# TPE2/3 (D)

## TPE2/3 (D) Medium and Large

Service instructions

GRUNDFOS

# TPE2/3 (D)



**English (GB)**

Service instructions . . . . . 4

**Original service instructions**

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# 1. General information

Read this document before you start service work on the product. Service work must comply with local regulations and accepted codes of good practice.

Observe the safety instructions in the installation and operating instructions for the product.

## 1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

**DANGER**
Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.

**WARNING**
Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

**CAUTION**
Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:

**SIGNAL WORD**
**Description of the hazard**
Consequence of ignoring the warning

- Action to avoid the hazard.

## 1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.

Observe these instructions for explosion-proof products.

A blue or gray circle with a white graphical symbol indicates that an action must be taken.

A red or gray circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.

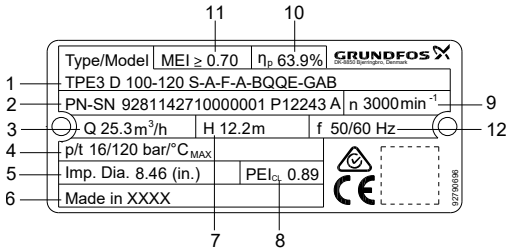
If these instructions are not observed, it may result in malfunction or damage to the equipment.

Tips and advice that make the work easier.

## 2. Identification

### 2.1 Nameplate

**Example:**

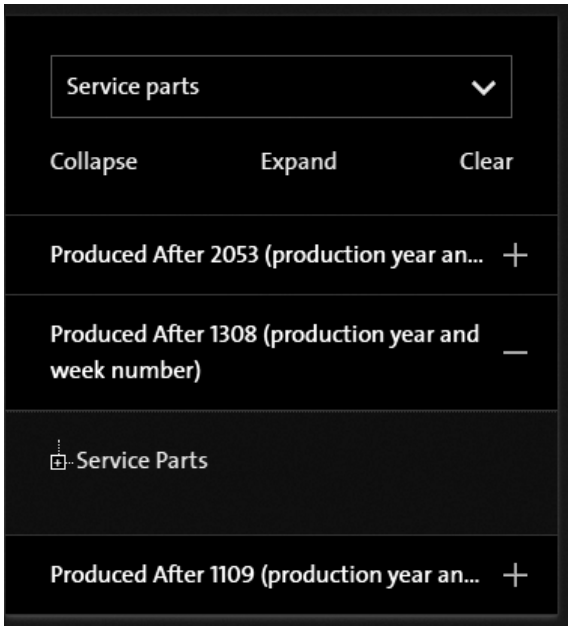



*Example of nameplate*

| Pos. | Description | |
|---|---|---|
| 1 | Type designation | |
| 2 | Identification code | |
| | 92811427 | Product number |
| | 10000001 | Serial number |
| | P1 | Production site code |
| | 2243 | Production year and week (YYWW) |
| | A | Service model |
| 3 | Nominal flow rate | |
| 4 | Pressure rating and maximum temperature | |
| 5 | Actual impeller diameter | |
| 6 | Country of origin | |
| 7 | Nominal pump head | |
| 8 | WRAS approval or Pump Energy Index (PEI)<br>$PEI_{CL}$: constant load<br>$PEI_{VL}$: variable load | |
| 9 | Rated pump speed | |
| 10 | Hydraulic efficiency at best efficiency point | |
| 11 | Minimum efficiency index | |
| 12 | Frequency | |

## 3. Looking up service parts in Grundfos Product Center

- Check the production code (PC code) on the nameplate before looking up service parts in Grundfos Product Center.
- The production code contains a year and week code which is used to ensure that correct service parts are selected.
- This is used when new service part/s cannot be used on previous models.
  - Example 1: Pump has a year-week code 1748. This means that the pump is "produced after 1308" (and before 2053) The service parts list "produced after 1308" must be used.
  - Example 2: Pump has a year-week code 2142. This means that the pump is "Produced after 2053" and that this service parts list must be used.




**Find your Grundfos Product Center here:**

## 4. Looking up service parts in Service Kit Catalogue

Extra service information can be found in the Service Kit Catalogue compared to the service information in Grundfos Product Center - such as:

- Full overview of service architecture including material variants.
- Small kit exploded view drawings with position numbers explain the bill of material of the service parts in details.
- If service is not available when searching product PN in Grundfos Product Center, the service parts can be found by looking into the type designation.
- No need for internet access with physical catalogue. PDF file can be downloaded to smart devices.

**Find your Service Kit Catalogue here:**

Service Kit Catalogues can be found in Grundfos Product Center.

## 5. Looking up service video in YouTube

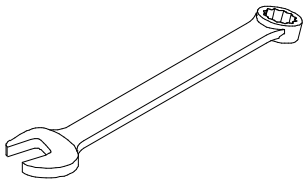
The service video of the whole dismantling and assembling process is available in YouTube website.

Scan the QR code to check the service video.

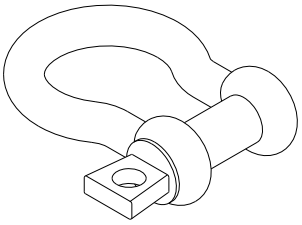
*Click here to check the service video.*

# 6. Service tool

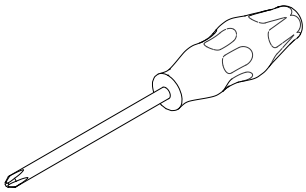
## 6.1 Standard tools



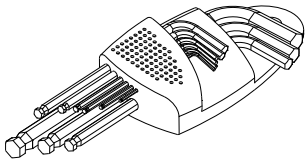
Ring/open-end spanner



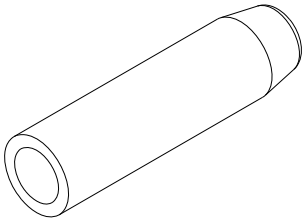
Lifting eye



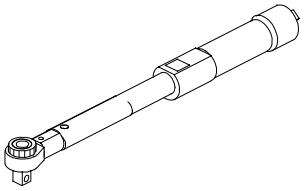
Philips screwdriver



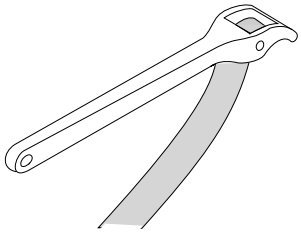
Hexagon key set



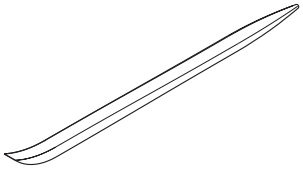
Mounting bush



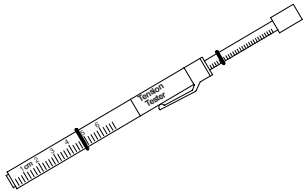
Torque wrench



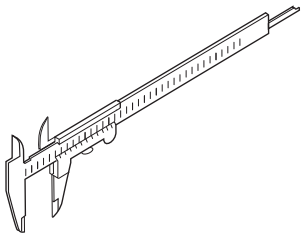
Strap wrench



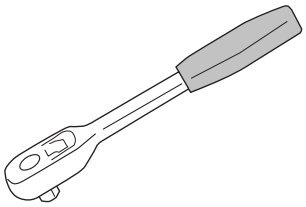
Pinch bar



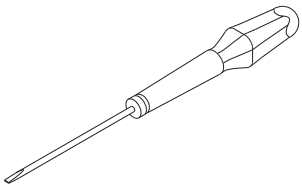
Gauge for inner diameter measurement of wear ring



