

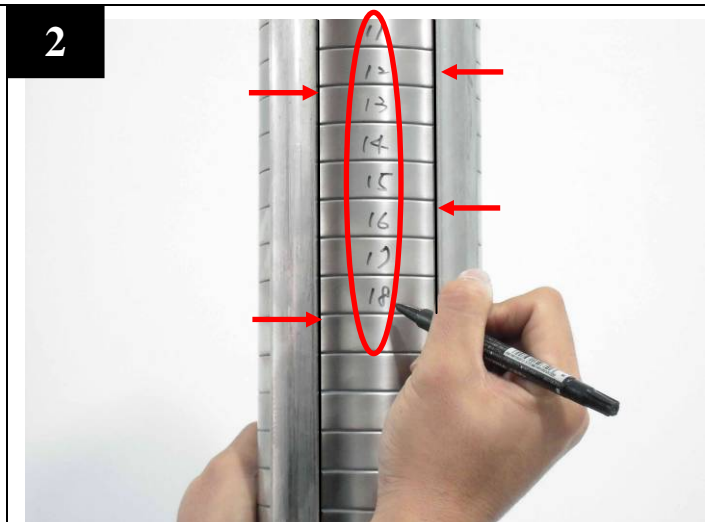
Replacing TPRK Series mechanical seal

1. Removing mech seal.

WI-D3-S-B004E-1



Place the pump on work bench with motor down.



Mark the number of the stacked stages and draw a line along with straps (optional).



Draw the line all the way down to pump casing (optional).



Tape the stacked stages.



Tape the stacked stages to prevent them from losing apart.



Remove the coupling cover.

7



Loose the Hex. nuts (#17 metric wrench) on the coupling

8



Remove the coupling (#6 metric Allen wrench)

9



Loose the screws (#6 Allen wrench) on the motor.

10



Separate the pump and motor.

11



Place the pump end on work bench and remove the hex nuts.

12



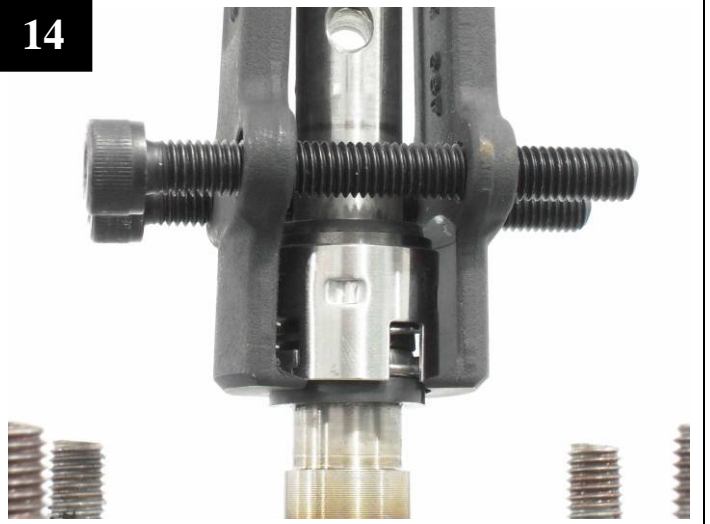
Remove the pump casing.

13



Loose the rotary part of the mech.seal.

14



Clam the rotary parts tightly with the tooling.

15



Remove the rotary parts of the mech.seal.

16



Remove the stationary parts of the mech seal.

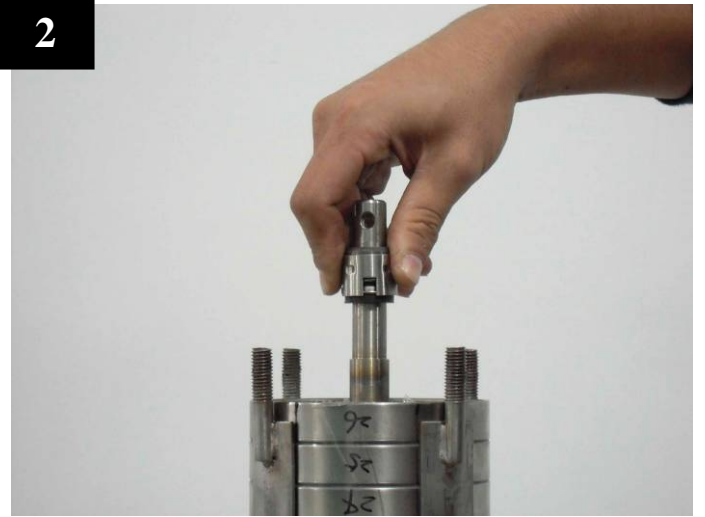
2.Assembling mech seal.

