

INSTRUCTION SHEET

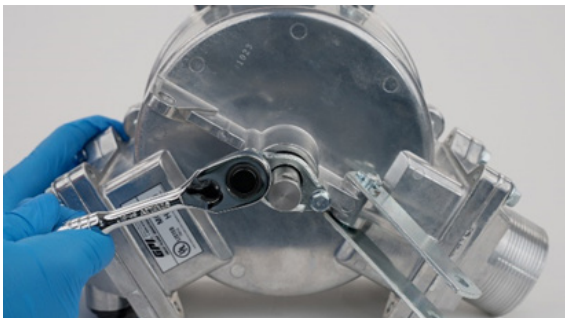
HP-100 Piston Kit Rebuild

ACTION

1. Disconnect the hose and remove pump from tank.
2. Remove cotter and clevis pins for handle.



3. Remove handle.
4. Using a 5/16 socket remove the retainer plate from the back of the pump



5. Remove bearing located behind the retainer plate.



6. Using a 7/16 socket, remove the front coverplate and O-ring from the pump



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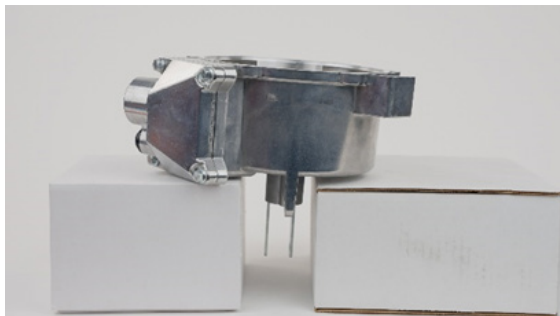
7. Remove piston from pump housing.



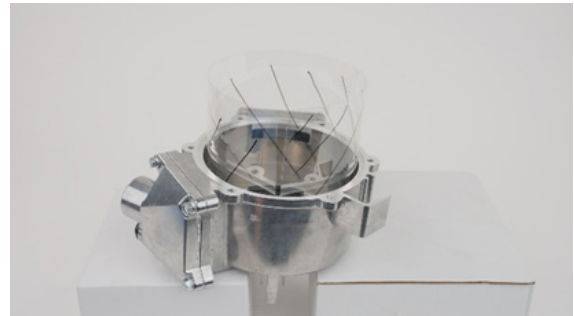
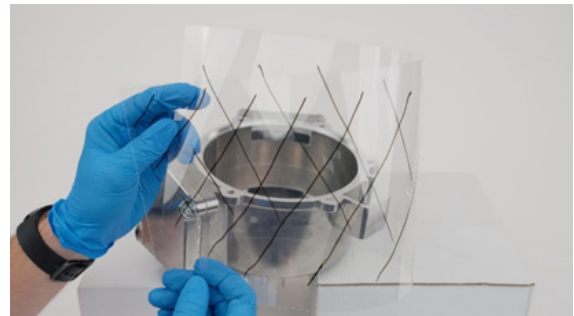
8. Remove the packing seals (3) from the back of the pump



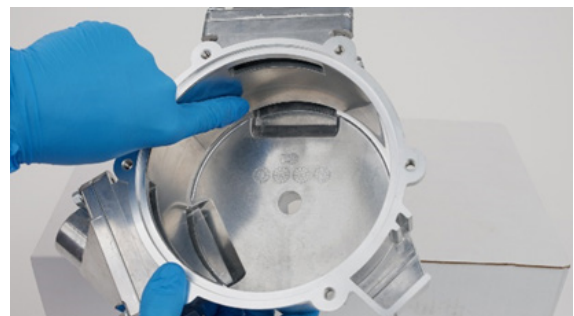
9. Place pump, cavity facing up, on 2 blocks (min height of 12" each). Ensure that pump is levelled and there is no obstruction in between the blocks that may block travel of piston shaft insertion.