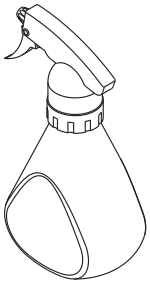
Sliding gauge



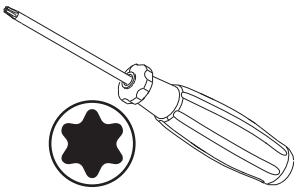
Ratchet spanner with socket



Flathead screwdriver



Sprayer

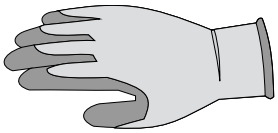


Torx Screwdriver

## 6.2 Personal Protective Equipment

Safety shoes

Safety helmet



Safety gloves

# 7. Dismantling the pump

## 7.1 Preparation

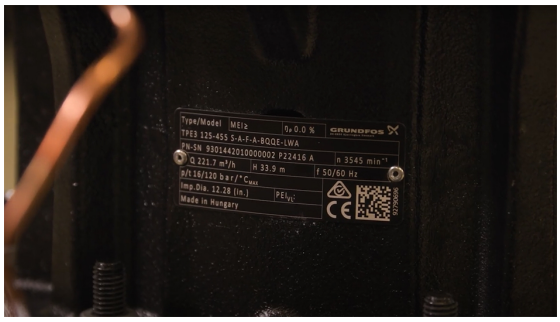
1. Find the service tools listed in section Service tools.

TM090810

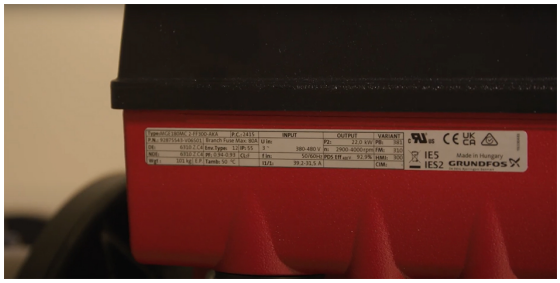
2. Bearing assembly tool can also be used for shaft seal.

TM088675

3. For pump and motor service, see the nameplate on the pump.



TM090811



TM090812

4. Switch off all electrical power supply before performing any service actions.

**DANGER**
**Electric shock**
Death or serious personal injury
- Before starting work on the pump, make sure that the power supply has been switch off and that it cannot be accidentally switched on.

## 7.2 Lifting the pump

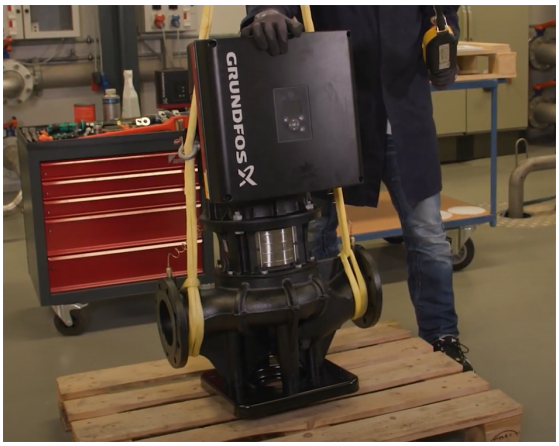
1. Use motor's lifting eyes to stabilize the complete product.

TM090814

2. Use the lifting gear to hook the lifting strap.

**DANGER**
**Overhead load**
Death or serious personal injury
- Only use certified lifting gear.

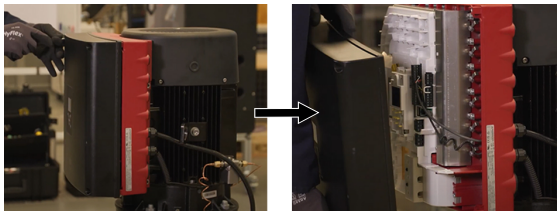
3. Position the pump on a level, stable pallet.



