

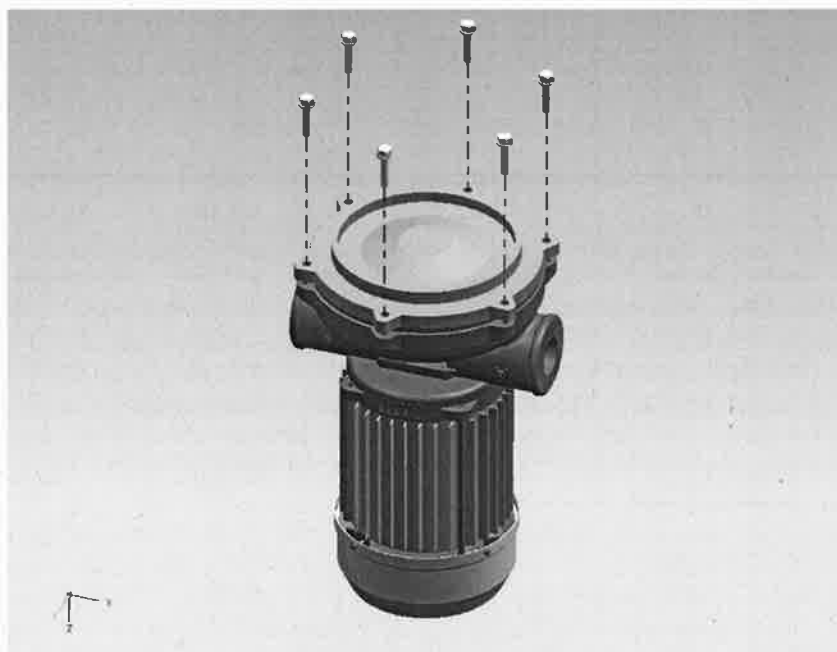
## MAINTENANCE

### Warnings

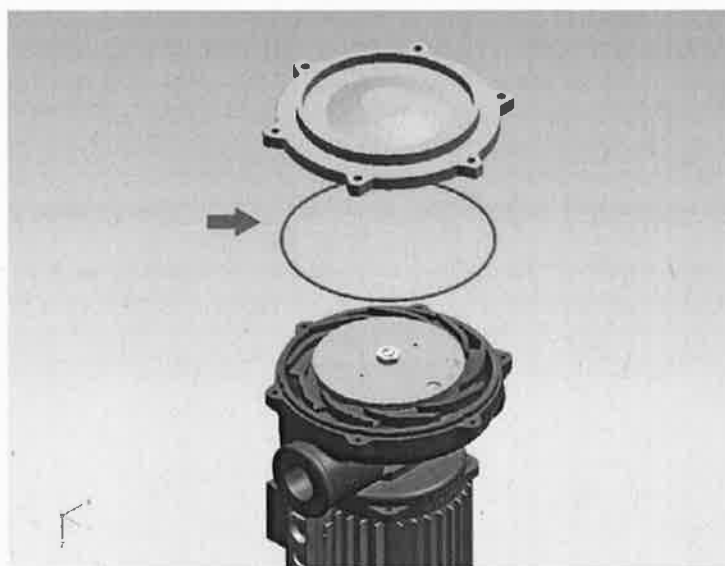
All maintenance work must be carried out by qualified personnel.  
Each operation should be performed in the absence of electrical voltage.

### Impeller replacement

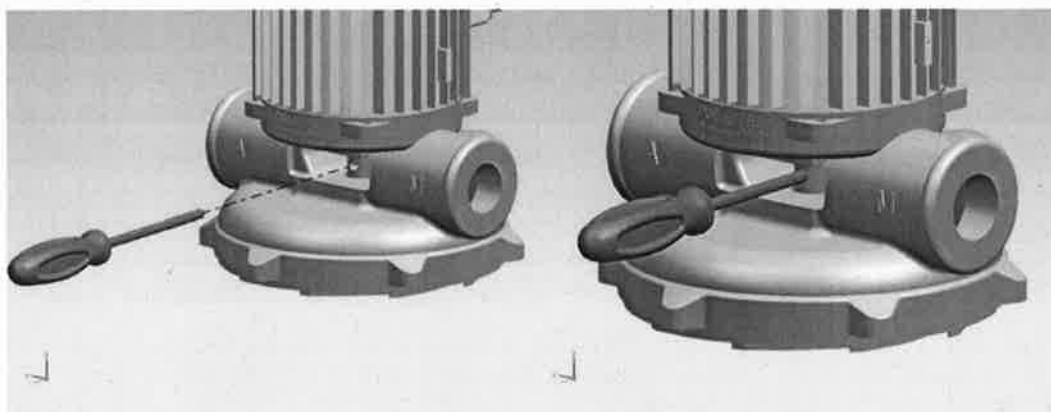
- 1) Unscrew the 6 screws M6 that are holding the bottom cover with a 10 wrench



