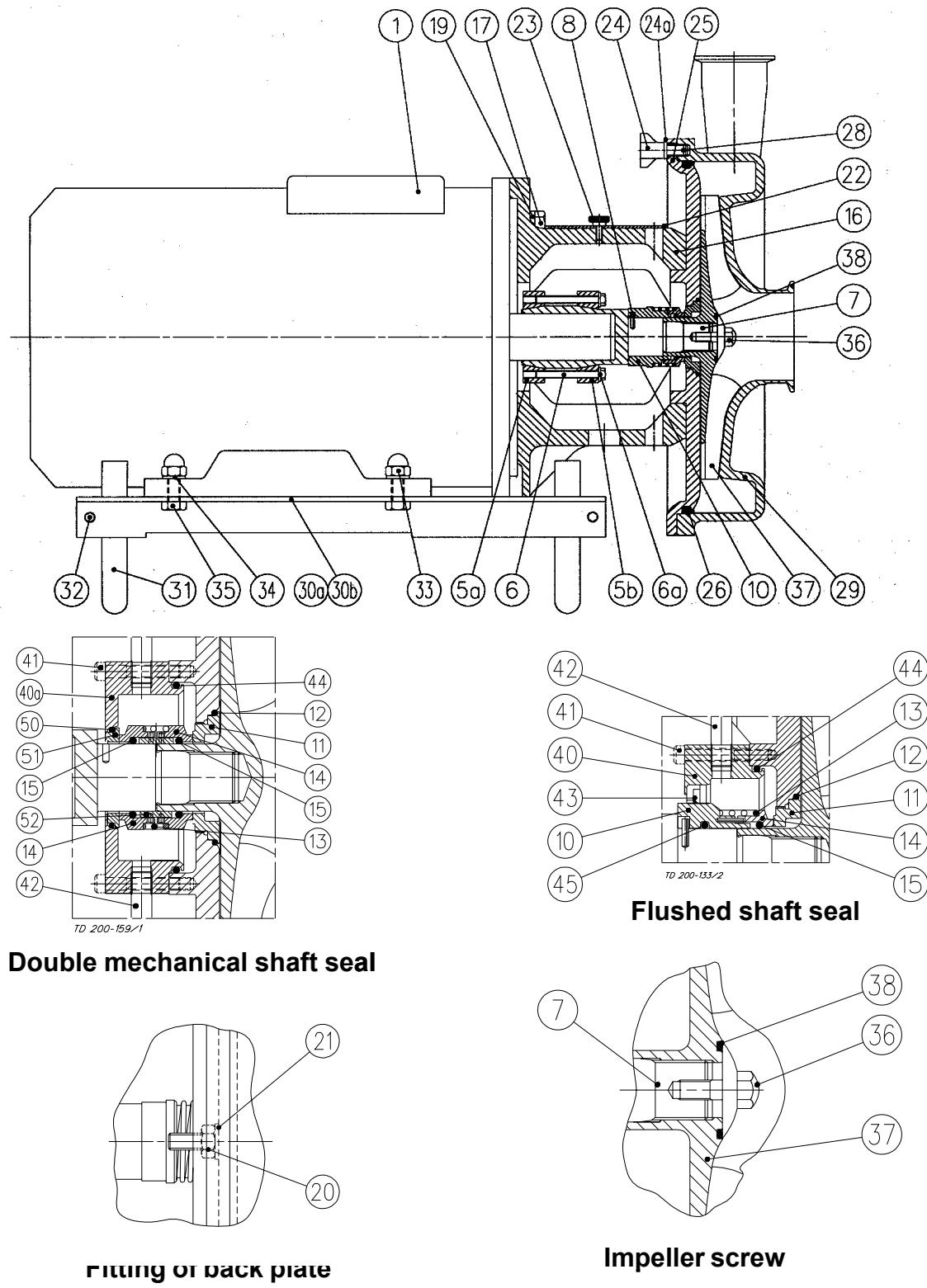
Drawing

The drawing shows LKH-10 - LKH-60, sanitary version.

The items refer to the parts list on pages 28-53.