TM090841

### 7.3 Dismantling the sensors

1. Loosen the four screws to remove the motor cover.

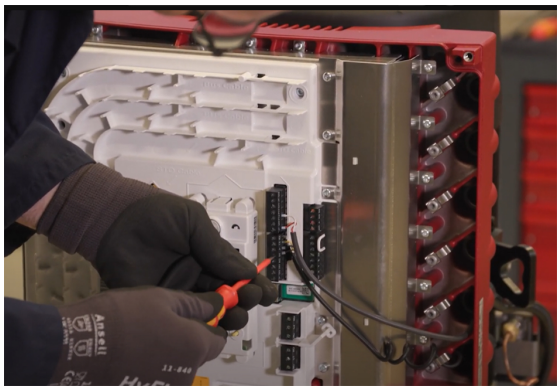


TM090815

2. Take a picture of the terminal connections or consult the I&O manual.

TM090816

3. Loosen the connections of the pressure sensor.

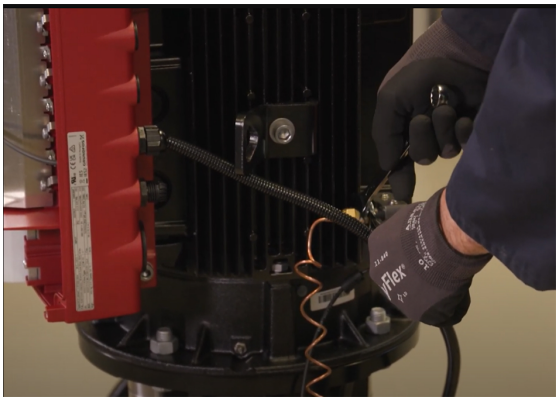


TM090817

4. Loosen the cable relief and unscrew the cable gland.

TM090818

5. Loosen the capillary tubes from the sensor and pump housing.

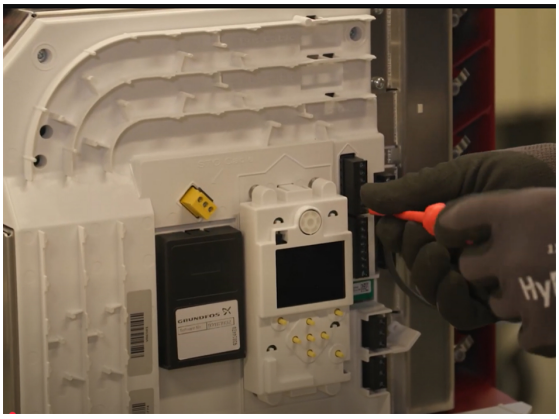


TM090819

6. Remove the sensor and bracket from the motor.

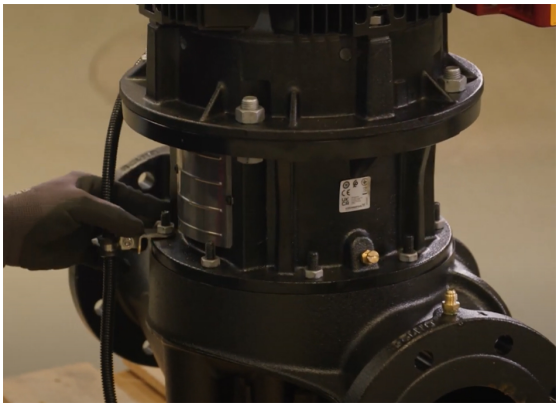
TM090820

7. Loosen the wire connections of the temperature sensor.



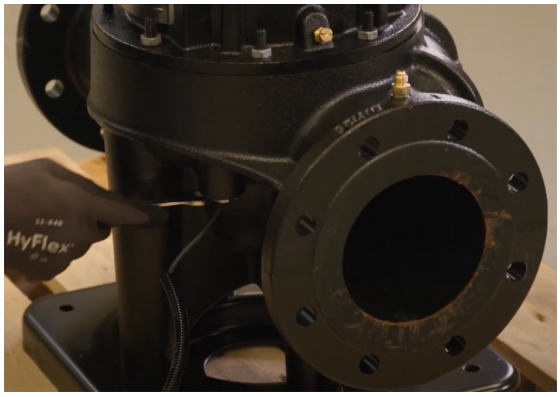
TM090821

8. Remove the cable support for the temperature sensor.



TM090822

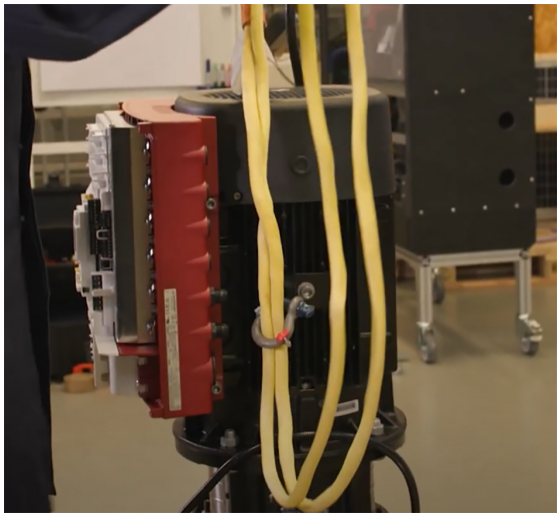
9. Remove the temperature sensor from the pump housing.




TM090823

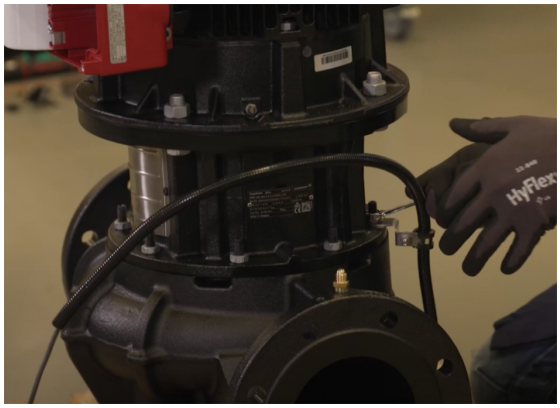
## 7.4 Lifting the motor

1. Attach the lifting gear to the motor or motor stool.



TM090824

2. Remove the motor stool from pump.

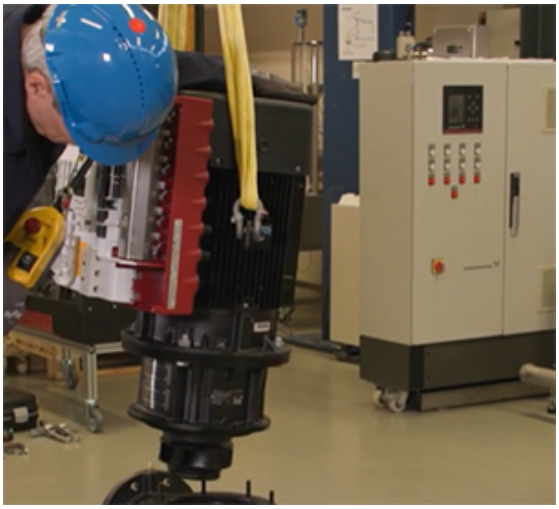



TM090825

3. Use a crowbar to disengage the motor stool, if required.

TM090826

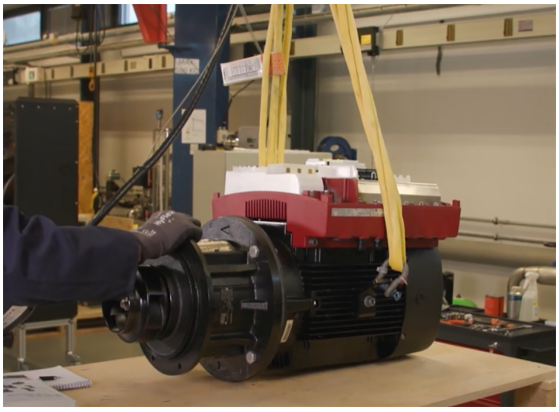
4. Lift the motor or motor stool for servicing.



TM090827

**DANGER**
**Overhead load**
Death or serious personal injury
- Only use certified lifting gear.

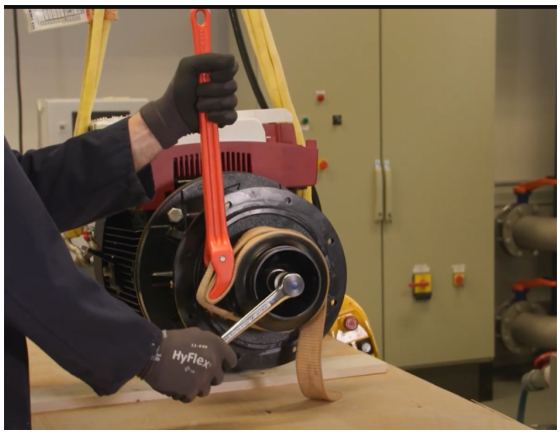
5. Position the unit on a suitable workbench and secure it firmly.



TM090828

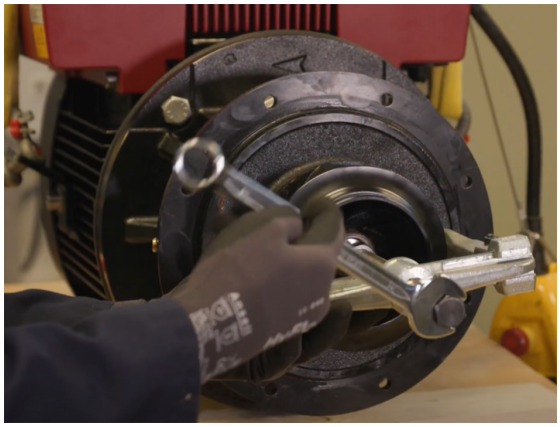
## 7.5 Dismantling the impeller and shaft seal