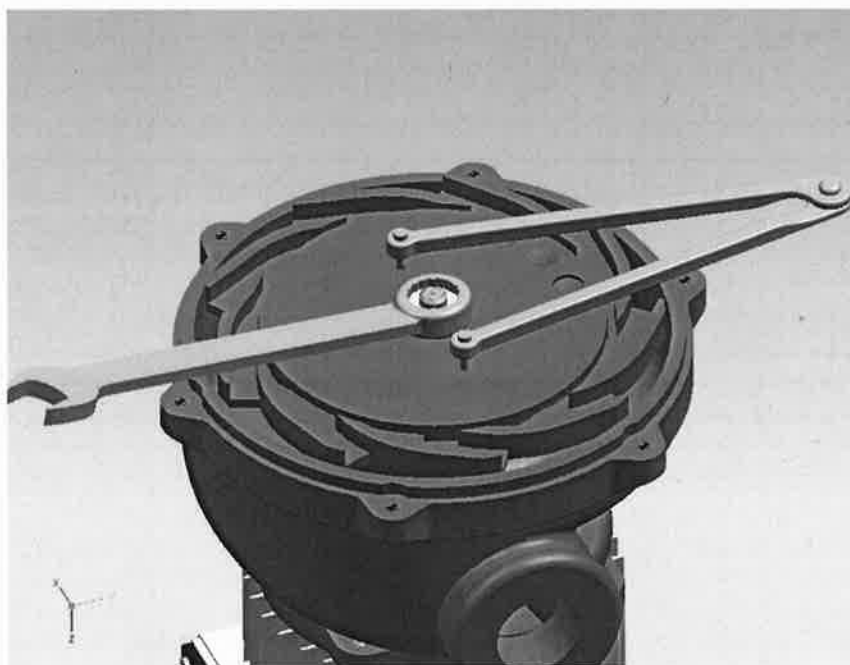
- 2) Remove the cover, being careful about the O-Ring gasket.

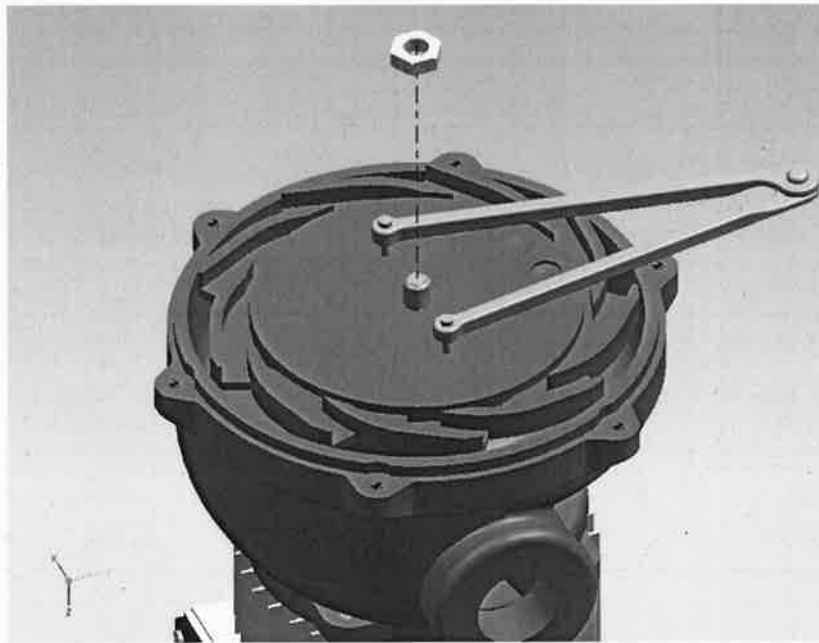


- 3) Insert the tip of a screwdriver into the motor shaft hole, to block it from rotating.

