JP

Service instructions

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GRUNDFOS

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Read this document before starting service work on the product. Installation and 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. General information

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 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 grey circle with a white graphical symbol indicates that an action must be taken.

A red or grey 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. Safety information for working on the product

WARNING

Electric shock

Death or serious personal injury

- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.

WARNING

Electric shock

Death or serious personal injury

- The product is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that the product is connected only to a properly grounded, grounding-type receptacle (protective earth).

WARNING

Electric shock

Death or serious personal injury

- Power cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.

WARNING

Electric shock

Death or serious personal injury

- If the product is used for cleaning or maintenance of swimming pools, garden ponds or similar places, make sure that the product is supplied through a residual-current device (RCD) with a rated residual operating current not exceeding 30 mA.

WARNING

Chemical hazard

Death or serious personal injury

- Make sure that the product has only been used for water. If the product has been used for pumping aggressive liquids, flush the system with clean water before you start work on the product.

WARNING

Pressurised system

Death or serious personal injury

- Before dismantling the pump, drain the system or close the isolating valves on both sides of the pump. Slowly loosen the drain plug and unpressurise the system

CAUTION

Impurities in the water

Minor or moderate personal injury

- Before the pump is used for supplying drinking water, flush the pump thoroughly with clean water.

CAUTION

Crushing of feet

Minor or moderate personal injury

- Wear safety shoes when handling the product.

CAUTION

Hot surface

Minor or moderate personal injury

- Use protective gloves if the liquid or ambient temperature is higher than 40 °C.

CAUTION

Hot or cold liquid

Minor or moderate personal injury

- Make sure that escaping hot or cold liquid does not cause injury to persons or damage to the equipment.

Only qualified persons are allowed to service the pump.

Do not turn on the power supply until the pump has been filled with liquid.

3. Maintainance

The product is maintenance-free during normal operation. For cleaning, use a dry and dust-free cloth.

4. Mounting the handle

Position numbers of parts (numbers in brackets) refer to section *7.6 Exploded view*.

1. Fit the handle (190) on the motor flange.

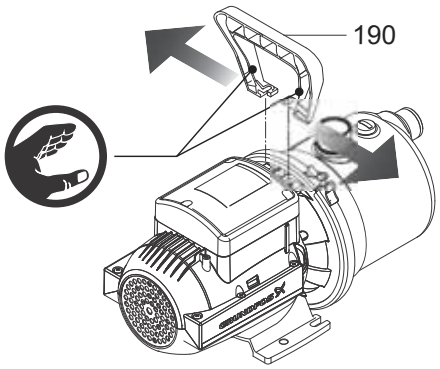

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Fig. 1 Mounting the handle

2. Place each screw (190b) with the washer on top and the hexagon nut at the bottom.

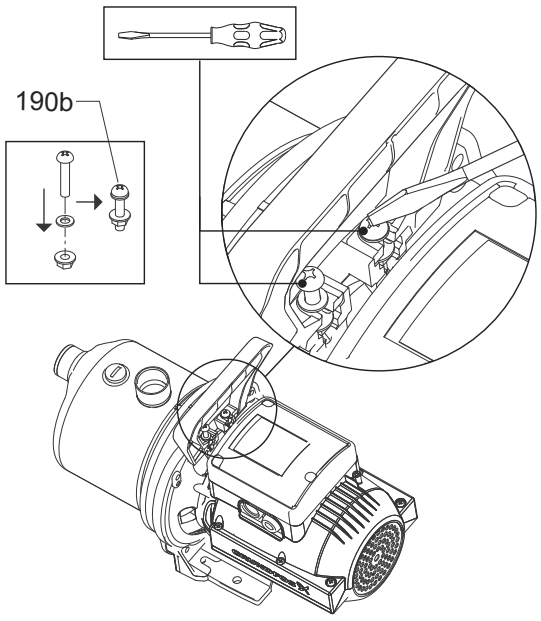

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Fig. 2 Fastening the screws on the handle

5. Dismantling the product

Position numbers of parts (numbers in brackets) refer to section *7.6 Exploded view*.

5.1 Before dismantling the product

- Disconnect the power supply to the motor.
- Remove the power cable in accordance with local regulations.
- Gradually loosen the valves to release the pressure in the pump.
- Remove the drain plug (31) to drain the pump.

5.2 Dismantling the pump housing

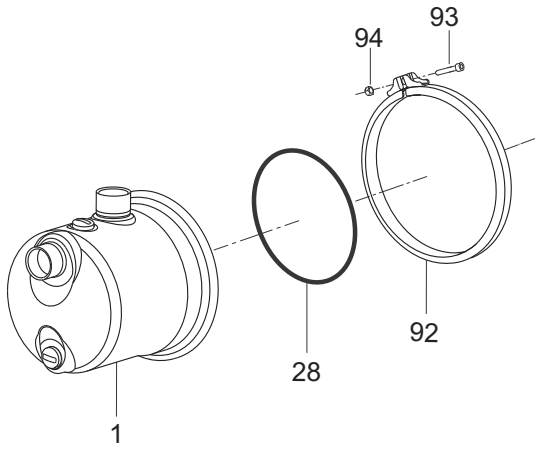

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Fig. 3 Dismantling the pump housing

1. Place the pump vertically with the inlet facing upwards.
2. Unscrew the clamp ring (92) by loosening screw (93) and nut (94).
3. Remove the clamp ring (92) from the recess. Use two flat screw drivers to lift the clamp ring from the recess.