1. Loosen the round nut of impeller from shaft and remove the washers.



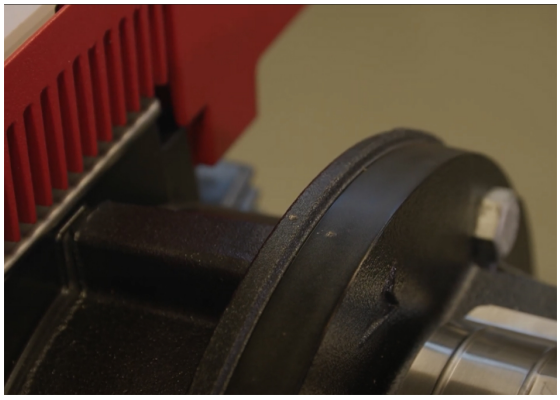

TM090829

2. Reinstall the round nut to protect the shaft thread.
3. Remove the impeller with a puller.



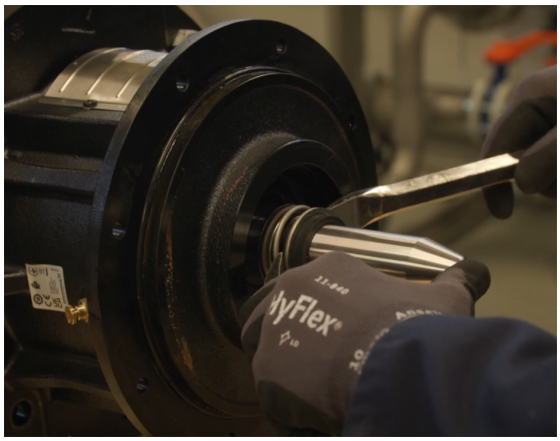
TM090837

4. Mark the alignment position between the motor stool and motor flange.



TM090838

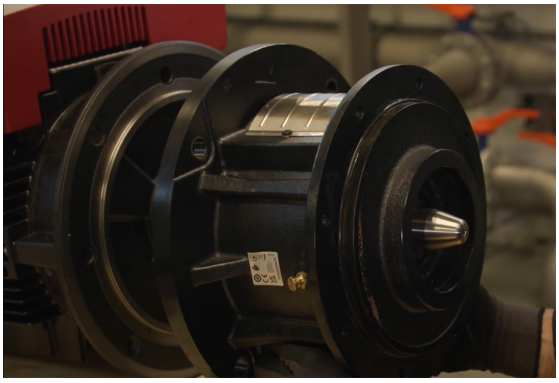
5. Remove the shaft seal with crowbars.




TM090839

Considering use a protection tool (drawing available in Grundfos Service Knowledge).

6. Loosen the screws on motor stool to remove the motor stool.



TM090842

For heavy motor stools, use appropriate lifting aid.

Take care not to damage the stationary part of the shaft seal.

7. Remove stationary shaft seal part.

TM090843

Make sure not to touch the seal surface.

### 7.6 Dismantling the pump shaft

1. Loosen the set screws on shaft.

TM090844

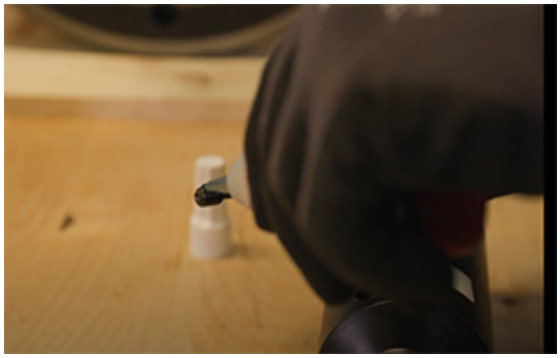
2. Remove the pump shaft from the motor shaft.

TM090845

## 8. Assembling the pump

### 8.1 Assembling the pump shaft

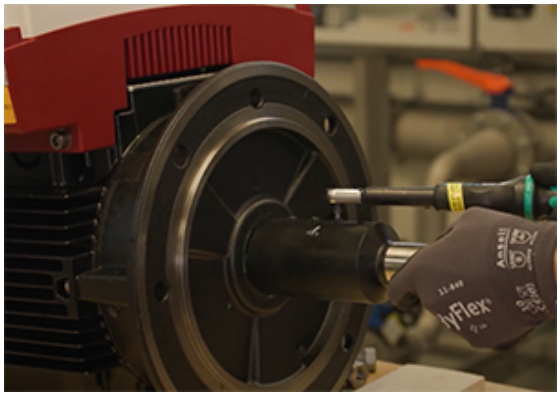
1. Apply threadlocker to the set screw.



TM090850

Threadlocker recommendation: Loctite 2700.

2. Install and tighten the set screws with torque, M6/8Nm - M8/15Nm.




TM090851

### 8.2 Assembling the motor stool

1. Clean the interface between the motor stool and motor flange.

TM090852

2. Secure the motor stool at the correct position using the alignment mark.

TM090853

3. Apply locally approved thread lubricant (Never Seez) to bolts.

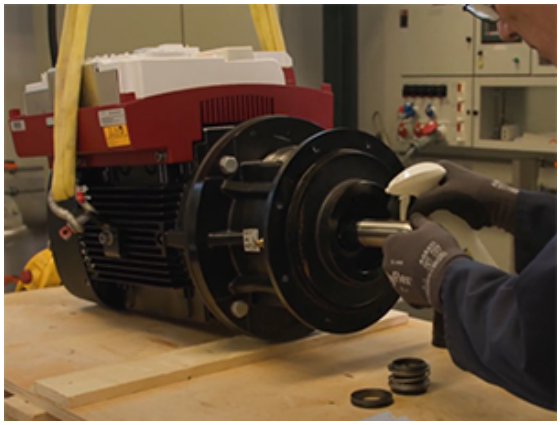
TM090854

4. Tighten the bolts or nuts with suitable torque, M10/40Nm - M12/70Nm - M16/145Nm.

TM090855

### 8.3 Assembling the shaft seal

1. Lubricate the shaft with soapy water.



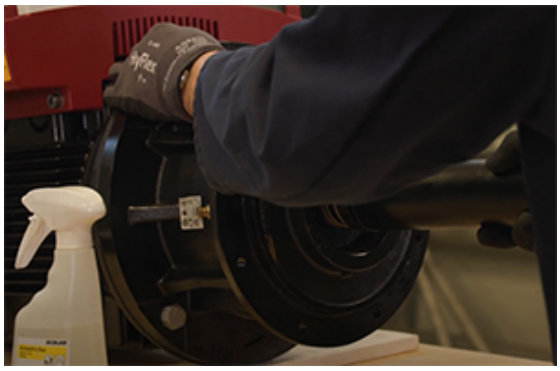
TM090856

2. Install stationary shaft seal part.

TM090857

Keep sealing surface absolutely clean. Be careful not to damage the sealing surface.

3. Lubricate the shaft with soapy water and install the rotating shaft seal part.
4. Use the pusher tool from bearing assembly set to install the shaft seal.



TM090858

### 8.4 Assembling the impeller

1. Check the gap between impeller and wear ring.
2. Take diameter measurements of the impeller at clock positions 12–6 and 3–9. Note the readings.

TM090846

3. Take diameter measurements of the wear ring at clock positions 12–6 and 3–9. Note the readings.

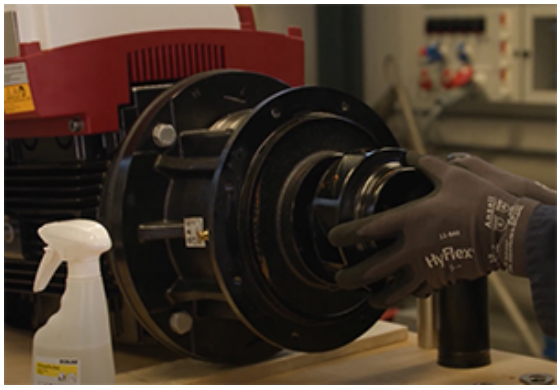
TM090848

Maximum gap values can be checked with illustrated service instructions.