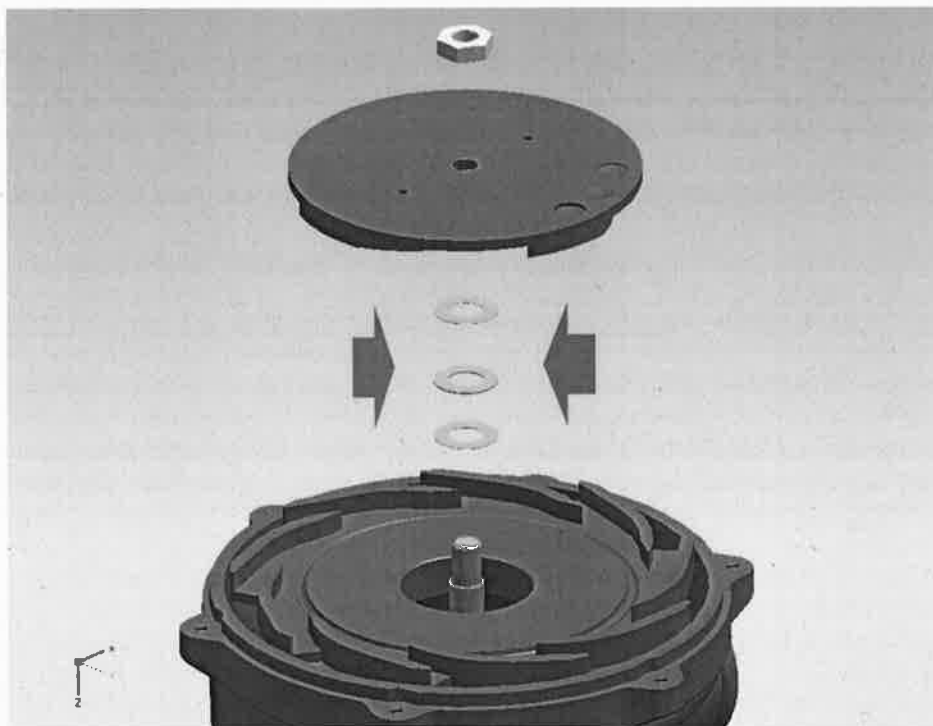


- 4) Unscrew the nut, using a spanner and suitable tools, as shown in the figures below.





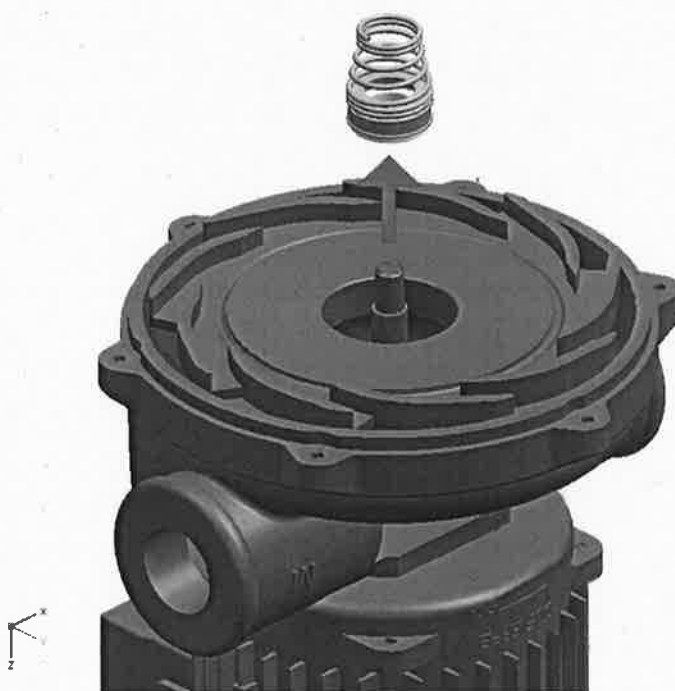
5) Unscrew the impeller from the motor shaft, being careful with wearing rings



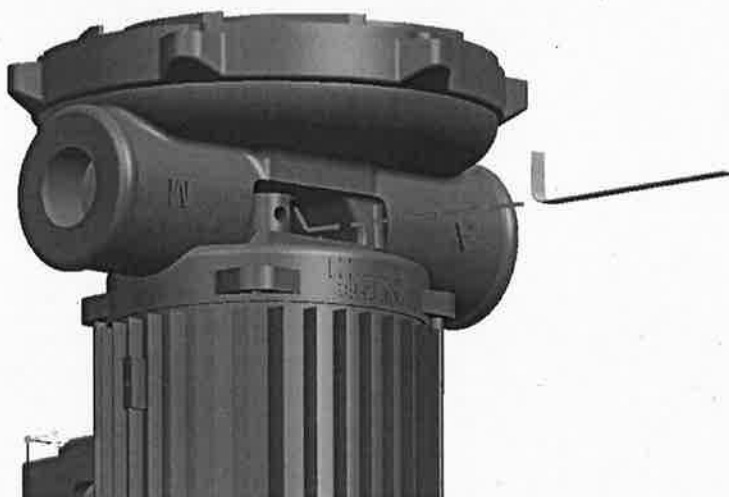
6) Reinstall all components.