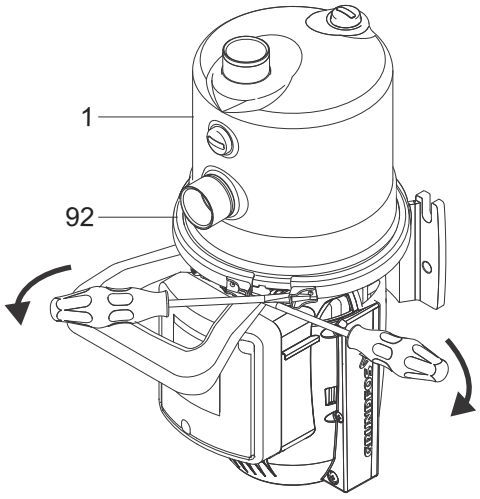

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Fig. 4 Removing the clamp ring

4. Remove the pump housing (1) including the hydraulic parts (20 and 21).
5. Remove the O-ring (28).

5.3 Replacing the plugs

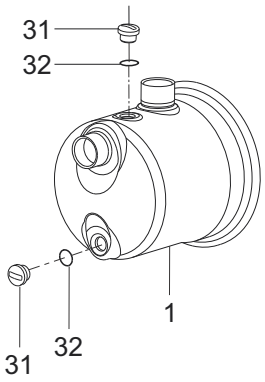

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Fig. 5 Replacing the plugs

1. Remove the two plugs (31) by turning each plug counterclockwise with a big flat screwdriver.
2. Lubricate the O-ring seats on the pump housing (1). See section *7.1 Lubricant*.
3. Place the new plugs (31) and O-rings (32). Fasten the plugs (31) by turning the plug clockwise with a big flat screwdriver.

5.4 Dismantling the hydraulic parts

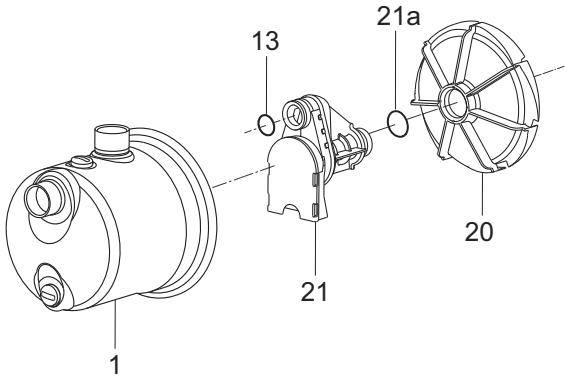

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Fig. 6 Hydraulic parts and pump housing

1. Place the pump housing (1) vertically with the inlet facing upwards.
2. Use a suitable tool which fits inside the inlet and gently press down on the venturi tube (21) to loosen the hydraulic parts (20, 21, 21a and 13).

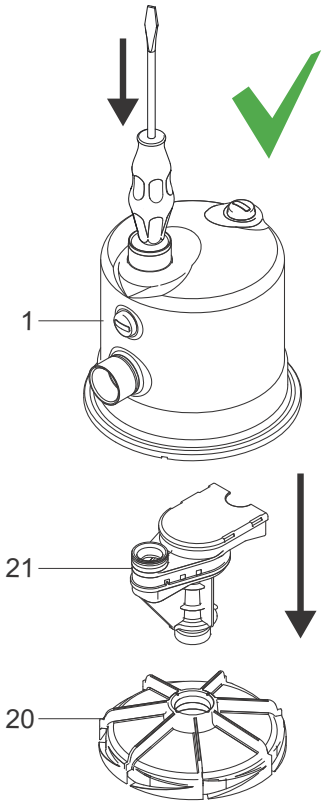

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Fig. 7 Removal of hydraulic parts

Do not try to remove the diffuser (20) by using screwdrivers or similar tools, as it might break.

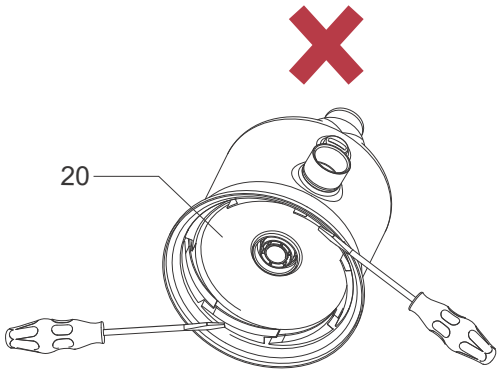

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Fig. 8 How not to remove the diffuser

5.5 Dismantling the motor shell

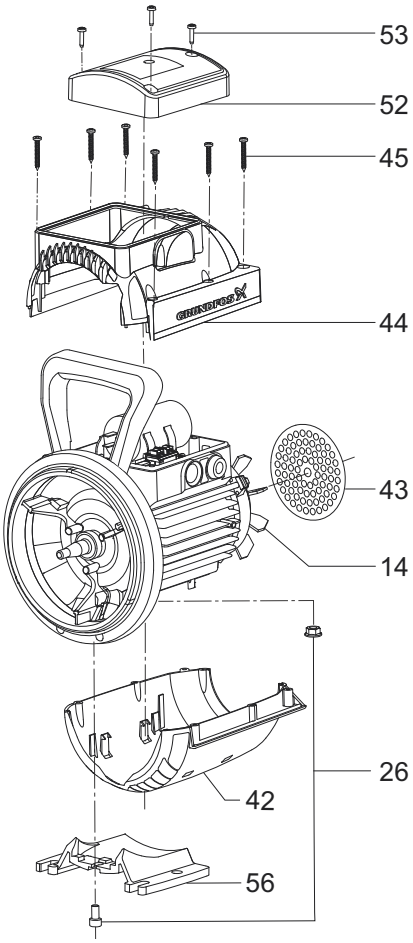

Fig. 9 Dismantling the motor shell

1. Remove the terminal box cover (52) by loosening the three screws (53).
2. Disconnect the power cable as required. Follow the instructions in section *5.6 Disconnecting the power cable from the terminal box*.
3. Remove the upper motor shell (44) by loosening the six screws (45).
4. Remove the shell grid (43).
5. Remove the foot (56) by loosening the screw and nut (26).
6. Remove the lower motor shell (42).