LKH-10, -15, -20, -25, -35, -40, -45, -50, -60, Sanitary version

54



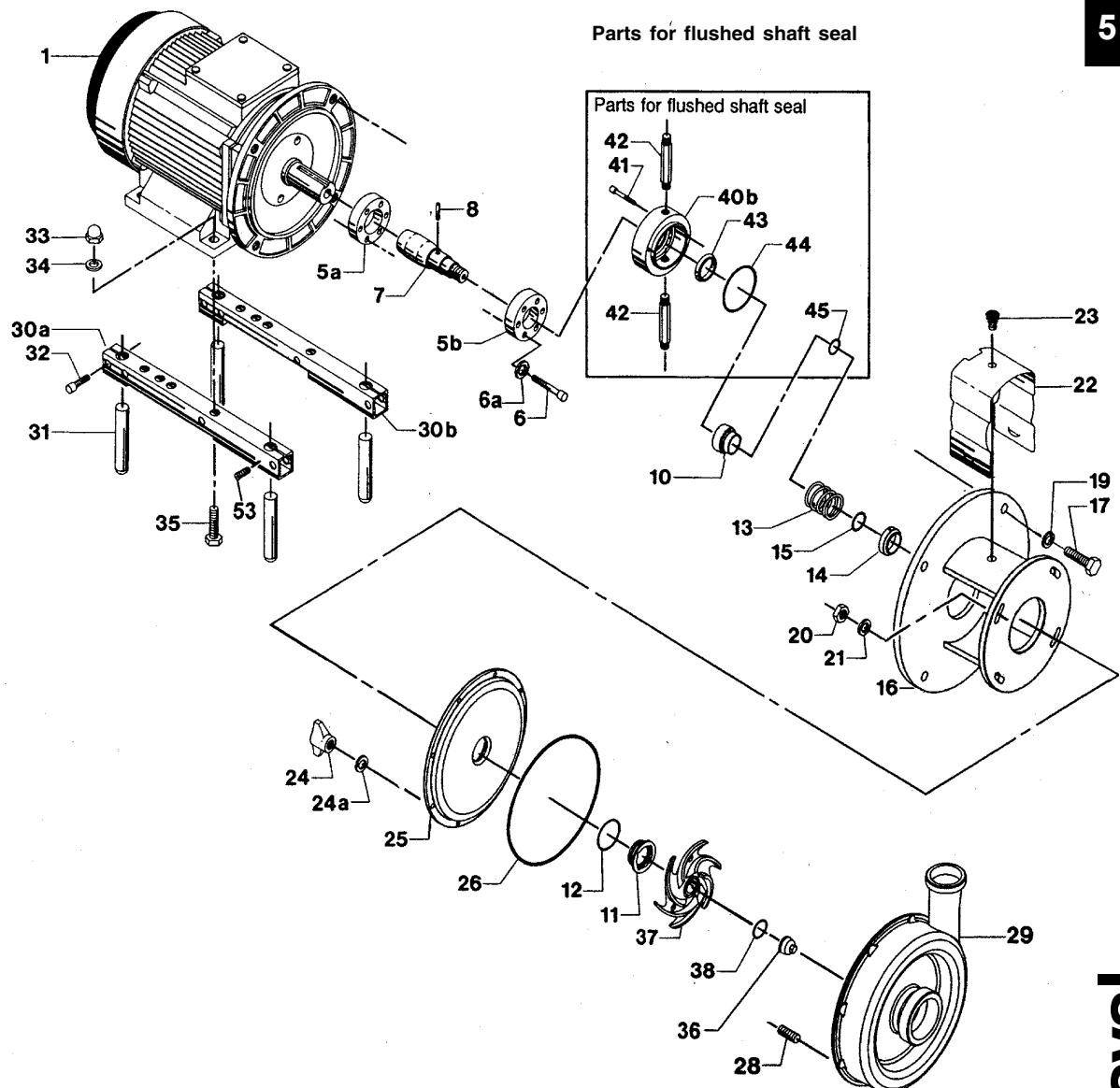
Exploded Drawing

This page shows an exploded drawing of LKH-50, sanitary version.

The drawing and the parts list include all items of the pump.

LKH-70, Sanitary version

55



Alfa Laval

Parts List

The drawing and the parts list include all items of the pump.