1



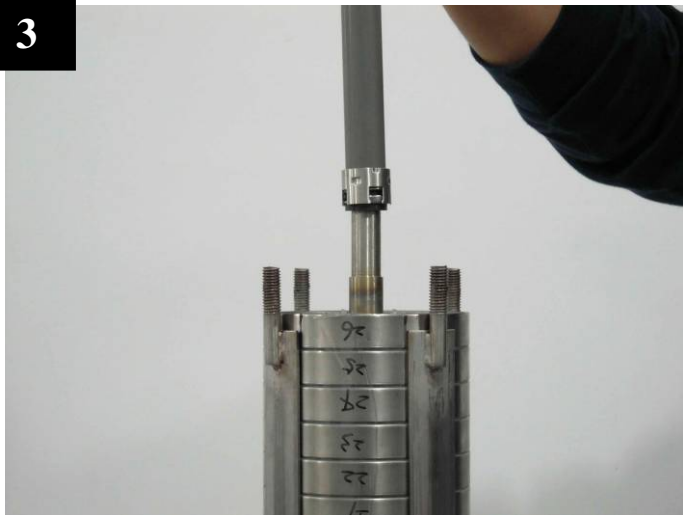
Separate the rotary face from the new mech seal.

2



Place the new rotary parts on shaft.

3



Press in the rotary parts with tooling.

4



Place the rotary face in position

5

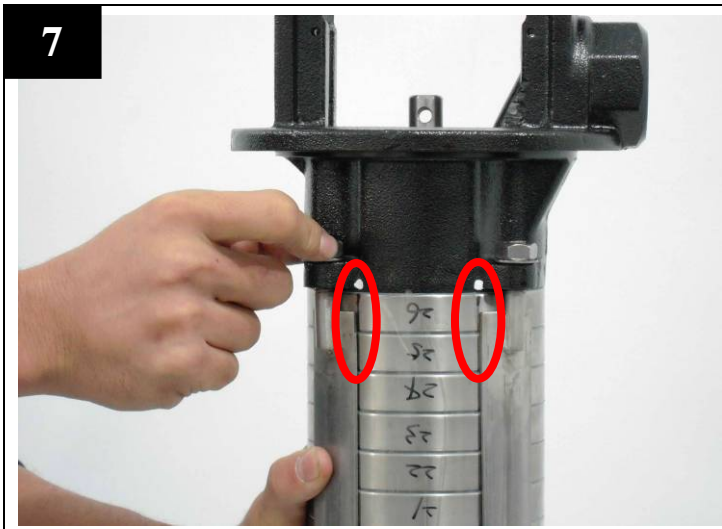


Clean the surface and place the stationary part of mech seal in position.

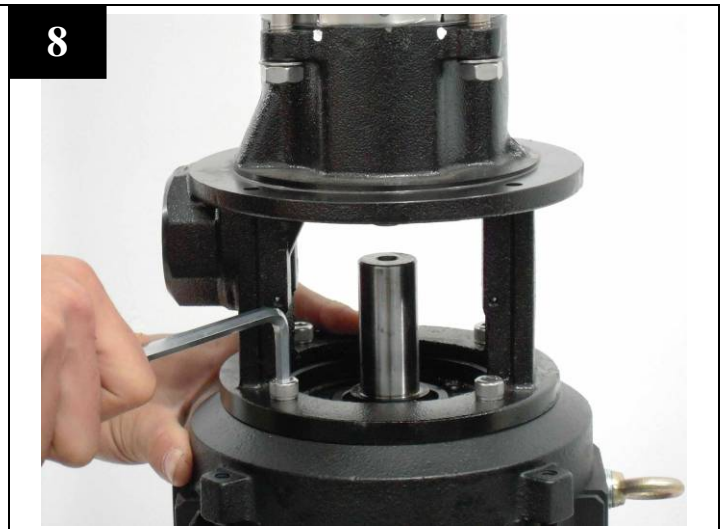
6



Press in the stationary part.



