# avrora-arm.ru +7 (495) 956-62-18

ENGINEERING TOMORROW



Service guide

# **APP pumps** APP 0.6 - 1.0 Disassembling and assembling





### Service guide | Disassembling and Assembling, APP 0.6-1.0

### Table of Contents

## Contents

Intro	oduction	2
1.	Disassembling and assembling the pump	3
2	Removal of flushing valve	6
3.	Change of shaft seal	7
4.	Exploded view APP 0.6-1.0	10

## Introduction

# NOTE: If the pump is disassembled within the warranty period, the pump is no longer covered by the warranty.

This document covers the instructions for disassembling and assembling the axial piston pump APP 0.6-1.0

mortant: It is accontial that the nump is

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

To understand the pump design better, please see exploded view on last page.

#### Tools needed:

Shaft seal tool (code no. 180B4142)

- Seal set (code no. 180B4141)
- 2 Screwdrivers

WARNING: Do not reuse disassembled O-ring or shaft seal as they might be damaged.





1. Disassembling and assembling the pump



 Unscrew the 4 mounting screws and remove 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.





4. Carefully turn the whole pump over so that the shaft is facing down. Support the pump in a suitable hollow base so that the pump is not supported by the shaft.













Locating hole

Guide pin







15. Position the housing on the port flange and over the guide pin.



16. Hold the pump topgether and carefully turn it over to rest on the housing. To prevent seizing-up, lubricate the threads on the 2 screws and screw them into the port flange and the housing. Use Molykote D paste from Dow Corning or Klüber UH1 84-201 from Klüber lubrication. Tighten the 2 flange screws accordiing to exploded view.





Danfoss



19. Lubricate the 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. Tighten screws according to exploded view.

## 2. Removal of flushing valve



Danfoss



5. Mount flushing valve by pressing it into the hole.



6. It must be pressed down so it levels with the surface of the port flange (same level). In order to find out if the valve is working correctly, the pump needs to be further dismantled. To work correctly a small flat edged wire is pushed against the flushing valve. You should be avle to move it a couple of mm and feel the load of the spring pressing backwards.

#### 3. Change of shaft seal















the shoulder, by hand.

 Push the new ceramic ring into the flange using the plastic tool provided. Make sure the face with the rubber seal is positioned against the shoulder in the flange.
Wet the parts with clean (filtered) soapwater before assembly.













# avrora-arm.ru +7 (495) 956-62-18

ENGINEERING TOMORROW

Danfoss

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.