4. Install the key onto the shaft.

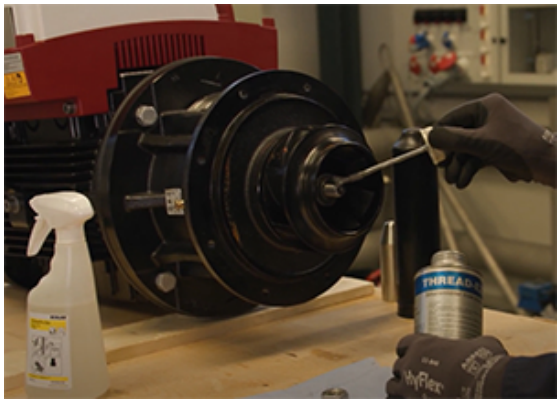
TM090859

5. Install the impeller, washer and lock washer to the shaft.



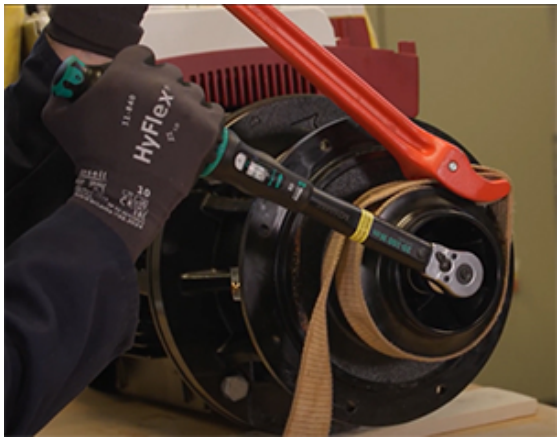
TM090860

6. Apply the locally approved thread lubricant to shaft thread and then install the shaft nut.



TM090861

7. Tighten the impeller nut with torque, M14/65Nm - M18/120Nm - M24/300Nm.



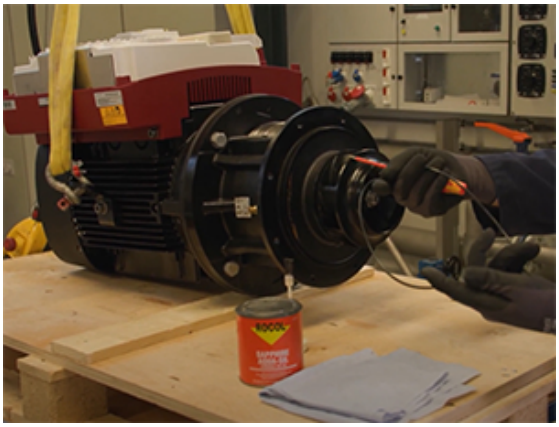
TM090862

**Related information**

*10.2 Seal gap between impeller and wear ring of pump housing*

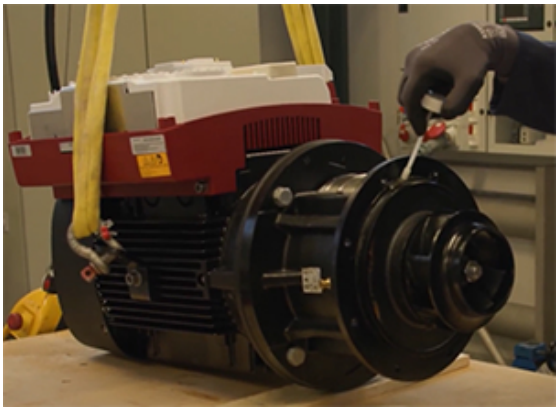
## 8.5 Replacing the O-ring

1. Inspect the O-ring, clean it or replace it if worn.



TM090863

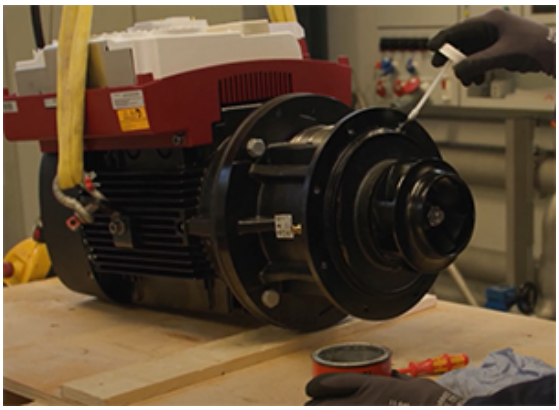
2. Apply locally approved lubricant to the O-ring interface of motor stool, then install the O-ring.



TM090864

Lubricants recommendation: Rocol sapphire aqua SIL.

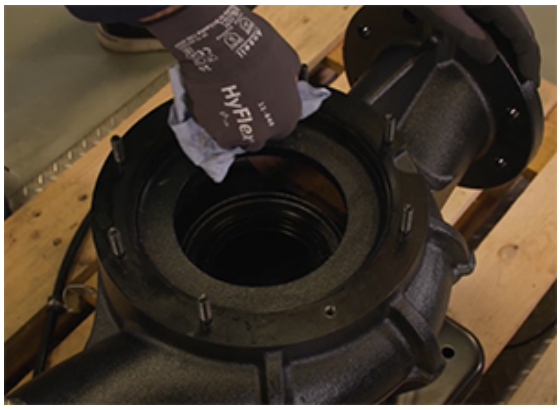
3. Apply the lubricant to the installed O-ring.



TM090865

## 8.6 Assembling the motor to pump housing

1. Inspect, clean and lubricate the O-ring interface of pump housing.



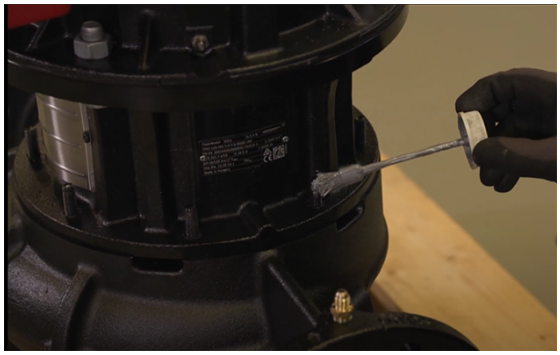

TM090866

2. Use only certified lifting gear via motor lifting eyes to secure balance of the complete product.

TM090867

**DANGER**
**Overhead load**
Death or serious personal injury
- Only use certified lifting gear.

3. Assemble the motor or motor stool to the pump housing.
4. Rock the motor unit to ensure that the assembly is seated correctly and secure.
5. Apply locally approved thread lubricant to the bolts thread, then install the nuts.



TM090868

Lubricants recommendation: Never Seez.

