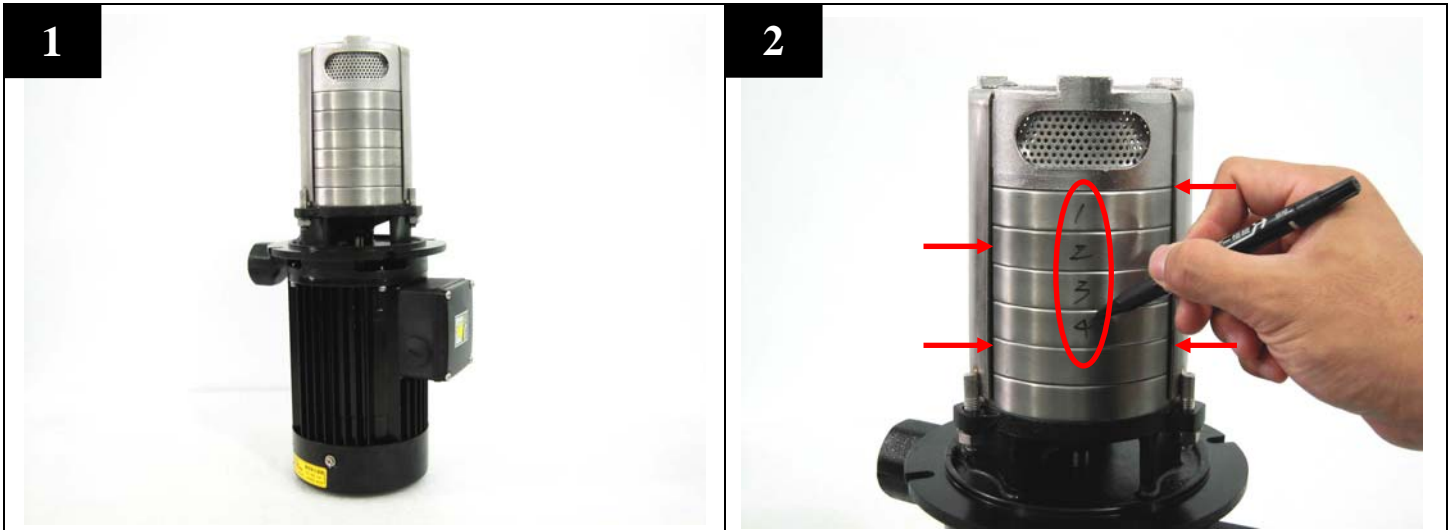


# Replacing TPHK2-4T Series Mechanical Seal

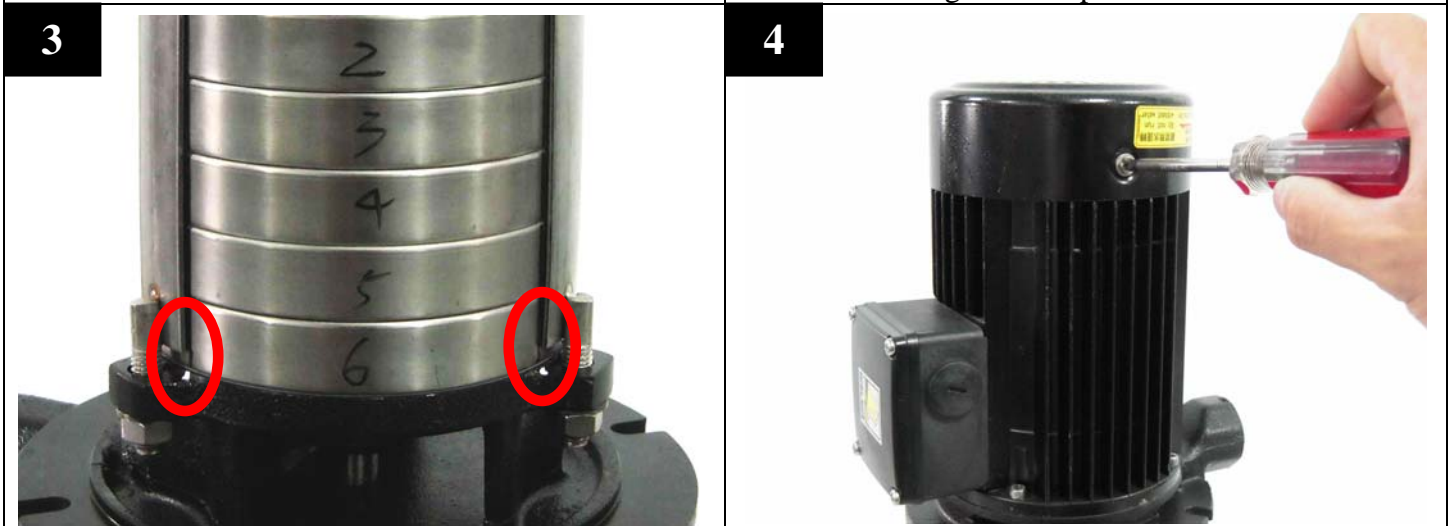
## 1. Removing mech seal.