5.6 Disconnecting the power cable from the terminal box

If you are replacing the motor shell (42, 44), disconnect the power cable in the terminal box.

If you are replacing the impeller (19) or shaft seal (16, 16a), you do not need to disconnect the power cable in the terminal box.

1. Locate the power-supply terminal and cable clamp inside the terminal box.

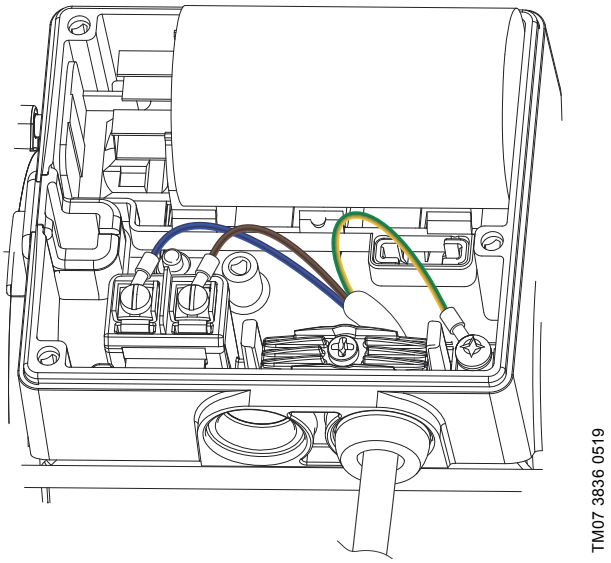

Fig. 10 Disconnecting the power cable

2. Loosen the three cable conductorsfrom the terminal box.
3. Loosen the screw that holds the cable clamp.
4. Pull the cable through the cable gland located on the side of the terminal box.

5.7 Removing the motor fan

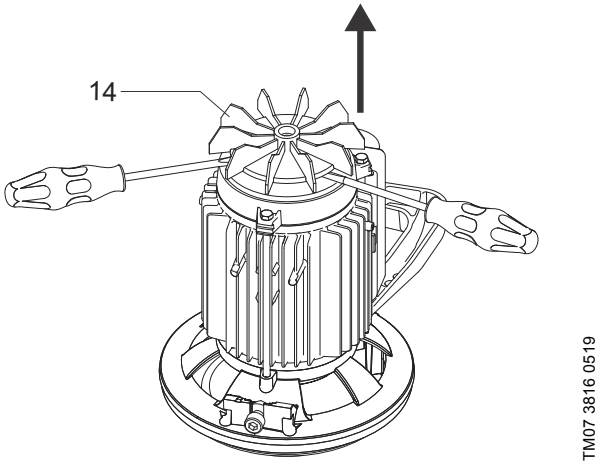

Fig. 11 Removing the motor fan

1. Remove the motor fan (14) from the shaft with two large flat screw drivers. Make sure to use sufficiently large screw drivers. Place the screw drivers between motor flange and fan at any two points.

5.8 Removing the impeller

1. Place the motor vertically with the impeller (19) facing upwards.
2. Clamp the motor shaft end in a vice with soft copper or aluminium jaw faces to protect the shaft end.

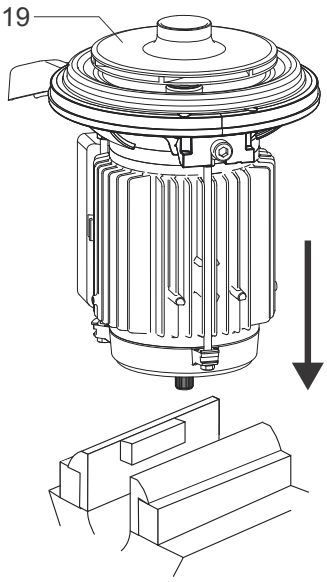

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Fig. 12 Placing the motor shaft in a vice

3. Turn the impeller (19) counterclockwise by hand and remove it.

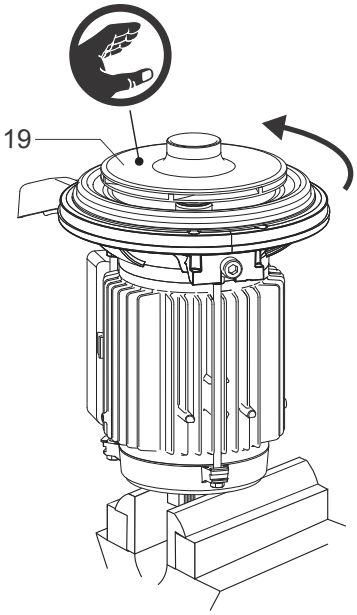

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Fig. 13 Removing the impeller

5.9 Removing the shaft seal

Do not touch the seal faces.