## 8.7 Assembling the pressure sensor

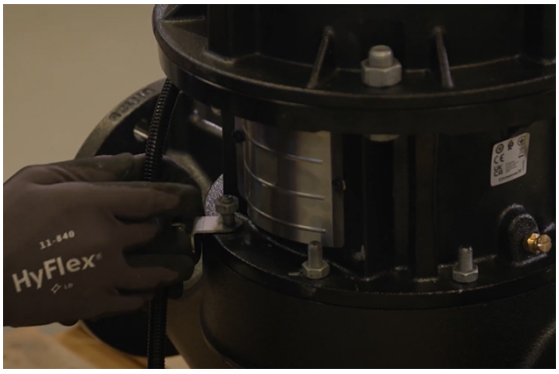
1. Apply locally approved thread sealing, then assemble the temperature sensor.

TM090870

2. Tighten the temperature sensor with torque R1/4 26Nm.

TM090871

3. Install the temperature sensor bracket.

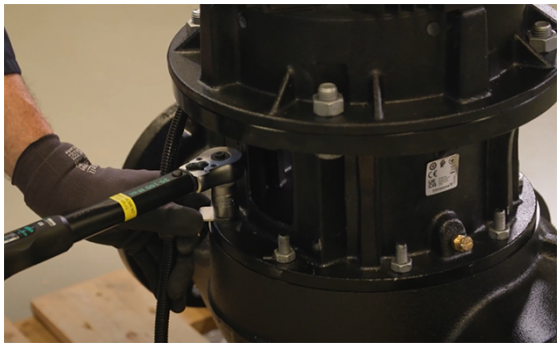



TM090872

4. Remove the shaft guards and verify that the shaft rotates freely.

TM090873

5. Tighten the motor stool nuts with torque.



TM090874

Tightening torque: M10 - 40Nm; M12 - 70Nm; M16 - 145Nm; M24 - 200Nm.

6. After tightening the nuts verify that the shaft rotates freely.
7. Install the shaft guards with torque M5 - 5Nm.

Pay attention to the correct orientation of the Grundfos logo.

8. Remove the clip of the pressure sensor, then dismantle the pressure sensor.

TM090875

Note the orientation of the sensor in the housing.

9. Remove the sealing cap from the sensor housing.

TM090876

Note the orientation of the sealing cap and the sensor in the housing.

10. Inspect and clean the sealing cap and the sensor housing.
11. Lubricate the sealing cap with locally approved lubricants (example: Rocol sapphire aqua SIL).

Apply only a minimal amount of lubricant, ensuring the orifices of the sealing cap and sensor remain unobstructed.

12. Install the sealing cap and sensor housing.

TM090899

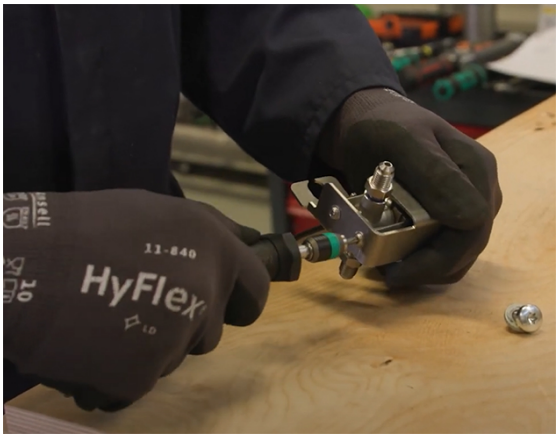
13. Install the clip to the sensor housing.

TM090900

Note the low P2/high P1 pressure side of the sensor housing before the installation.

TM090901

14. Tighten the sensor bracket screws with torque, M4 - 2.5Nm.

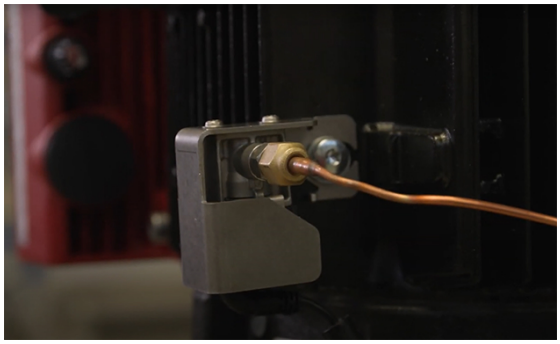



TM090902

15. Assemble the sensor bracket to the motor. Tighten the sensor/ bracket screw with torque, M6/5.5Nm - M8/11Nm.

TM090903

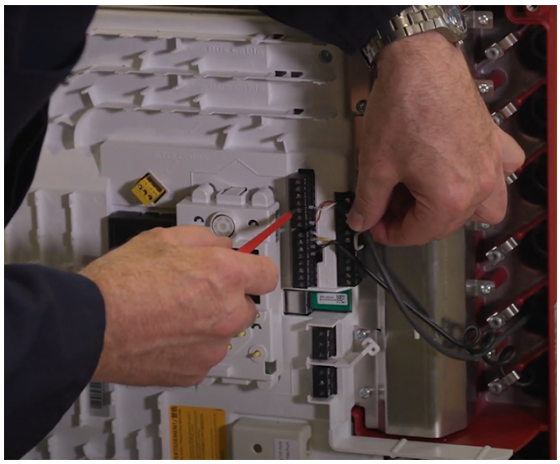
16. Install the capillary tubes.



TM090904

17. Tighten the capillary fittings with torque 10Nm.

18. Refer to the picture of the terminal connections or the I&O manual. Connect the cable connections to the sensors.



TM090950

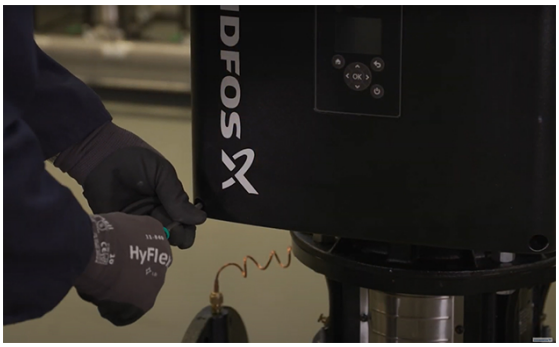
19. Tighten the cable gland with torque M20/3Nm.

TM090905

20. Tighten the cable relief clamps with torque M5/5Nm.

TM090906

21. Install the terminal box cover with screws, tightening torque - 4.5Nm.



TM090907

## 9. Fault finding

**DANGER**
**Electric shock**
Death or serious personal injury
- Switch off the power supply to the motor and to the signal relays. Wait at least 5 minutes before starting any work on the motor. Make sure that the power supply cannot be accidentally switched on.

**DANGER**
**Magnetic field**
Death or serious personal injury
- If the pump is used for a liquid which is injurious to health, it will be classified as contaminated. In such cases, take proper precautions to avoid injury to health when operating or working on the pump.
- Wear personal protection equipment.

**WARNING**
**Hazardous liquids**
Death or serious personal injury
- If the pump is used for a liquid which is injurious to health, it will be classified as contaminated. In such cases, take proper precautions to avoid injury to health when operating or working on the pump.
- Wear personal protection equipment.

