
Deployment preparations for Aanderaa Shallow Water Instruments

This document describes deployment preparation instructions that apply to SEAGUARD Shallow Water instruments, RCM Blue and SeaGuardII DCP Shallow Water.

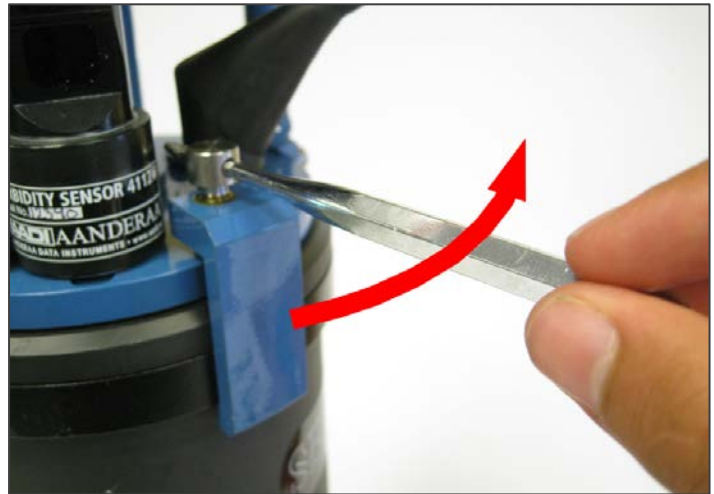
For general technical support issues, please contact aanderaa.support@xylem.com

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1. Opening the instruments

Untighten the C-clamps using the provided tool (turn anti-clockwise to untighten).



Remove both C-clamps.



Carefully lift the instrument main module out of the pressure case.



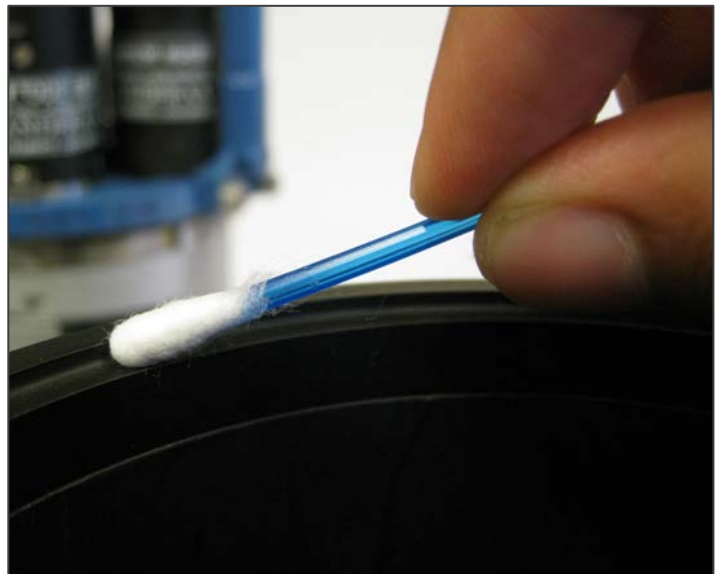
2. Clean o-ring surfaces

Recommended equipment:
detergent, paper or cloth and cotton sticks.

