INSTRUCTION

Shaft Seal
APP0.6-1.0

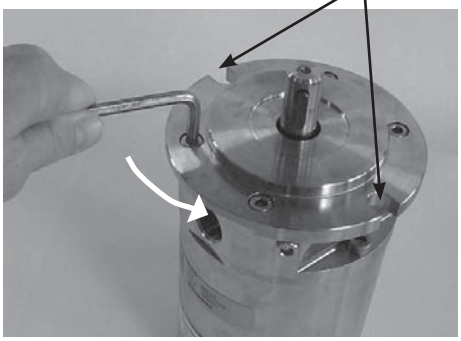
180R9085

This document covers the instructions for changing the shaft seal on the axial piston pumps APP0.6-1.0.

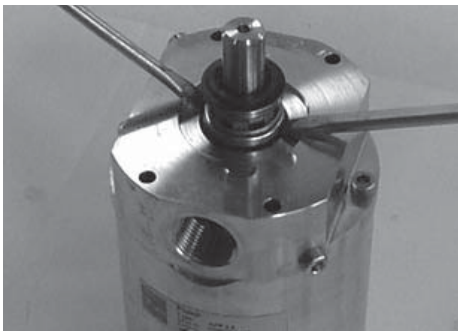
Note: It is essential that the pump is serviced in conditions of absolute cleanliness.

Tools needed/provided:

1. Unscrew the 4 mounting screws and remove the seal SAE flange. **Do not yet unscrew the 2 lower screws.**



2. Wet the shaft and shaft seal with clean (filtered) soap-water. Gently lever the shaft seal assembly free using 2 screwdrivers.



3. Ensure that no dirt has entered into the pump. **IMPORTANT: If loose particles are observed, the pump must be dismantled and thoroughly cleaned with clean (filtered) water.**

4. Fit the hollow bush (torpedo) onto the shaft.

5. Thoroughly wet the torpedo, shaft and replacement shaft seal with plenty of soap. **Do not use silicone grease.**

6. Slide the new shaft seal over the torpedo with the carbon seal face pointing upwards (see also drawing on last page). **IMPORTANT: Be careful not to damage the carbon seal face on the shaft seal**.

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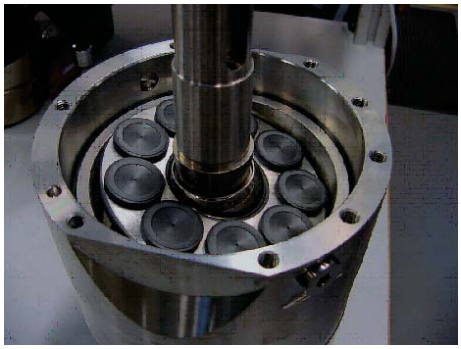
7. Scrap the old spacer (if black) and place the new white spacer on top of the retaining ball.



8. Use the plastic assembly tool provided, **large diameter pointing downwards**, to press the seal home against the shoulder of the spacer.

9. Remove the old ceramic ring.

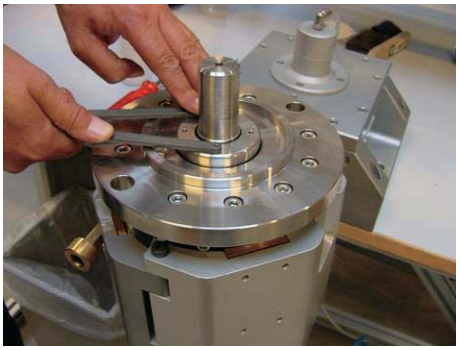
10. Wet the new ceramic ring with clean (filtered) soap-water and fit it on the flange using the plastic tool provided. Ensure that the rubber seal is positioned against the shoulder of the flange.