## Replacing the mechanical seal

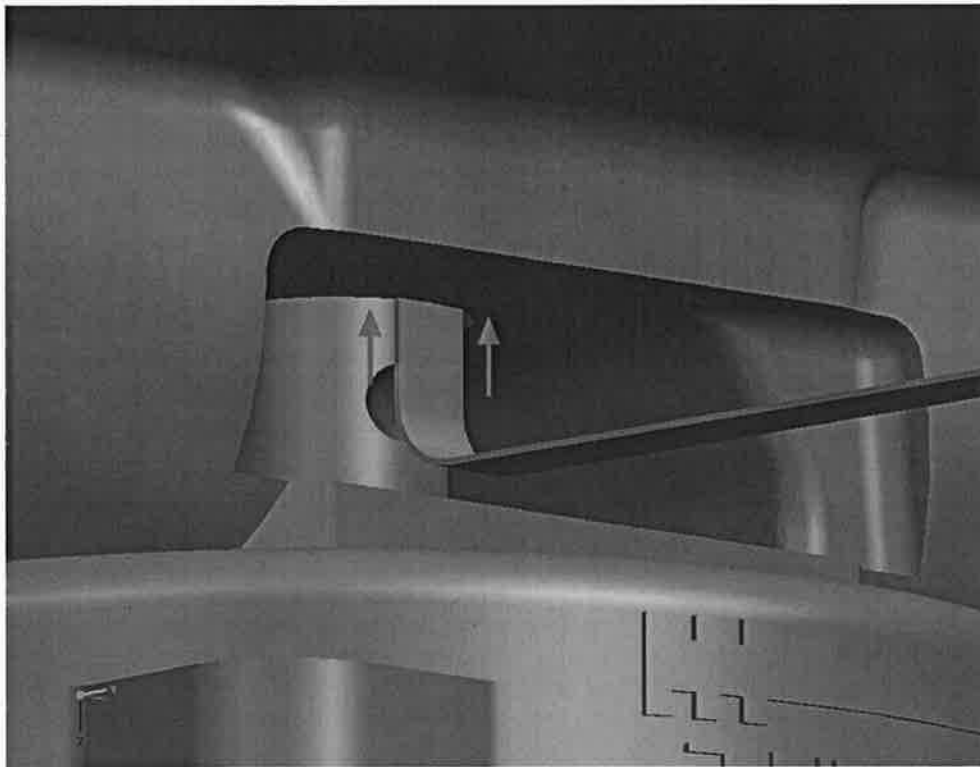
- 1) Remove the bottom cover, the impeller and thick washers as indicated in the previous paragraph.
- 2) With a pair of pliers, pull upward the movable part.



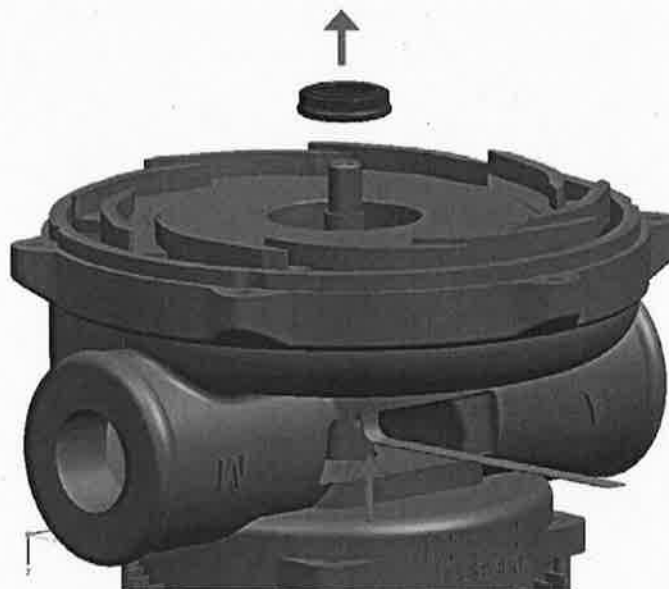
- 3) To disassemble the fixed part of the mechanical seal, use a tool similar to the one in the figure.