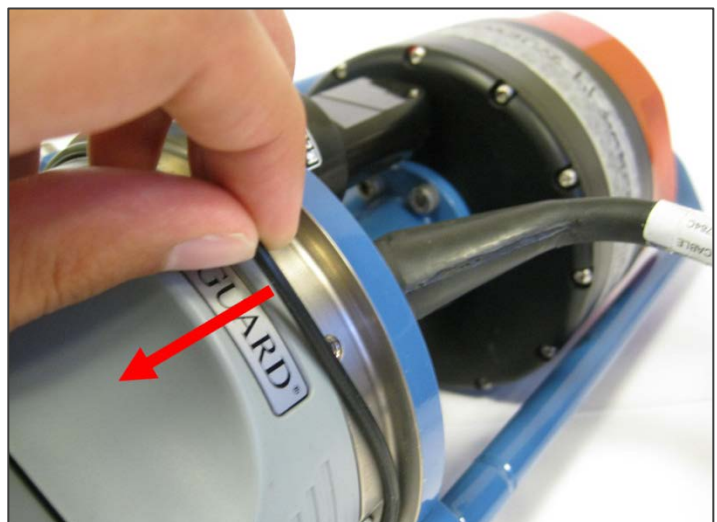


Clean the o-ring groove (in the pressure housing) using a detergent and a cotton stick. Remove old grease and particles from the groove.

Do **not** use acetone on the pressure housing.



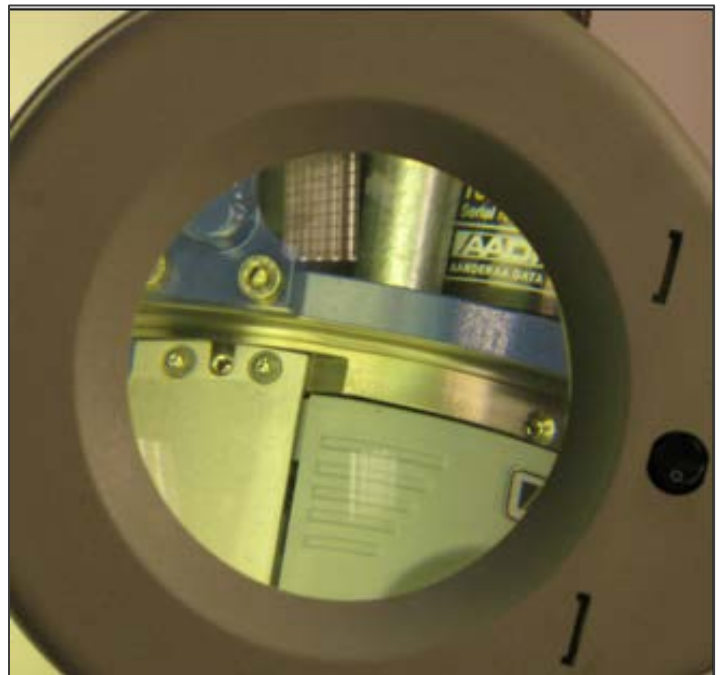
Remove old o-ring. Do not use sharp tools (it may damage the o-ring groove and cause water intrusion)!



Clean the o-ring groove with detergent. Use acetone if necessary. Avoid using sharp tools.



Inspect o-ring grooves. Preferably use a bright lamp and a magnification device. Check for unremoved particles and scratches.

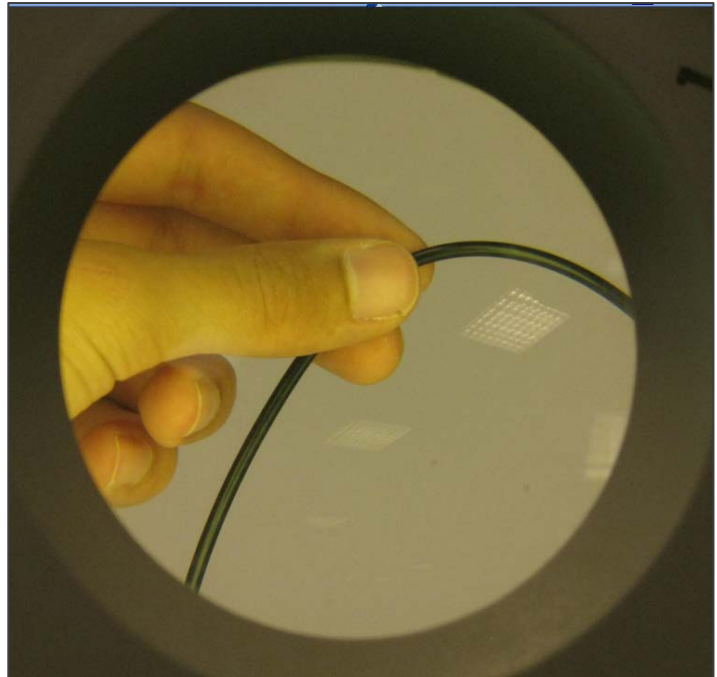


Inspect o-ring grooves in the pressure case. Preferably use a bright lamp and a magnification device. Check o-ring groove for unremoved particles and scratches.