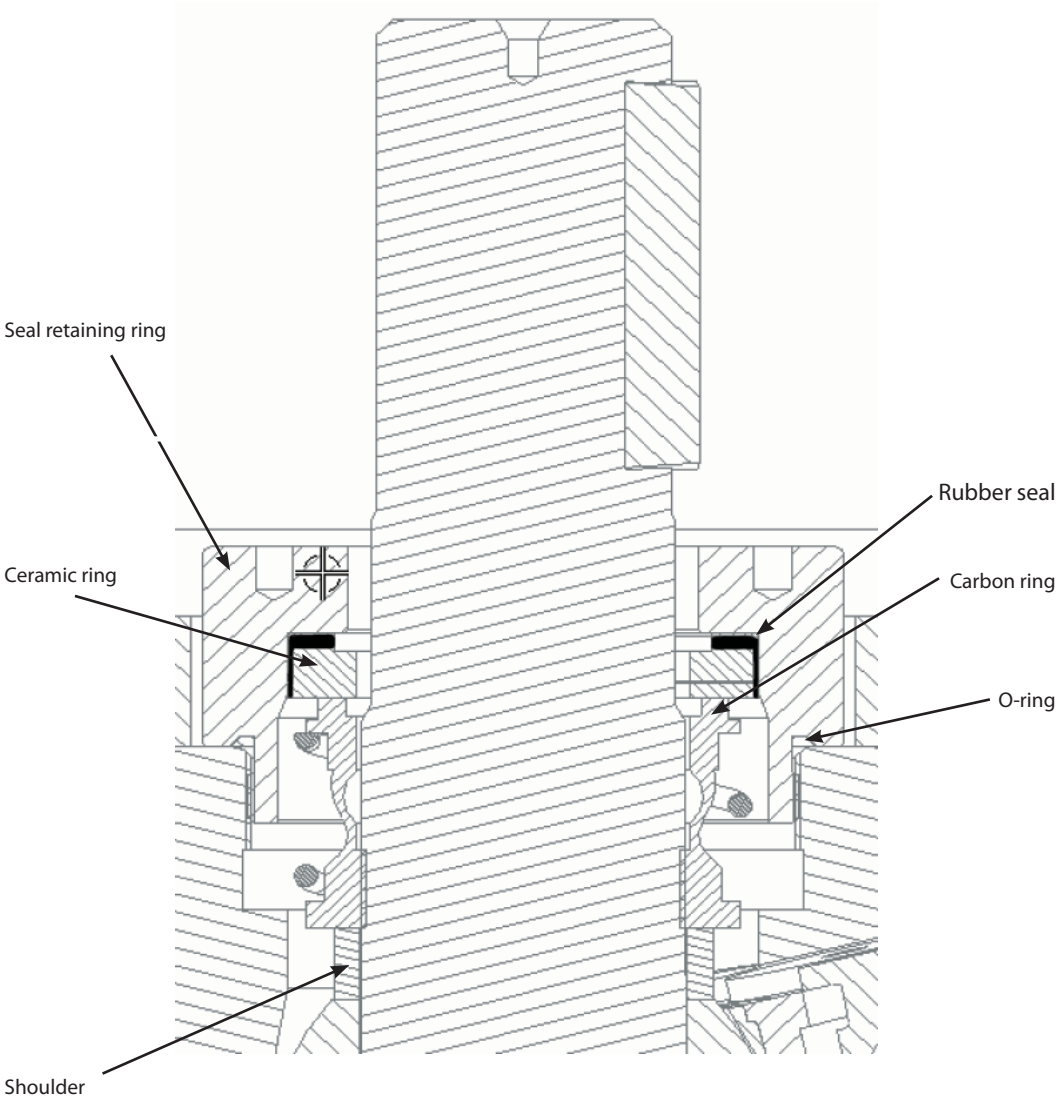
11. Place the O-ring on the seal SAE flange.

12. Mount the seal SAE flange on the housing.

11. Screw the 4 screws into the flange and the housing. T**o prevent cold welding, lubricate the threads on the 4 screws with grease**, 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 8 ± 1 Nm using the tool provided.




Seal retaining ring
Ceramic ring
Shoulder
Rubber seal
Carbon ring
O-ring