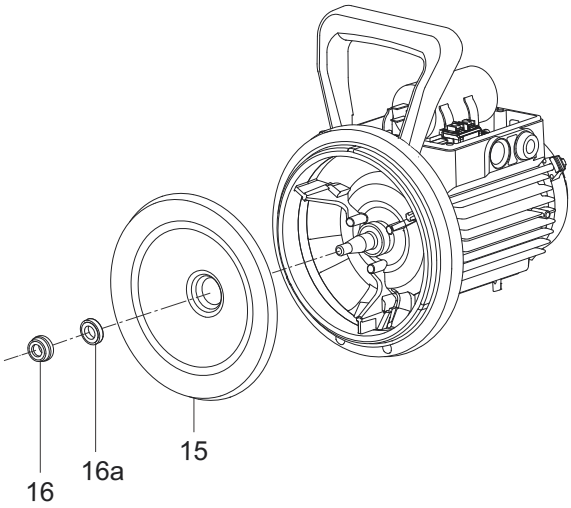

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Fig. 14 Shaft seal and seal disc

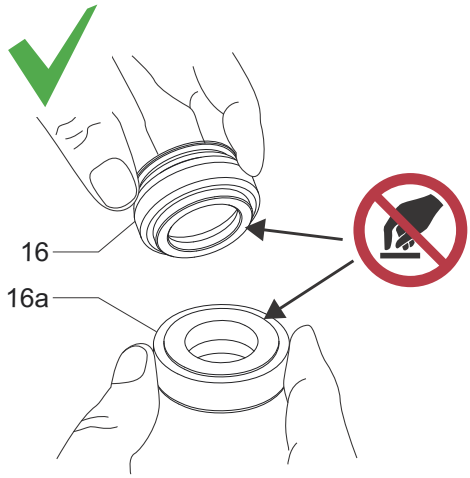

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Fig. 15 How to correctly hold the shaft seal

1. Remove the rotating part of the shaft seal (16) by inserting two flat screw drivers in the shaft seal spring. Lever the screw drivers against any two points at the edge of the seal disc.

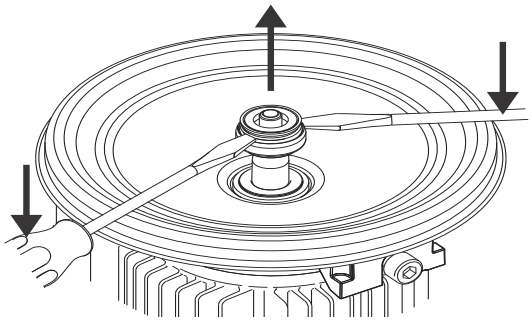

Fig. 16 Removing the rotating part of the shaft seal

2. Remove the seal disc (15) including the stationary part of the shaft seal (16a).
3. Remove the stationary shaft seal ring (16a) from the seal disc (15) by pushing gently with a finger from below. Hold the seal ring on the lower side and on the rubbery outer diameter. Do not touch the seal face.

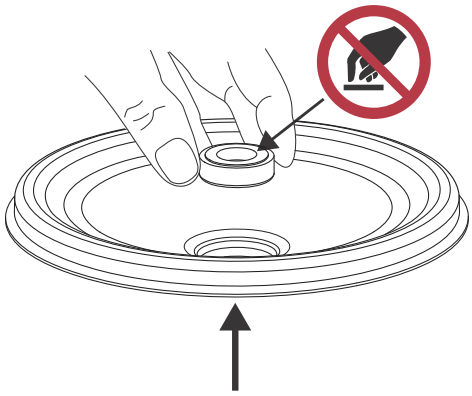

Fig. 17 Removing the stationary part of the shaft seal

6. Assembling the product

Position numbers of parts (numbers in brackets) refer to section *7.6 Exploded view*.

6.1 Before assembling the product

- Clean and check all parts.
- Replace defective parts.

6.2 Fitting the shaft seal

Do not touch the seal faces.

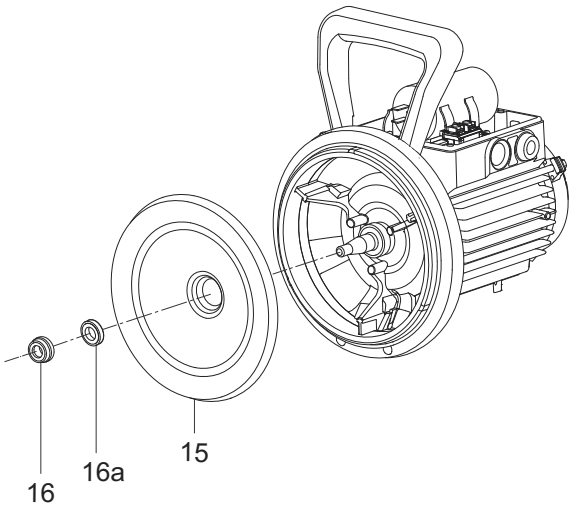

Fig. 18 Shaft seal and seal disc

Fig. 19 How to correctly hold the shaft seal

1. Clamp the motor shaft end in a vice with soft copper or aluminium jaw faces to protect the shaft end. See fig. 12.
2. Lubricate the seal disc opening. See section *7.1 Lubricant*.

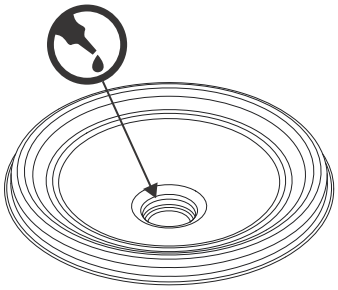

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Fig. 20 Lubricating the seal disc

3. Fit the stationary part of the shaft seal (16a) inside the seal disc (15).

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Fig. 21 Fitting the stationary part of the shaft seal

4. Lubricate the shaft. See section *7.1 Lubricant*.
5. Place the seal disc (15) with the stationary part of the shaft seal (16a) on the shaft and make sure the seal disc (15) centres on the motor flange.