10. Place mylar film vertically inside and around pump cavity, forming a cylinder.



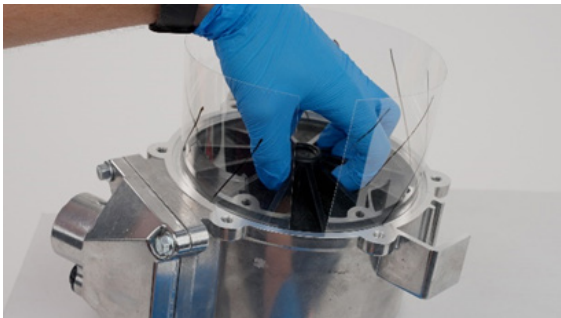
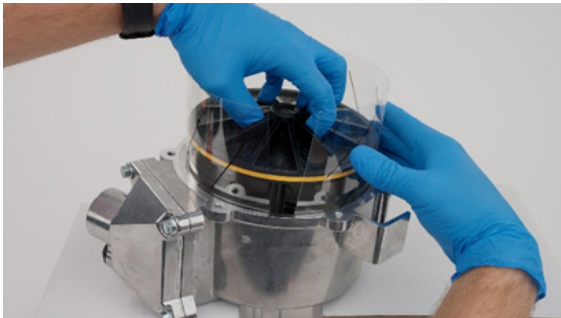
11. Rotate film to ensure ends of film are not located on the slots in pump.



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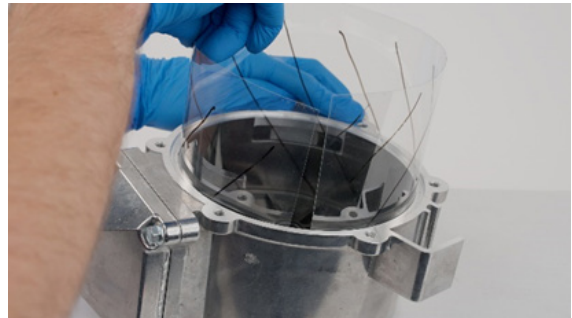
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12. Carefully feed piston into cylindrical cavity with shaft down. Feed piston shaft into hole of pump cavity. It is recommended to hold the piston by the ribs.

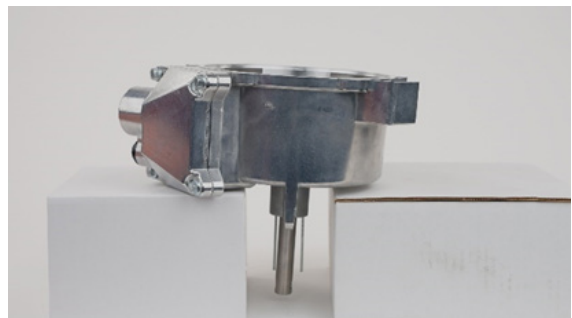


Ensure that mylar film remains vertically straight through the entire assembly process.

13. When piston ring reaches the top edge of pump cavity, gently pull film upwards approximately $\frac{1}{2}$ ", ensuring the film is still around the piston and within pump cavity. Note that the mylar film should still be covering the slots.



14. Slowly push piston all the way down until fully compressed. Remove film from pump cavity.



Ensure that mylar film stays in position and does not follow the piston down into the bottom edge of the cavity.

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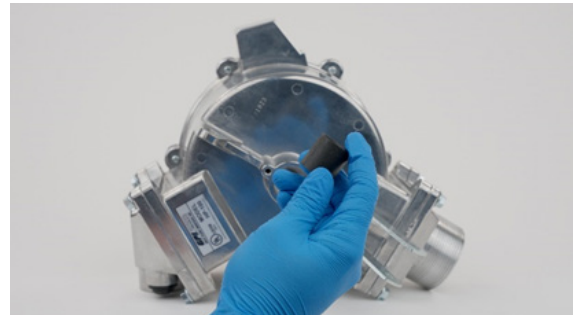
15. Replace O-ring and front coverplate.



16. Install new packing seals (3). Slide over shaft, ensuring 3 slits in the seals are offset from each other.



17. Reinstall bearing and retainer plate. Tighten both screws evenly until snug.



18. Reattach pump handle, then replace pump on tank with hose and test.