3. Inspect o-ring and apply grease

Inspect o-ring. Check for deformation and dust / particles. The o-ring should be flexible.

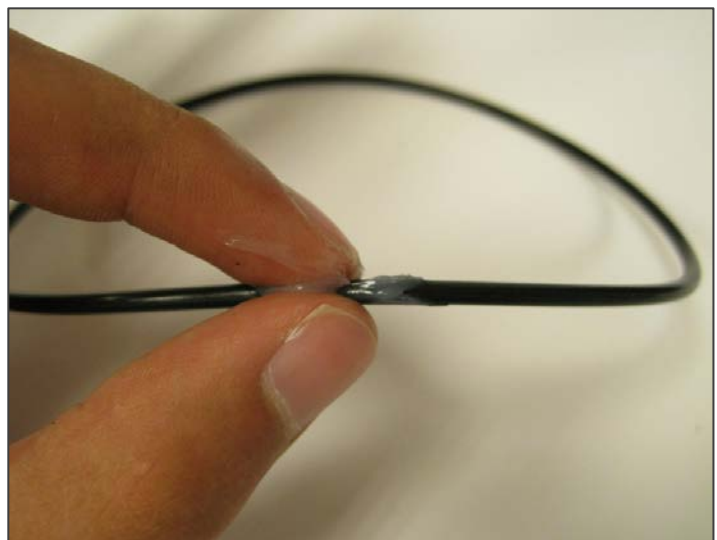


Example: Bad o-ring

- Deformation
- Loss of flexibility
- Dust / particles

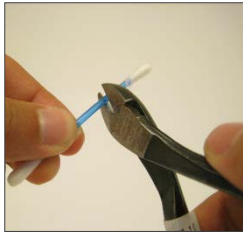


Apply new grease to o-ring.

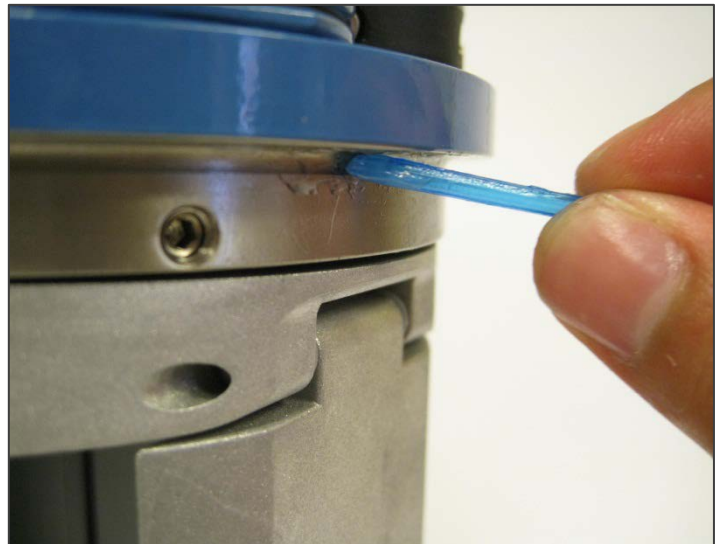


Article no.: 1260013
Also included in maintenance kit
0973813.

Apply new grease to the o-ring groove in the top end plate.



Remove cotton end from cotton stick.



Put on the new o-ring.

Article no: 1865000

Also included in maintenance kit 3813.