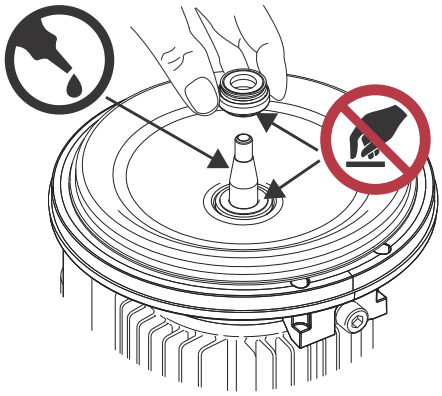

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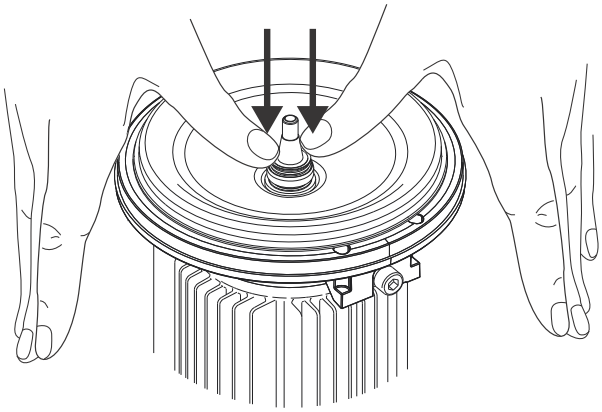
Fig. 22 Lubricating the shaft and placing the rotating part of the shaft seal.

6. Place the rotating part of the shaft seal (16) on the shaft and press it down with two fingers.

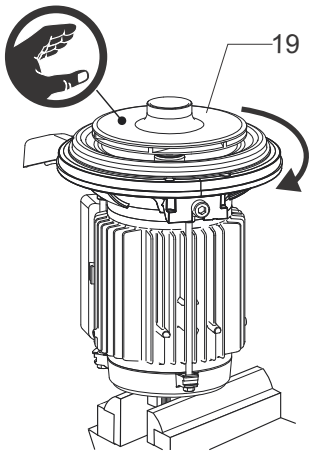


TM07 3826 0519

Fig. 23 Fitting the rotating part of the shaft seal

6.3 Fitting the impeller

1. Fit the impeller (19) on the shaft.
2. Spin the impeller (19) clockwise and tighten by hand until you feel the resistance of the mechanical stop.



TM07 3827 0519

Fig. 24 Fitting the impeller

6.4 Fitting the motor fan

1. Place the pump in a vertical position with the shaft end facing upwards. The surface must be smooth or soft to protect the impeller (15) facing downwards.
2. Fit the motor fan (14) on the shaft by hand.

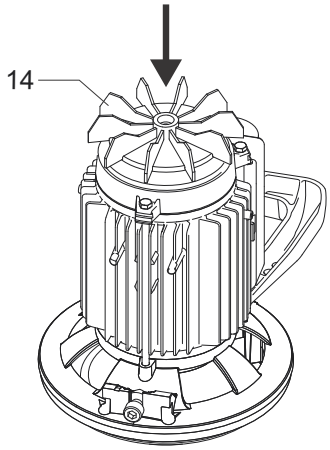


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Fig. 25 Fitting the motor fan

6.5 Fitting the motor shell

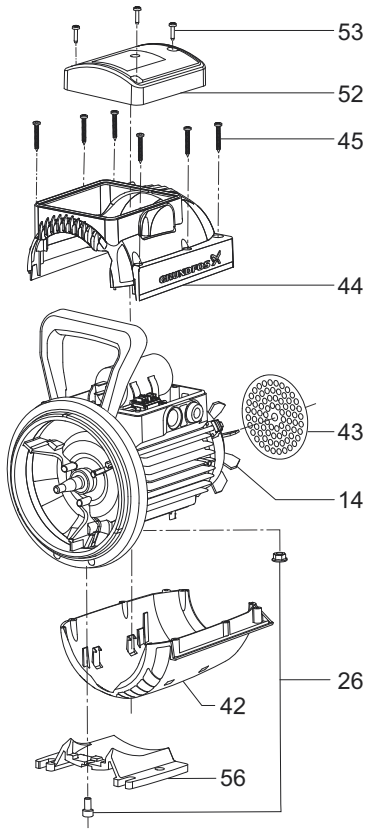

Fig. 26 Fitting the motor shell

1. Place the pump in a vertical position with the motor fan (14) facing upwards.

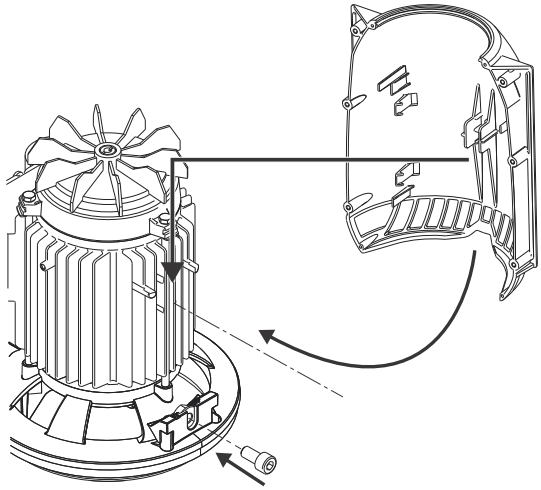

Fig. 27 Fitting the nut and the lower motor shell

2. Place the nut (26) in the groove on the motor flange.
3. Fit the lower motor shell (42). Align the guides on the inside of the lower motor shell (42) with the metal cooling ribs on the stator housing. Click the motor shell in place.
4. Mount the foot (56) and tighten the screw (26). Torque: 12 ± 1 Nm.
5. Fit the shell grid (43) in the groove in the motor shell (42).
6. Fit the upper motor shell (44).
7. Fasten the six screws (45) that hold the motor shells together. Torque: 1.5 ± 0.1 Nm.

Verification of assembly:

Turn the shaft by rotating the impeller (19) clockwise and check that the motor fan (14) does not touch the motor shell (42 and 44).