**CAUTION**
**Hot or cold liquids**
Minor or moderate personal injury
- Wear personal protection equipment.

### 9.1 The motor does not run when started

| Cause | Remedy |
|---|---|
| Supply failure. | • Check the electrical connection.<br>• Remedy, if necessary. |
| The fuses are blown. | • Replace the fuse. |
| The motor is defective. | • Replace the motor. |

### 9.2 Motor alarm when the power supply is switched on

| Cause | Remedy |
|---|---|
| Supply failure. | • Check the electrical connection.<br>• Remedy, if necessary. |
| The cable connection is loose or faulty. | • Repair cable connection. |
| The motor winding is defective. | • Repair the motor. |
| The pump is mechanically blocked. | • Clean the pump. |

### 9.3 Occasional motor alarm

| Cause | Remedy |
|---|---|
| The supply voltage is periodically too low or too high. | • Make sure the input supply voltage stable. |

### 9.4 No motor alarm, but the pump does not run

| Cause | Remedy |
|---|---|
| Check the power supply. | • Make sure the power supply connected. |
| Check the fuses. | • Replace the fuse, if defective. |

### 9.5 The pump performance is not constant

| Cause | Remedy |
|---|---|
| The pump inlet pressure is too low. | • Increase the inlet pressure. |
| The inlet pipe or pump is partly blocked by impurities. | • Clean the inlet pipe or pump. |
| The pump draws in air. | 1. Increase the liquid level on the inlet side.<br>2. Keep the liquid level as constant as possible.<br>3. Increase the inlet pressure. |

### 9.6 The pump runs but delivers no water

| Cause | Remedy |
|---|---|
| The inlet pipe or pump is blocked by impurities. | • Clean the inlet pipe or pump. |
| The foot or non-return valve is blocked in closed position. | • Repair the foot or non-return value. |
| There is a leakage in the inlet pipe. | • Check the gaskets and bolts torque.<br>• Replace gaskets, if defective. |
| There is air in the inlet pipe or pump. | • Vent the inlet pipe or the pump. |

### 9.7 The pump runs backwards when switched off

In twin-head pump installations, the backup pump often rotates slowly.

| Cause | Remedy |
|---|---|
| There is a leakage in the inlet pipe. | • Check the gaskets and bolts torque.<br>• Replace gaskets, if defective. |
| The foot or non-return valve is defective. | • Replace the foot or non-return valve, if defective. |
| The foot or non-return valve is blocked in open or partly open position. | • Repair the foot or non-return value. |

### 9.8 Leakage in shaft seal

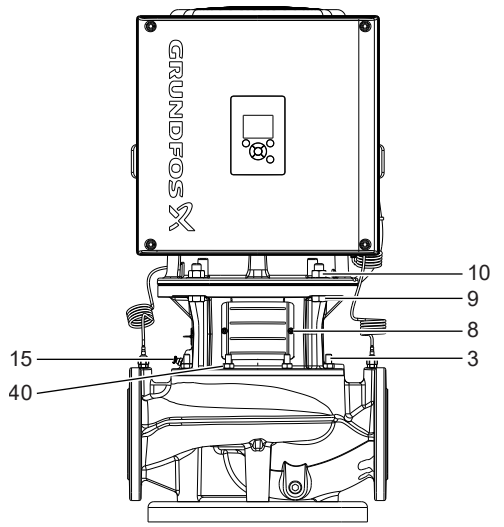
| Cause | Remedy |
|---|---|
| The shaft seal is defective. | • Replace the shaft seal. |

### 9.9 Noise

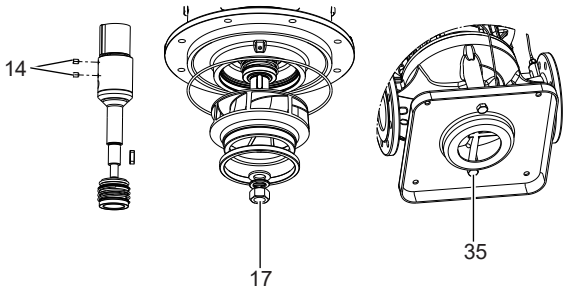
| Cause | Remedy |
|---|---|
| The pump is cavitating. | • Increase inlet pressure. |
| The pump does not rotate freely (frictional resistance) because of incorrect pump shaft position. | • Check the motor bearing, wear ring and impeller, shaft seal.<br>• Replace them, if worn out or blocked. |
| There is resonance in the installation. | • Fasten the support on foundation.<br>• Add damping joints.<br>• Make sure the pipes are properly supported. |
| There are foreign bodies in the pump. | • Clean the pump. |

# 10. Reference information

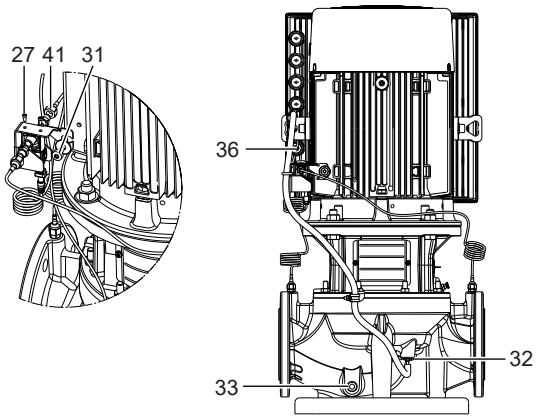
## 10.1 Tightening torque




TM091062




TM091063




TM091064

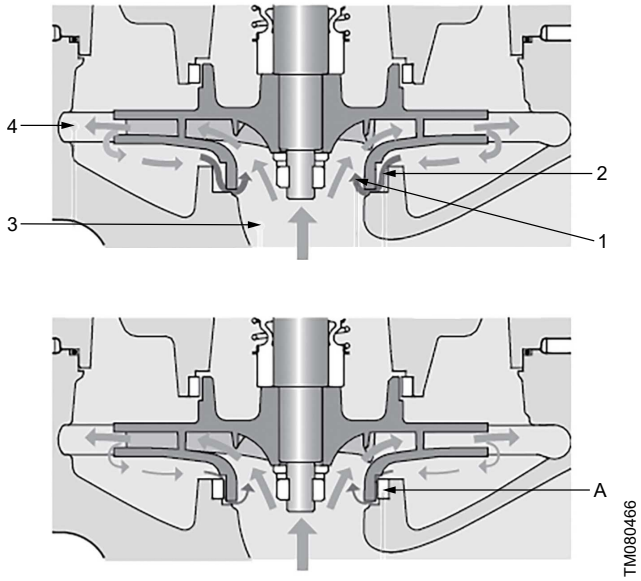
| Pos. | Recommended torque | |
|---|---|---|
| 3 | Stay bolts connecting motor stool and pump housing | Recommended Torque (Nm) |
| | M10 | 40±8 |
| | M12 | 70±15 |
| | M16 | 145±30 |
| | M24 | 200±40 |
| 8 | Screws on shaft guard | Recommended Torque (Nm) |
| | M5 | 5±1 |
| 10 | Hex nut connecting motor stool and motor | Recommended Torque (Nm) |
| | M10 | 40±8 |
| | M12 | 70±15 |
| | M16 | 145±30 |