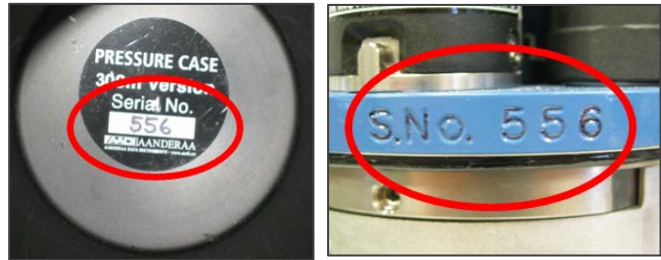


Wipe off grease.



4. Reassemble instrument

Check that the serial numbers match. The pressure case should have the same serial number as the instrument main module.



Carefully lower the instrument main module back into the pressure case.

Keep the main module straight when lowering it into the case.



Rotate the instrument main module 1/4 turn in the pressure case.

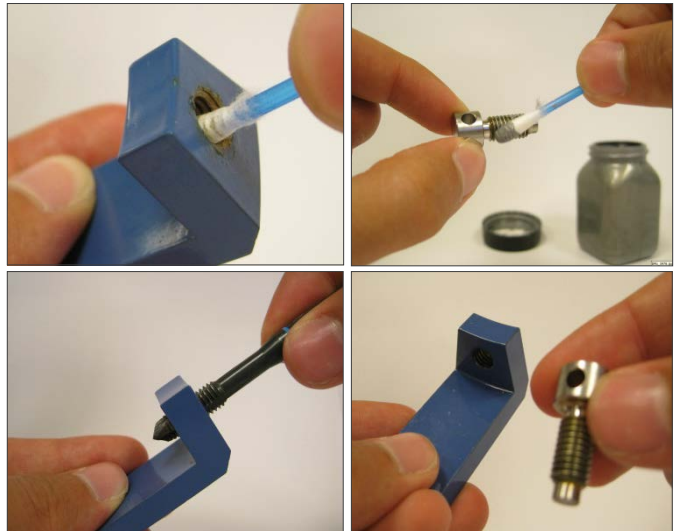
Do not turn the pressure case.



Cleanse and apply un-lock on the C-clamp screws. Then make sure the screws turn smoothly.

If necessary, use a taper tap (not provided) for cleansing.

Un-lock article no: 0973739.



Put the C-clamps back on.



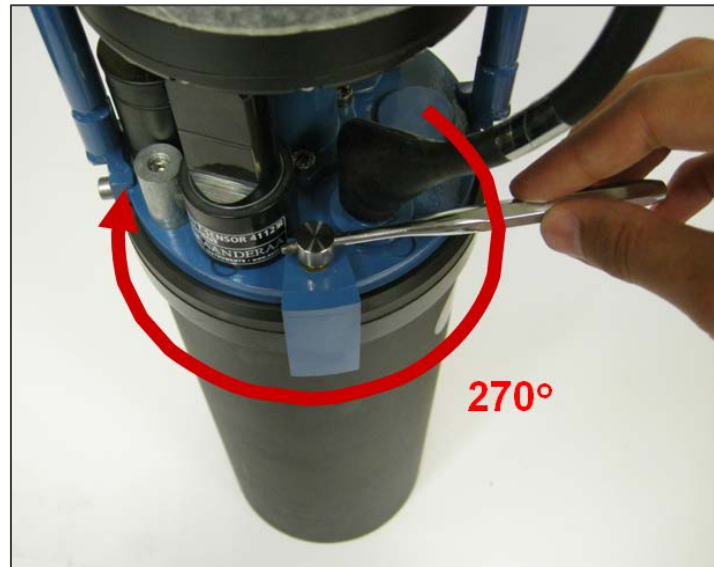
Use your fingers to turn the screws until they stop.

Do not tighten the screws on this step.



Then turn the screws 270°, using the provided tool.

Note! It is important not to overtighten the C-clamp as this will deform the C-clamp and can in worst case lead to water intrusion.



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