Install the pump casing on the stacked stages.



Flip over the pump end and install it on the motor. Make sure the pump discharge is on the opposite side of motor terminal box.
※torque 180 kgf · cm



Remove the strainer.



Tighten up the screws on the motor.
※torque 180 kgf · cm

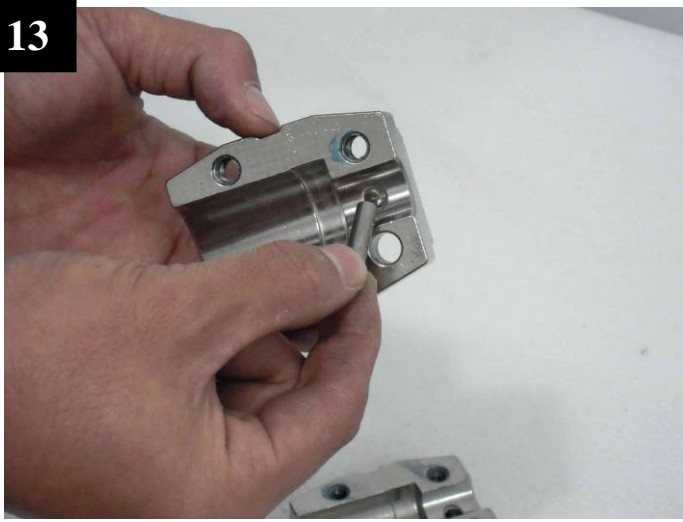


Rotate the shaft and make sure no rubbing noise inside. Otherwise, loose the screws and repeat the above process until the rotation is smooth.



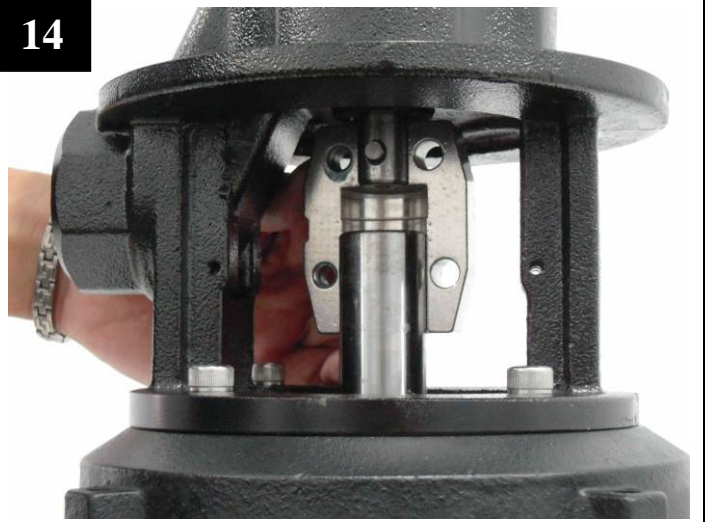
Tighten up the strainer.
※torque 30 kgf · cm

13



Insert the pin into half coupling.

14



Install the coupling.

15



Place the screws in but do not tighten up at this stage.

16



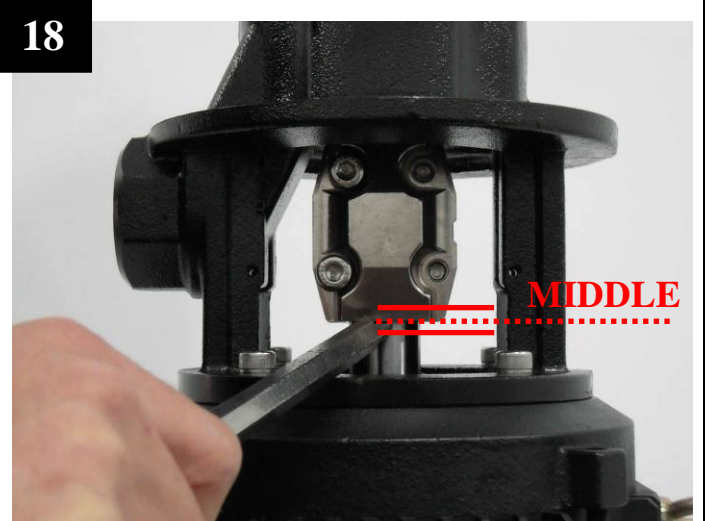
Push the coupling to the top position with the tool.