8. If the power cable is connected to the terminal box, fit the top lid on the terminal box and fasten the three screws. If not, follow the instructions below on how to connect the power cable.

6.6 Connecting the power cable in the terminal box

1. Locate the power-supply terminal and cable clamp inside the terminal box.

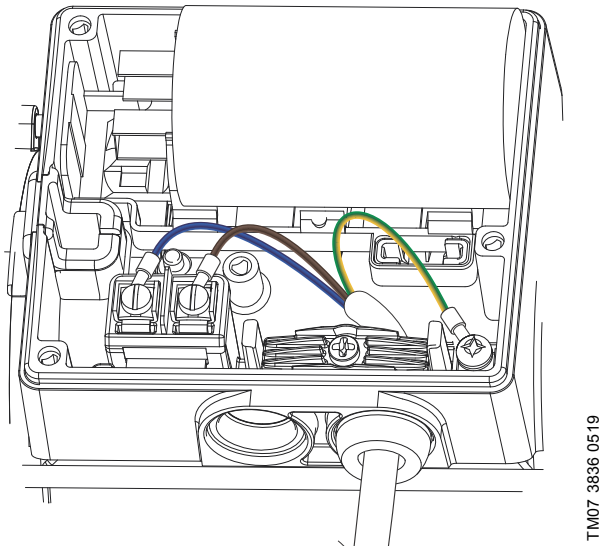

Fig. 28 Connecting the power cable to the terminal box

2. Loosen the cable clamp.
3. Push one end of the cable through the cable gland located on the side of the terminal box.
4. Connect the cable conductors to the power-supply terminal. See wiring diagram.

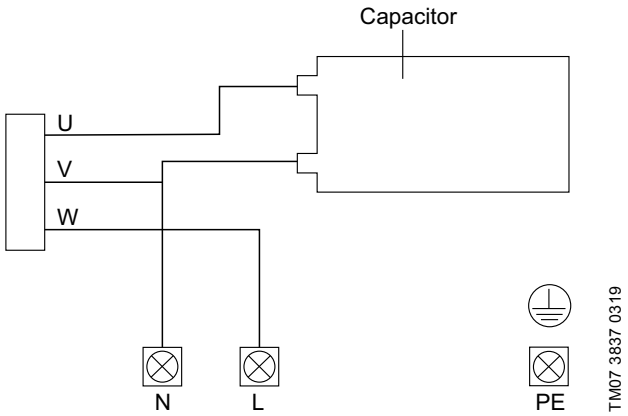

Fig. 29 Wiring diagram for the JP pump

5. Tighten the terminal screws. Torque: 2.2 ± 0.2 Nm.
6. Tighten the cable clamp screw. Torque: 1.5 ± 0.1 Nm. Make sure not to overtighten the cable clamp screw.
7. Fit the cover (52) onto the terminal box and fasten the three screws (53). Torque: 1.5 ± 0.1 Nm.

6.7 Fitting the hydraulic parts

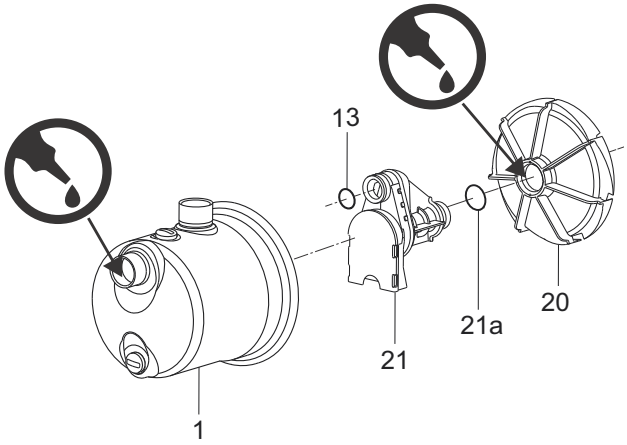

Fig. 30 Exploded view of hydraulic parts and pump housing

1. Lubricate the O-ring seat on the diffuser (20).See section *7.1 Lubricant*.
2. Fit the two O-rings (13, 21a) on the venturi tube (21).
3. Assemble the venturi tube (21) and diffuser (20) by hand.
4. Lubricate the O-ring seat inside the inlet on the pump housing (1). See section *7.1 Lubricant*.
5. Fit by hand the venturi tube (21) and diffuser (20) inside the pump housing (1).

