







Tel: 01482 325456 Fax: 01482 212869

Email sales@morcoproducts.co.uk

Web www.morcoproducts.co.uk

Replacing the Diaphragm

1. Remove the plate heat exchanger.
2. Undo the four screws on the diaphragm housing, keeping the two halves of the housing together.
3. Separate the diaphragm housing, noting the position of the diaphragm spring and the by-pass seating/spring.
4. Replace the diaphragm.
5. Fit O ring No: 111 fully into the brass housing.
6. Position diaphragm spring and by-pass seating/spring onto diaphragm housing and re-attach onto the brass housing and tighten the four screws.
7. Re-attach the plate heat exchanger.

Repairing/Replacing Spindle Assembly

1. Remove the plate heat exchanger.
2. Undo the four screws on the diaphragm housing, keeping the two halves of the housing together.
3. Separate the diaphragm housing, noting the position of the diaphragm spring and the by-pass seating/spring.
4. Remove the brass housing from the right side of the porting block by removing the large U clip.
5. Carefully unscrew the two brass bushes (200) from the brass housing and remove the O ring holders and plastic washers from both sides of the brass housing.
6. Clean the brass housing and replace the plastic washers and O ring holders and screw in the new brass bushes and grease the O rings with an approved silicone grease.
7. Remove the spindle from the right side of the porting block and then remove the porting cone and brass spacer of the spindle.
8. Replace the two O rings on the porting cone.
9. Refit the brass spacer onto the new spindle (long side) and then fit the porting cone (large end first) onto the spindle (long side).
10. Remove the second large U clip from the left side of the porting block and separate the porting block from the flow block.
11. Remove the brass washer/spring and the second porting cone.
12. Replace the two O rings on the porting cone.
13. Refit the porting cone into the left side of the porting block (small end first) and refit the spring/brass washer.
14. Attach the flow block back onto the left side of the porting block and refit the U clip.
15. Refit the new spindle into the right side of the porting block ensuring the spindle pushes into the left side porting cone on the flow block.
16. Attach the brass housing onto the right side of the porting block and refit the U clip.
17. Replace the diaphragm.
18. Fit O ring No: 111 fully into the brass housing.
19. Position diaphragm spring and by-pass seating/spring onto diaphragm housing and re-attach onto the brass housing and tighten the four screws.
20. Re-attach the plate heat exchanger.

NOTE: Grease all O rings with water approved silicone grease, this will make fitting much easier.