WI-D3-S-B017E-1



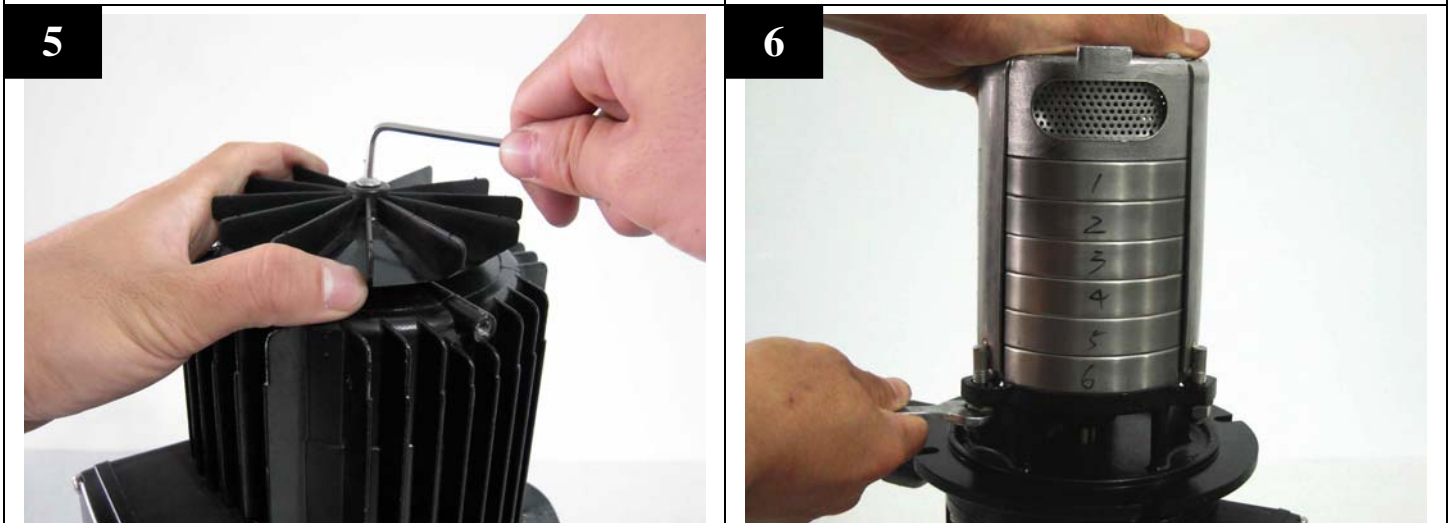
Place the pump on work bench with motor down.

Mark the number of the intermediate chambers and draw a line along with straps.



Draw the line all the way down to pump casing.

Loose the screws and remove the motor fan cover.



Using Allen wrench to remove the motor fan.

Loose the nuts on straps.  
Remove the 3 straps.

7



Remove the suction interconnector.

8



Using wrench to loose the lock nut.

9



Remove all impellers, sleeves and intermediate chambers.

10



place all impellers, sleeves and intermediate chambers in order.

11



Remove the cap.

12



Remove the spring.

13



Remove the retainer.

14



Remove the washer.

15



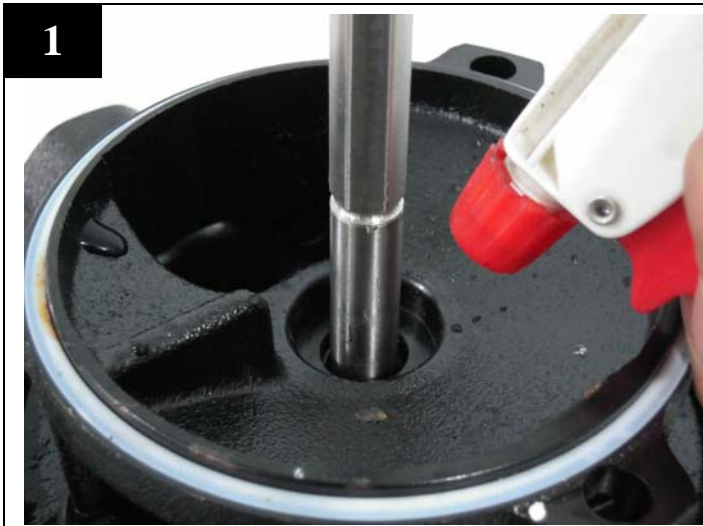
Remove the rotary parts of mechanical seal.

16



Remove the stationary part.

## 2. Assembling mech seal.



1 Spray water on the shaft as lubrication.



2 Place the stationary part in position and press in.



3 Before press in rotary parts, insert the sleeve through the hex shaft aligning the slots on sleeve to tabs on washer.



4 Remove the cap and press in rotary parts.



5 Place the retainer.



6 Place the spring onto rotary parts.



Place the cap onto rotary parts.



Place a new gasket on pump casing.



Place back all impellers, sleeves and intermediate chambers in order.



Place the lock nut.



Using wrench to tighten up the lock nut.  
※torque 140 kgf · cm



Place the suction interconnector.

13



Install the 3 straps.

14



Tighten up the nuts on straps.  
※Torque 150-170 kgf · cm

15



Remove the filter.

16



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

17



Install the filter.

18



Remove all marks.

19



Install the motor fan.  
※Torque 10 kgf · cm

14



Install the motor fan cover.  
※Torque 25 kgf · cm