LKH-70, Sanitary version

56

Pos.	Qty.	Description	15-20 Hp Part No.	25-30 Hp Part No.	40-75 Hp Part No.	100 Hp Part No.
1	1	Motor				
5a	1	Compression ring with thread	9612-13-3603	9612-13-3603	9612-13-3604	9612-13-3607
5b	1	Compression ring without thread	9612-13-3703	9612-13-3703	9612-13-3704	9612-13-3707
6	6	Screw	9611-99-3198	9611-99-3198	9611-99-3198	9611-99-3198
6a	6	Washer	9611-99-3199	9611-99-3199	9611-99-3199	9611-99-3199
7	1	Stub shaft w/pin (pos. 8)	9612-51-2401	9612-51-2401	9612-51-2501	9612-51-2501
10	1	Drive ring - single & flush	9612-51-4901	9612-51-4901	9612-51-4901	9612-51-4901
11■●□○	1	Stationary seal ring, SC	9612-51-5201	9612-51-5201	9612-51-5201	9612-51-5201
12■●□○	1	Stationary O-ring, EPDM (standard)	9611-99-3223	9611-99-3223	9611-99-3223	9611-99-3223
	1	Stationary O-ring, FPM	9611-99-3225	9611-99-3225	9611-99-3225	9611-99-3225
	1	Stationary O-ring, NBR	9611-99-3224	9611-99-3224	9611-99-3224	9611-99-3224
	1	Stationary O-ring, PTFE	9611-99-3226	9611-99-3226	9611-99-3226	9611-99-3226
13■●□○	1	Spring	9612-51-5401	9612-51-5401	9612-51-5401	9612-51-5401
14■●□○	1	Rotating seal ring, Carbon	9612-51-5301	9612-51-5301	9612-51-5301	9612-51-5301
	1	Rotating seal ring, SC	9612-51-5302	9612-51-5302	9612-51-5302	9612-51-5302
15■●□○	1	Rotating O-ring, EPDM (standard)	9611-99-3219	9611-99-3219	9611-99-3219	9611-99-3219
	1	Rotating O-ring, FPM	9611-99-3221	9611-99-3221	9611-99-3221	9611-99-3221
	1	Rotating O-ring, NBR	9611-99-3220	9611-99-3220	9611-99-3220	9611-99-3220
	1	Rotating O-ring, PTFE	9611-99-3222	9611-99-3222	9611-99-3222	9611-99-3222
16	1	Adaptor	9612-51-2001	9612-51-2002	9612-51-1902	9612-51-1902
17	4	Adaptor screw	881-30173	881-30173	221-04-6370	221-04-6307
19	4	Adaptor spring washer	9611-99-1886	9611-99-1886	9611-99-1886	9611-99-1886
20	2	Adaptor nut	9611-99-0353	9611-99-0353	9611-99-0353	9611-99-0353
21	2	Washer	9611-99-2559	9611-99-2559	9611-99-2559	9611-99-2559
22	1	Safety guard	9612-51-4505	9612-51-4505	9612-51-4505	9612-51-4505
23	1	Safety guard screw	9611-99-2544	9611-99-2544	9611-99-2544	9611-99-2544
24	6	Wingnuts	9611-99-2593	9611-99-2593	9611-99-2593	9611-99-2593
24a	6	Spring washer	9611-99-1887	9611-99-1887	9611-99-1887	9611-99-1887
25	1	Back plate polished	883-41215	883-41215	883-41215	883-41215
26□○	1	Joint ring, EPDM (standard)	9611-99-3211	9611-99-3211	9611-99-3211	9611-99-3211
	1	Joint ring, FPM	9611-99-3213	9611-99-3213	9611-99-3213	9611-99-3213
	1	Joint ring, NBR	9611-99-3212	9611-99-3212	9611-99-3212	9611-99-3212
	1	Joint ring, PTFE	9611-99-3124	9611-99-3124	9611-99-3124	9611-99-3124
28	6	Stud bolt	9611-99-3214	9611-99-3214	9611-99-3214	9611-99-3214
29	1	Pump casing	883-39462	883-39462	883-39462	883-39462
30a-35	1	Leg assembly	31460-1302-3	31460-1302-4	31460-1302-5	31460-1302-5
36	1	Impeller screw	9612-50-1103	9612-50-1103	9612-50-1103	9612-50-1103
37	1	Impeller polished, full	883-39458	883-39458	883-39458	883-39458
38□○	1	Impeller O-ring, EPDM (standard)	9611-99-3215	9611-99-3215	9611-99-3215	9611-99-3215
	1	Impeller O-ring, FPM	9611-99-3217	9611-99-3217	9611-99-3217	9611-99-3217
	1	Impeller O-ring, NBR	9611-99-3216	9611-99-3216	9611-99-3216	9611-99-3216
	1	Impeller O-ring, PTFE	9611-99-3218	9611-99-3218	9611-99-3218	9611-99-3218
40	1	Seal housing - flushed	9612-51-4401	9612-51-4401	9612-51-4401	9612-51-4401
41	2	Screw for seal housing	9611-99-3232	9611-99-3232	9611-99-3232	9611-99-3232
42	2	Water flush pipe	9612-35-8903	9612-35-8903	9612-35-8903	9612-35-8903
43●○	1	Lip seal	9611-99-3263	9611-99-3263	9611-99-3263	9611-99-3263
44●○	1	Seal housing O-ring	9611-99-2153	9611-99-2153	9611-99-2153	9611-99-2153
45●○	1	Drive ring O-ring	31460-1056-1	31460-1056-1	31460-1056-1	31460-1056-1