4) Insert the tool between the shaft and the pump body



5) Push the fixed part of the mechanical seal up.

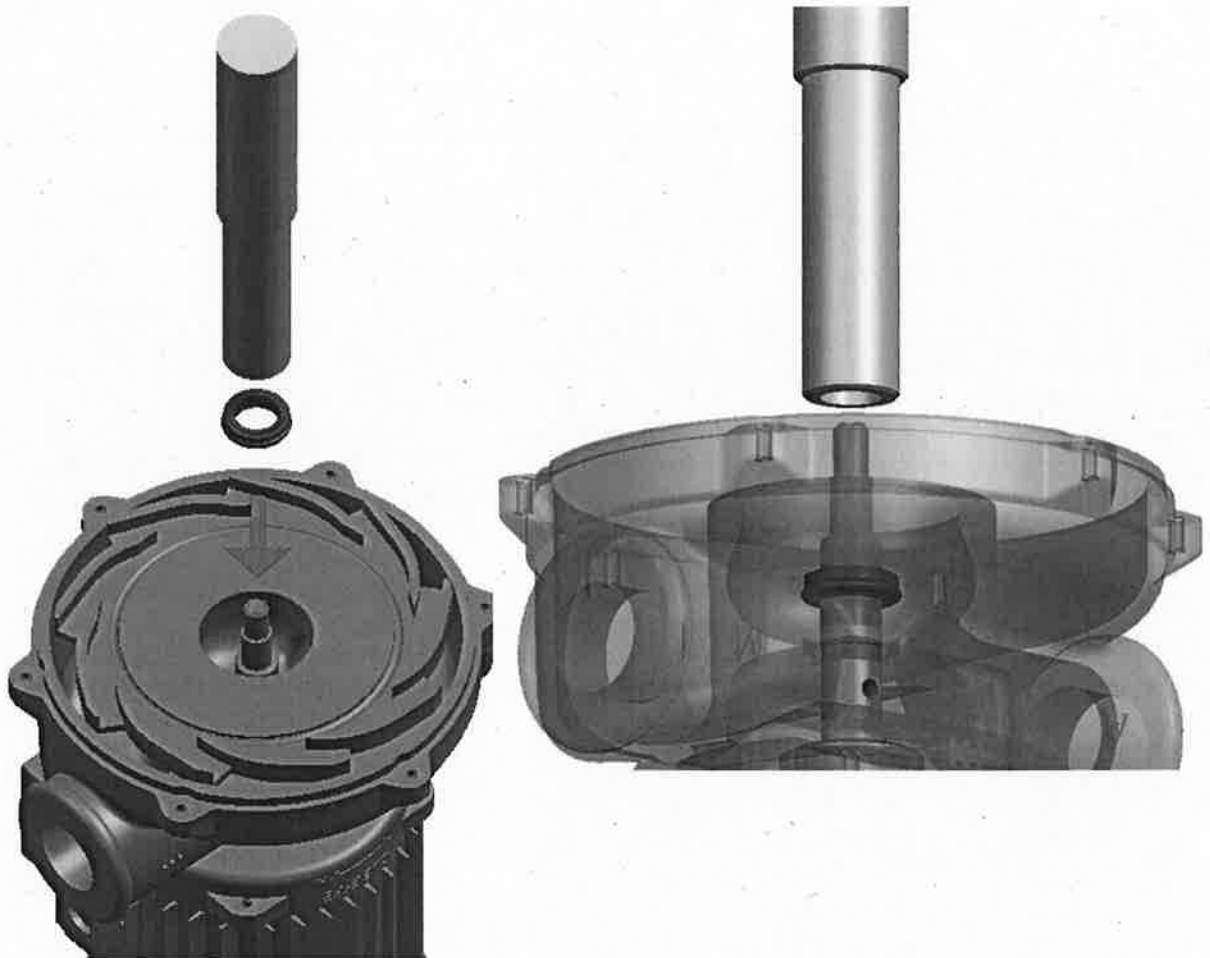


6) Assemble of the mechanical seal.

### WARNINGS

- The seat of the mechanical seal must be perfectly clean.
- Do not use oils to clean the seat.
- Be careful: Do not place your hands and do not soil the face and counter face of the mechanical seal.
- Before mounting the seal in its seat, immerse the mechanical seal in a container full of alcohol.

6A) Assemble the fixed part of the mechanical seal, using a buffer as shown in the figure.



6B) Assemble the movable part of the mechanical seal using a pair of pliers.