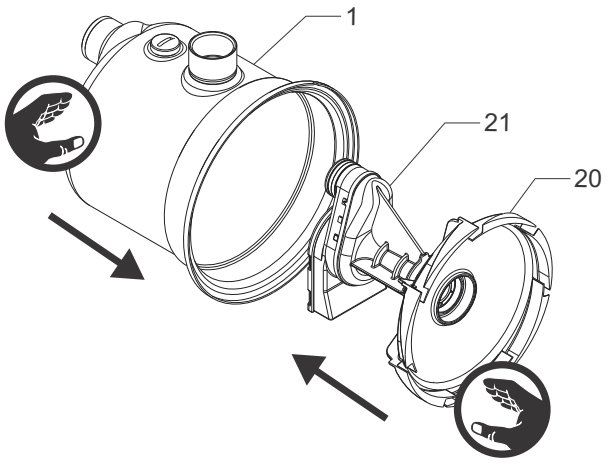

Fig. 31 Fitting the hydraulic parts in the pump housing

6.8 Fitting the pump housing

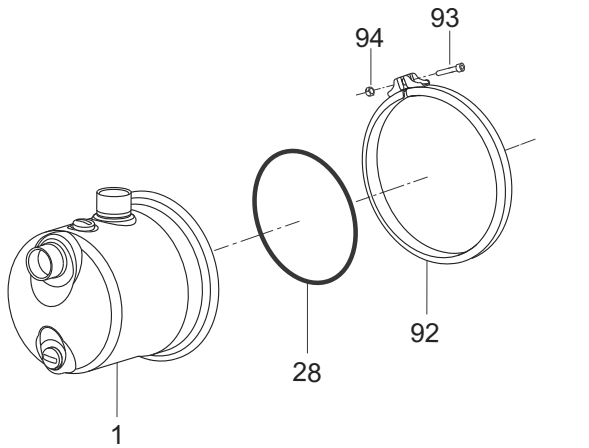

Fig. 32 Exploded view of the pump housing

1. Place the pump in a vertical position with the shell grid (43) facing downwards.
2. Fit the O-ring (28) on the seal disc (15). No lubrication is needed. Run a screw driver along the ring to remove any twisting.

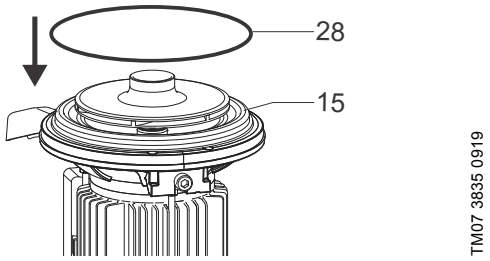

Fig. 33 Fitting the O-ring on the seal disc

3. Fit the pump housing (1) so that the cut-out on the edge of the pump housing is aligned with the marker on the edge of the motor flange.

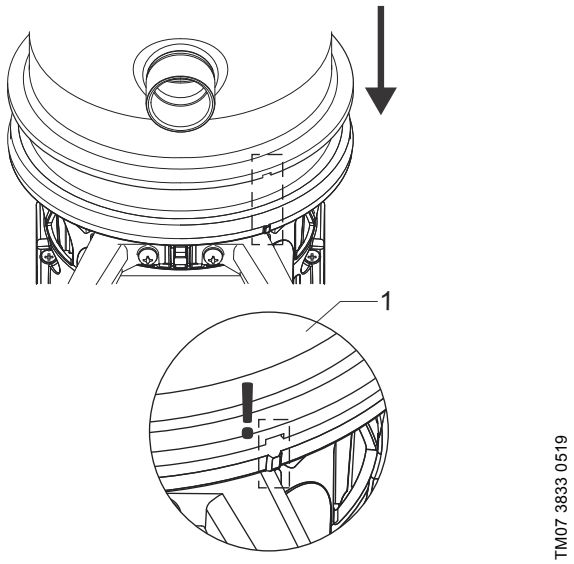

Fig. 34 Aligning the pump housing on the motor flange

4. Fit the clamp ring (92) on the recess. Use two flat screw drivers to widen the clamp.

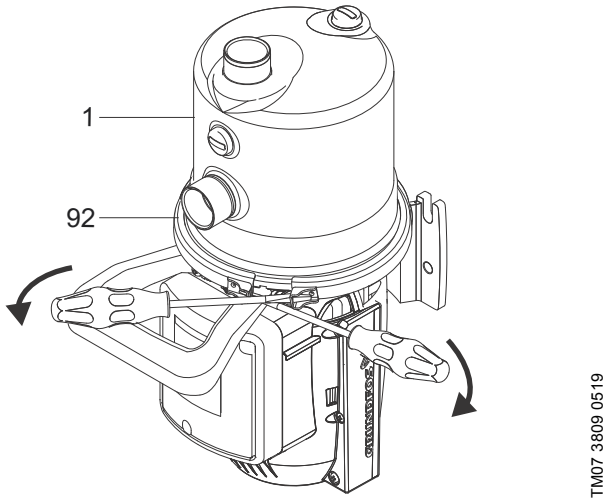

Fig. 35 Fitting the clamp ring

5. Place the screw (93) on one side and nut and washer (94) on the other side and tighten. Torque: 6.1 ± 0.1 Nm.

7. Additional information

7.1 Lubricant

We recommend using soapy water.

7.2 Torques

Pos.	Description	Torque [Nm]
26	Screw for mounting the foot (56)	12 ± 1
45	Six screws that hold the motor shells together (42 and 44)	1.5 ± 0.1
-	Screws for wiring in the terminal box	2.2 ± 0.2
-	Cable clamp screw in the terminal box	1.5 ± 0.1
53	Three screws for mounting the cover (52) onto the terminal box	1.5 ± 0.1
93	Screw for mounting the clamp ring (92)	6.1 ± 0.1
94	Nut for mounting the clamp ring (92)	6.1 ± 0.1

7.3 Nameplate

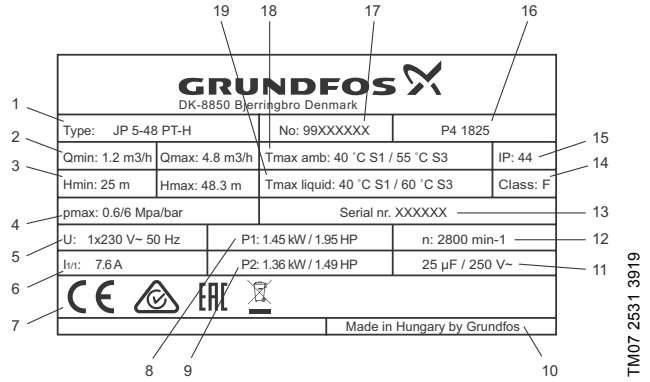

Fig. 36 Nameplate example for JP

Pos.	Description
1	Type
2	Min. flow rate and max. flow rate
3	Min. head and max. head
4	Max. pressure
5	Supply voltage and frequency
6	Full-load current
7	Approvals
8	Power consumption
9	Rated power
10	Country of origin
11	Capacitor data
12	Speed of rotation
13	Serial number
14	Insulation class
15	Enclosure class
16	Factory and production code, year and week
17	Product number
18	Max. ambient temperature
19	Max. liquid temperature