Parts marked with ■, ● are included in the seal kits.

Parts marked with ■, ●, □, ○ are included in the service kits.

Recommended Spare Parts: Service kits

The drawing and the parts list include all items of the pump.

LKH-70, Sanitary version

Pos.	Qty.	Description	15-100 Hp Part No.
------	------	-------------	-----------------------

Seal Kit for Single Shaft Seal

■	1	C/SC Seal kit, EPDM	9612-5151-01
■	1	C/SC Seal kit, NBR	9612-5151-02
■	1	C/SC Seal kit, FPM	9612-5151-03
■	1	SC/SC Seal kit, EPDM	9612-5151-05
■	1	SC/SC Seal kit, NBR	9612-5151-06
■	1	SC/SC Seal kit, FPM	9612-5151-07

Seal Kit for Flushed Shaft Seal

●	1	C/SC Seal kit, EPDM	9612-5151-01
●	1	C/SC Seal kit, NBR	9612-5151-02
●	1	C/SC Seal kit, FPM	9612-5151-03
●	1	SC/SC Seal kit, EPDM	9612-5151-05
●	1	SC/SC Seal kit, NBR	9612-5151-06
●	1	SC/SC Seal kit, FPM	9612-5151-07

Parts marked with ■, ● are included in the seal kits.

Service Kit for Single Shaft Seal

□	1	Service kit, EPDM	9611-92-2238
□	1	Service kit, NBR	9611-92-2239
□	1	Service kit, FPM	9611-92-2240
□	1	Service kit, PTFE	9611-92-2241

Service Kit for Flushed Shaft Seal

○	1	Service kit, EPDM	9611-92-2242
○	1	Service kit, NBR	9611-92-2243
○	1	Service kit, FPM	9611-92-2244
○	1	Service kit, PTFE	9611-92-2245

Parts marked with ■, ●, □, ○ are included in the service kit.