| Pos. | Recommended torque | |
|---|---|---|
| 14 | Socket set screw on shaft | Recommended Torque (Nm) |
| | M6 | 8±2 |
| | M8 | 15±3 |
| 15 | Vent plug | Recommended Torque (Nm) |
| | R1/8 | 9±1 |
| 17 | Nut for impeller | Recommended Torque (Nm) |
| | M14 | 65±7 |
| | M18 | 120±10 |
| | M24 | 300±35 |
| 27 | Pan washer head screw on sensor bracket | Recommended Torque (Nm) |
| | M4 | 2.5±0.5 |
| 31 | Pan washer head screw on sensor bracket | Recommended Torque (Nm) |
| | M6 | 5.5±0.5 |
| | M8 | 11±1 |
| 32 | Temperature sensor PT100/Plug | Recommended Torque (Nm) |
| | R1/4 | 20±2 |
| 33 | Plug | Recommended Torque (Nm) |
| | R3/8 | 25±6 |
| | R1/2 | 30±7 |
| | NPT1/4 | 23±1 |
| 35 | Bolt on base plate | Recommended Torque (Nm) |
| | M16 | 145±30 |
| 36 | Cable glands on motor | Recommended Torque (Nm) |
| | M20 × 1.5-10 | 3±0.5 |
| 40 | Hex nuts connecting motor stool and pump housing | Recommended Torque (Nm) |
| | M10 | 40±8 |
| | M12 | 70±15 |
| | M16 | 145±30 |
| | M24 | 200±40 |
| 41 | Capillary tube | Recommended Torque (Nm) |
| | | 19±1 |

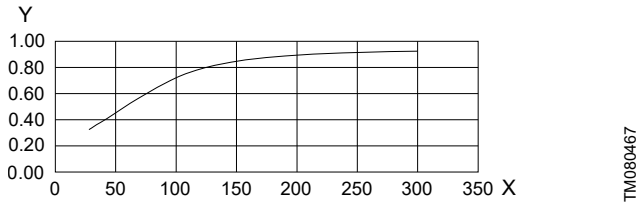
## 10.2 Seal gap between impeller and wear ring of pump housing

A leak flow (1) will occur in gap (2) between the rotating impeller and the stationary pump housing when the pump is operating. Leak flow (1) returns to impeller inlet (3) through gap (2).

Thus, the impeller must pump both leak flow (1) and the fluid through the pump from inlet (3) flange to outlet (4) flange. To minimize leak flow (1), an interchangeable wear ring (impeller seal) (A) is mounted.




We recommend that the seal gap never exceeds the maximum limit curve calculated according to an efficiency loss of maximum 2 %.




| | |
|---|---|
| X | Outlet DN |
| Y | Maximum seal gap [mm] |

**Recommended wear-tolerance specifications:**

The above curve indicates recommended maximum seal gap in relation to pump outlet DN. The below table list the reference dimension of WR/PH and IMP as well as the recommended maximum seal gap. If the measured seal gap exceeds maximum values, it is recommended to replace the worn parts. The reference dimension support determining which part to replace.

| Seal gap | |
|---|---|
| Reference (mm) WR/PH inside - IMP outside | Gap (mm) complete |
| 61 | 1 |
| 73 | 1 |
| 76 | 1 |
| 79.5 | 1 |
| 90 | 1 |
| 100 | 1 |
| 112 | 1 |
| 122 | 1.2 |
| 130 | 1.2 |
| 144 | 1.2 |
| 154 | 1.2 |
| 185 | 1.2 |
| 200 | 1.4 |
| 210 | 1.4 |

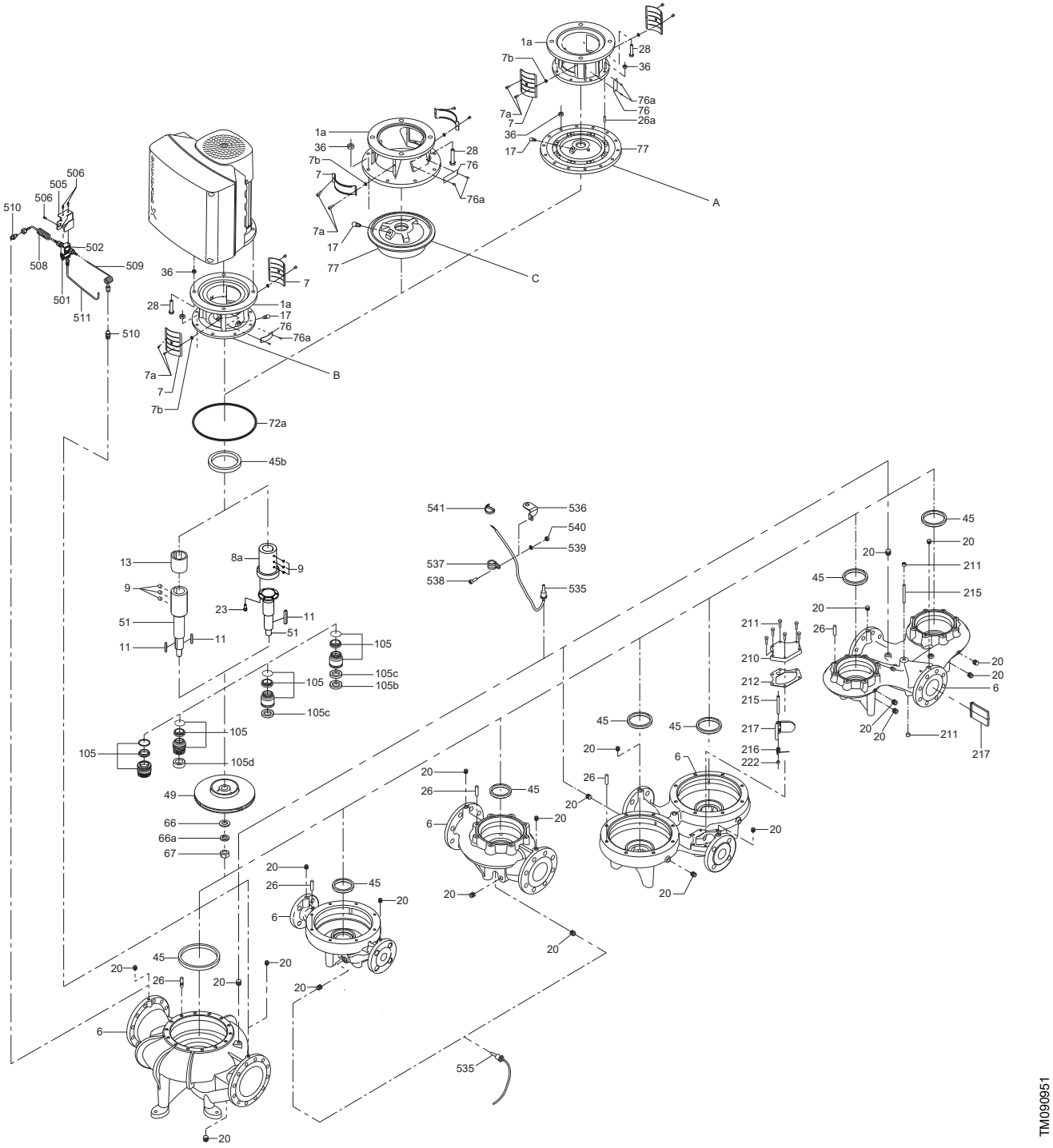
**Abbreviation**

| | |
|---|---|
| WR | Wear ring |
| PH | Pump house |
| IMP | Impeller |
| CI | Cast iron |

**Related information**

*8.4 Assembling the impeller*

## 11. Exploded view



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