

FPS MH series

50 Hz Horizontal Multistage Centrifugal Pumps

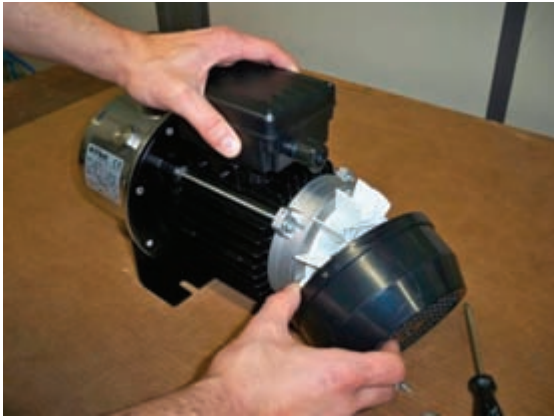


Assembly and Disassembly Instructions



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Disassembly Procedure



1. Unloose the screws of fan cover and remove it.



2. Remove the fan by means of a screwdriver.



3. Remove the plugs from the pump casing



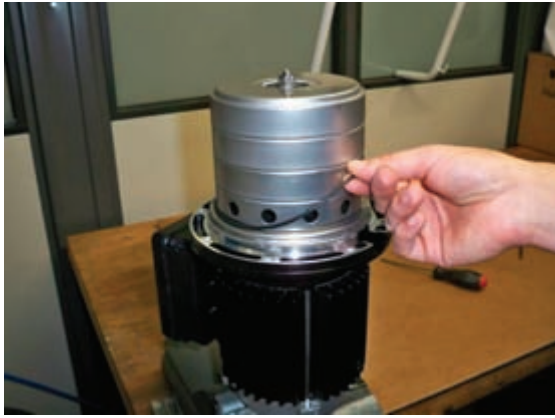
4. Using a bench vice lock the pump from the motor shaft then release the preload screws as shown in the picture.



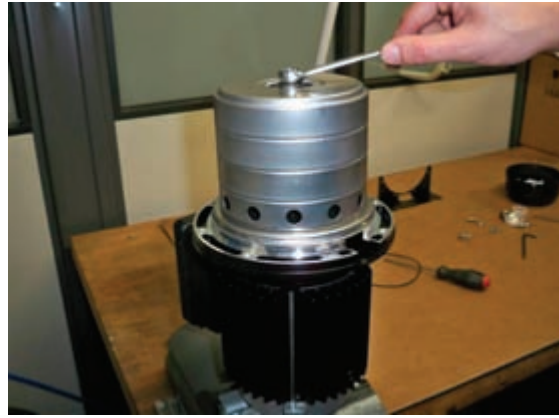
5. Remove the motor holder.



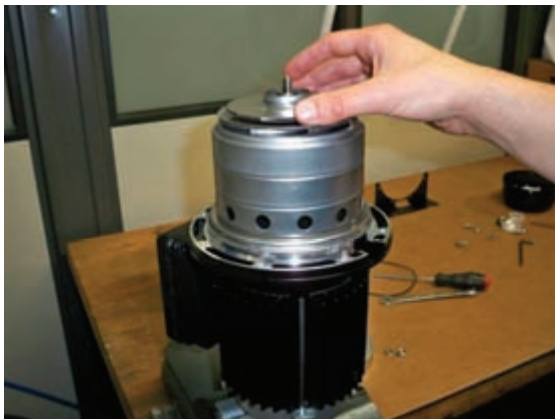
Disassembly Procedure



7. Remove the O-ring from the seal plate.



8. Unscrew and then remove the impellers' pre-loading nut and washer.



9. Remove stages, spacers and impellers.



10. Remove the mechanical seal locking disk, split rings and washer.



11. Insert the specific tool /pipe having very fine wall) between the rubber of the mechanical seal and the shaft. Pull the tool holding the mechanical seal upwards to the end of the shaft.



