



Changing APP1.5-3.5 Shaft Seal

Note! It is essential that the Pump is serviced in conditions of absolute cleanliness.

1. Unscrew the 4 mounting screws and remove the seal SAE flange. (Picture 2 and 3)
Do not unscrew the 2 recessed screws at this time. (Picture 1)
2. Wet the shaft and shaft seal with clean (filtered) soap-water. Gently lever the shaft seal assembly free with the aid of 2 screwdrivers.(Picture 4)
3. Ensure that no dirt enters the pump. **If loose particles are observed on or around the shaft, the pump should be dismantled and thoroughly cleaned with clean (filtered) water.**
4. Fit the hollow bush (torpedo) to the shaft.(Picture 5)
5. **Wet the torpedo and replacement shaft seal with soap. Do not use silicone grease.**
6. Slide the shaft seal over the torpedo with the carbon seal face pointing upwards. **Be careful not to damage the carbon seal face on the shaft seal.** (Picture 6 and 13)
7. Using the plastic assembly tool provided, **large diameter first**, press the seal home against the shoulder, by hand. (Picture 7 and 8)
8. Remove the ceramic ring from the flange. (Picture 9 and 10)
9. Push the new ceramic ring into the flange using the plastic tool provided. (Picture 11), make sure the face with the rubber seal is positioned against the sholder in the flange (picture 13). **Wet the parts with clean (filtered) soap-water before assembly.**
10. Position the O-ring on the seal SAE flange.(Picture 9 and 13)
11. **To prevent cold welding, lubricate threads on the 4 screws with grease** and screw them into the pump and tighten by hand. Use Molykote® D paste from Dow Corning or Klüber UH1 84-201 from Klüber lubrication.
12. Tighten the 4 flange screws to a torque of 12 ± 1 Nm. (Picture 12)

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