17



Move down the coupling to the bottom position with the tool.

18



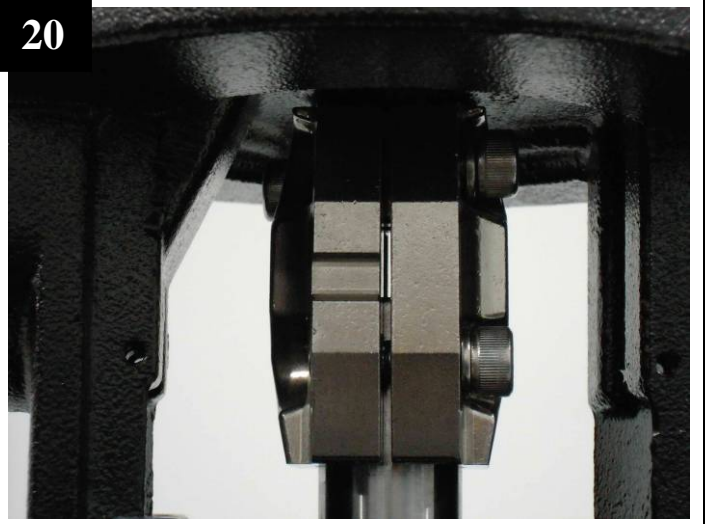
Set the coupling to the middle position (between top and bottom position.)

19



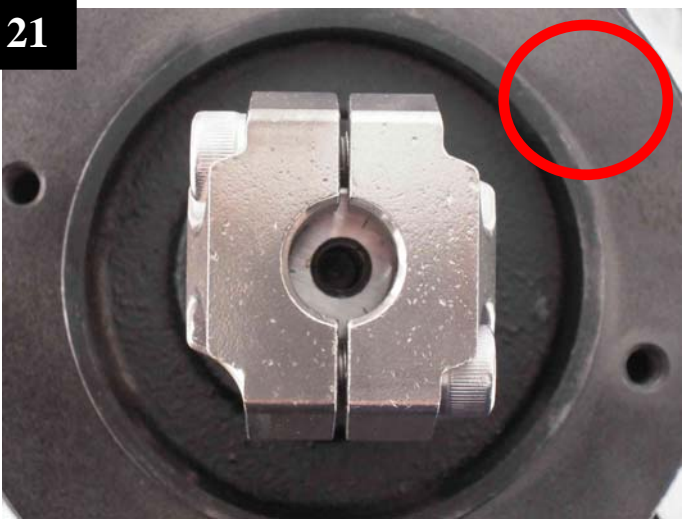
Tighten up the screws on coupling.
 ※torque 180 kgf · cm

20



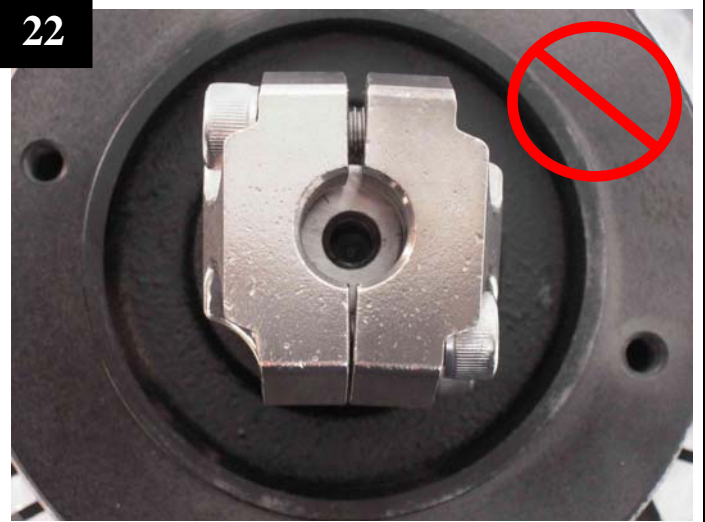
The clearance between the two half couplings must be even.

21



Picture above is the correct clearance.

22



Picture above is the wrong clearance.

23



Install the coupling cover.

24



Remove the tape and marks.