12. Pull out the seal plate.

Disassembly Procedure



13. Remove the static portion of the mechanical seal from the seal plate.



14. Unscrew and then remove the tie bolts.



15. Pull out together the rotor and motor flange.



16. Remove the motor cover and the compensation ring.



17. Extract the rotor from the motor flange.



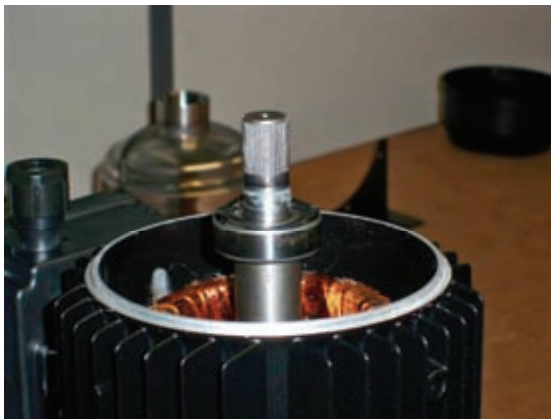
Re-assembly Procedure



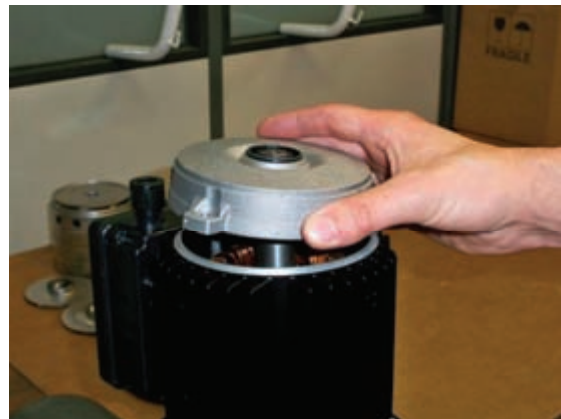
18. Insert the rotor into motor flange.



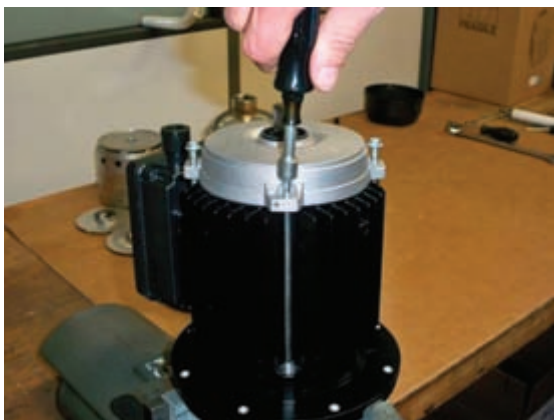
19. Couple the stator 19. Insert the rotor into motor flange. with motor flange.



20. Place the compensation spring on top of motor bearing.



21. Couple the motor flange.



22. Insert and fasten the tie bolts.



23. Put motor up side down and lock the shaft with a bench vice.

Re-assembly Procedure



- 24.** Use the alcohol to lubricate the static part of the mechanical seal and then put the seal into its housing.



- 25.** Place the seal plate as shown.



- 26.** Lubricate the mechanical seal, and slide it down on the shaft. If available use the supplied tool to ease this operation.



- 27.** Bring the seal faces together and remove the tool.



- 28.** Position the washer, split rings and disk.

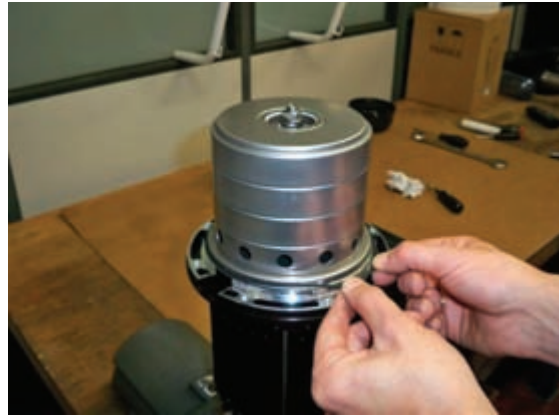


- 29.** Position the impellers, the spacers and pump stages.

Re-assembly Procedure



30. Tighten firmly the preloading nut and its washer.



31. Couple the O-ring to the seal plate.



32. Lubricate the O-ring with alcohol and then position the pump casing.



33. Position the motor holder.



34. Secure the pump casing to the motor by tightening the pre-loading screws.



35. Screw up the inlet and discharge plugs.

Re-assembly Procedure



36. By means of a mallet put back the motor fan.



37. Position the motor fan cover and tighten it firmly.



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