Conversion Kit

1	Single to flushed shaft seal	9611-92-2246
(The conversion kit contains Pos. 10, 40, 41, 42, 43, 44, 45)		

Accessories

1	Tool complete	9612-1371-01
---	---------------------	--------------

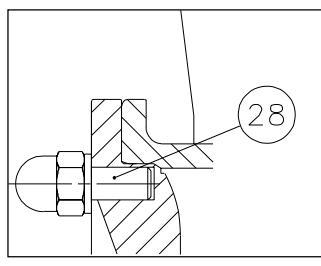
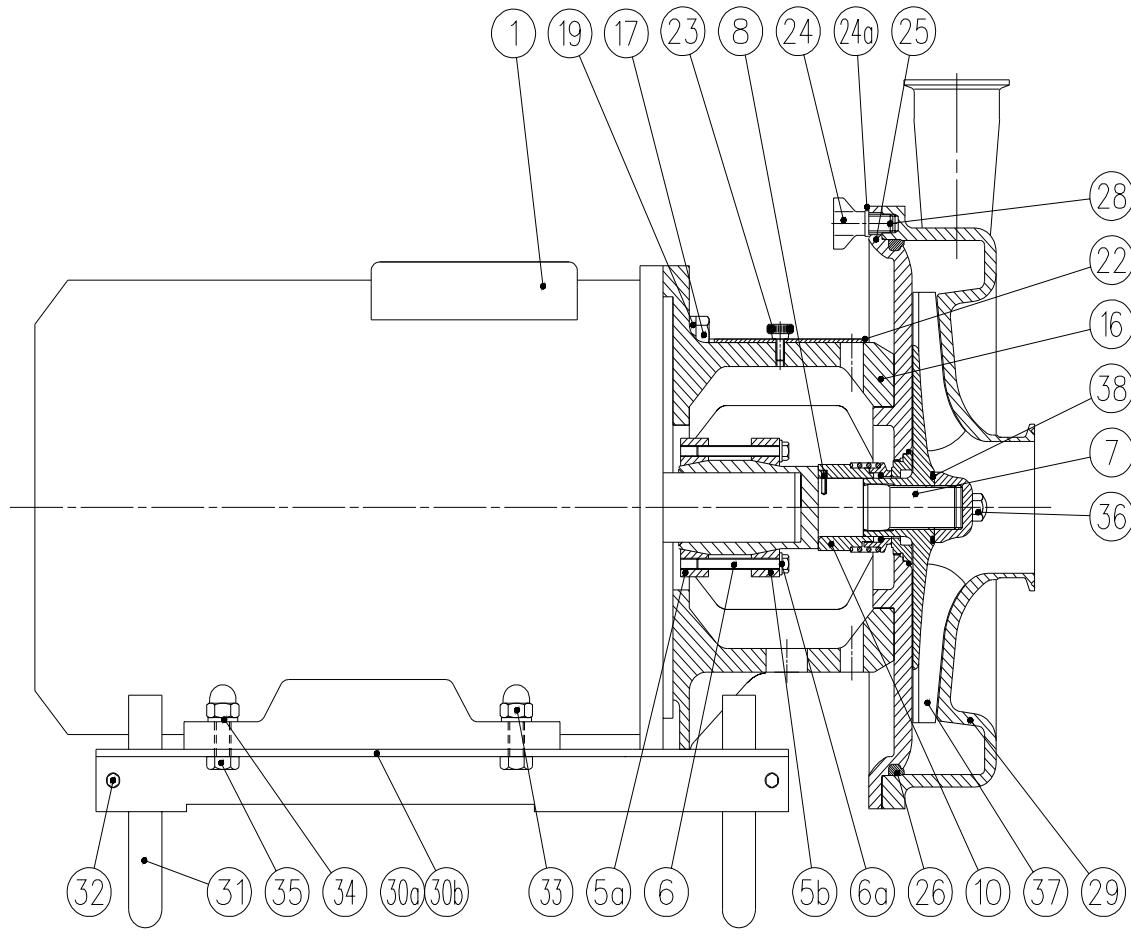
Drawing

58

The drawing shows LKH-70, sanitary version.

The items refer to the parts list on pages 56-57.

LKH-70, Sanitary version



Fitting of back plate



Flushed shaft seal

This page may be used for notes concerning the normal handling of the pump.

The best way to produce user-friendly manuals is through feedback from the user.

- Please see below

1. Notes

59

2. User Feedback

Our goal is to produce instruction manuals that meet your needs.

If you have any comments which may help us in our efforts to improve this manual, please send them to us.

Tel. (800) 558-4060
Fax. (262)-947-4724

Please write to:

Alfa Laval Flow Inc.
8201 104th Street,
Pleasant Prairie, WI 53158

Attn: Marketing Department

Thank you!

Alfa Laval Flow Inc.
P.O. Box 581909
8201 104th Street
Pleasant Prairie, WI 53158-0909
Telephone: 800-558-4060
Fax: 262-947-4724
www.us.flow.alfalaval.com

**LKH Centrifugal Pump
Operations Manual
August, 2000**