7.4 Type key

Example:

JP . 3- . 42 . PT- . V . 1x230 V . 50 Hz . 2m . SCHUKO . HU

Code	Description
JP	Jet Pump
3-	Max. flow rate [m3/h]
42	Max. head [m]
PT-	Booster type, if applicable: • PT: Pressure Tank • PM: Pressure Manager • PS: Pressure Switch
V	Tank type, if applicable: • V: Vertical • H: Horizontal
1x230 V	Voltage [V]
50 Hz	Frequency [Hz]
2m	Cable length [m]
SCHUKO	Plug type
HU	Country of origin

7.5 Fault finding the product

Fault finding procedures are described in the installation and operating instructions. Use the QR code or link below:

http://net.grundfos.com/qr/i/99520338

7.6 Exploded view

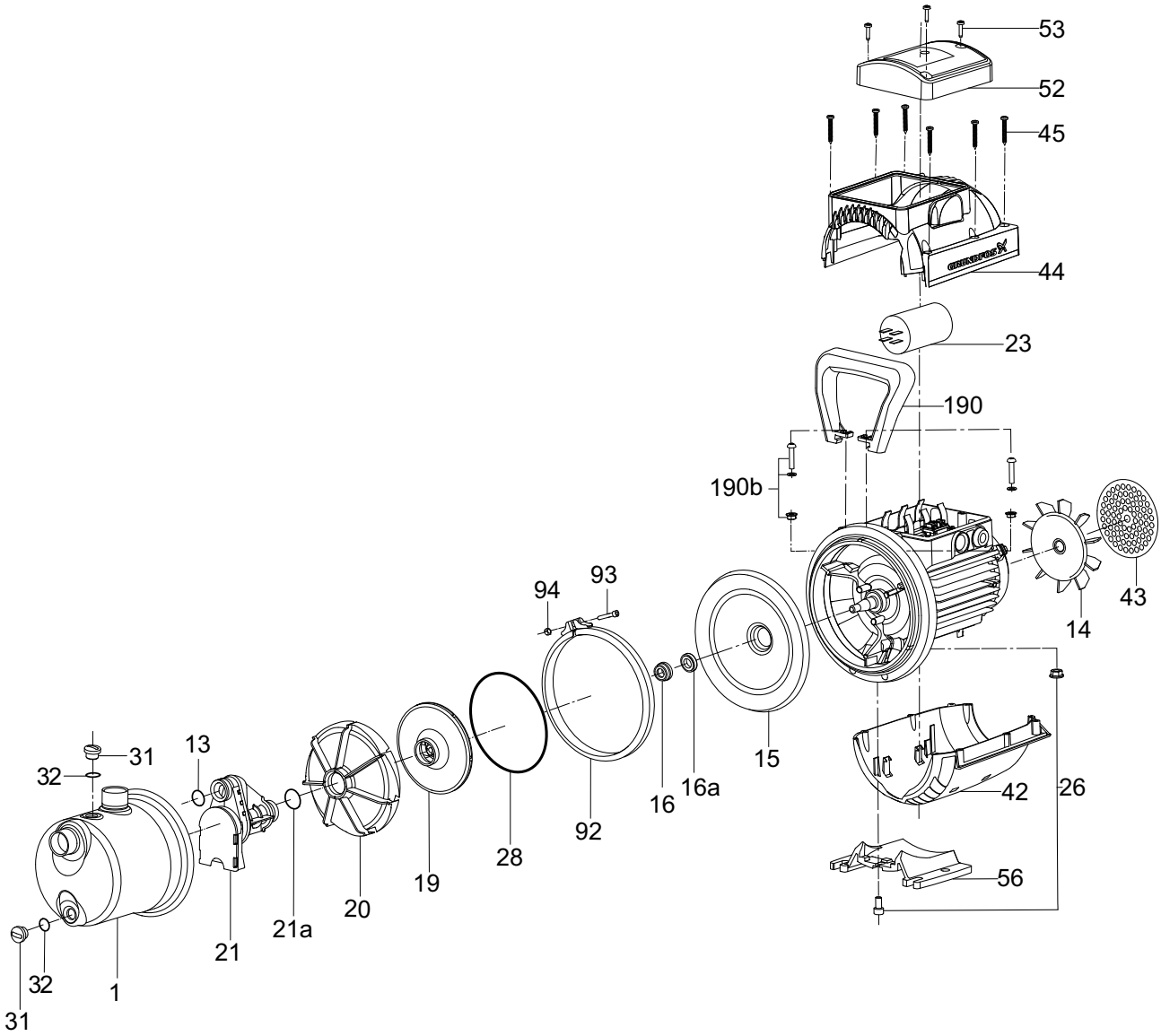

Fig. 37 Exploded view of JP pump

Pos.	Description
1	Pump housing
13	O-ring
14	Motor fan
15	Seal disc
16	Shaft seal, rotary part
16a	Shaft seal, stationary part
19	Impeller
20	Diffuser
21	Venturi tube
21a	O-ring
23	Capacitor
26	Screw and nut
28	O-ring
31	Plug

Pos.	Description
32	O-ring
42	Lower motor shell
43	Shell grid
44	Upper motor shell
45	Screws
52	Terminal box cover
53	Screws
56	Foot
92	Clamp ring
93	Screw
94	Nut
190	Handle
190b	Screw, washer and nut

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