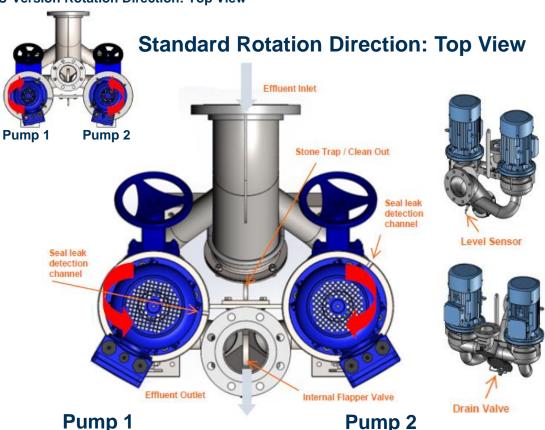
### **Monthly Maintenance Procedure**

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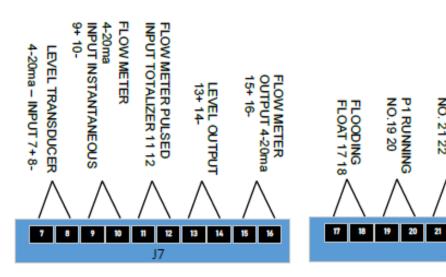




**U-Version Rotation Direction: Top View** 



### **Terminal Board Connections:**



## **Recommended Monthly Checks:** Regularly Check Level Sensor.

- Sump pump is operational, and the sump is clean and dry
- No alarms are present on the variable frequency controller screen
- Confirm the swing check is working properly. Removal of inspection cover maybe required if plugging or leaking is suspected
- No abnormal vibrations or elevated temperatures of the motor or in control panel
- Inspect stone trap/clean out is not full of debris
- Inspect motor fan shroud to confirm free of debris
- No leaks present on the pump; visual inspection of the seal leakage detection channel
- Inspect the internal flapper valve (a proper valve should not cause rotation of opposite motor during pumping)

### Fault Codes (see full list in IOM):

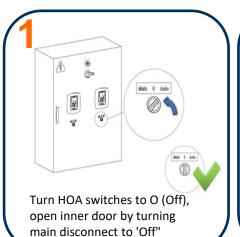
Ground fault)	inspection of the motor or cabling.
15: Motor Stall (Motor over temp)	The motor's anti-stall protection has been tripped, check for foreign material in the volute preventing pumping.
17: Auto-Level (Under-load)	The pump is not primed. Check the upstream network for water as well as calibration of the level sensor. (The system must be empty during level sensor calibration.
50: Sensor Loss	Check for proper functioning of level sensor (Preset run mode at fixed frequency)



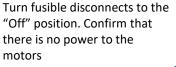


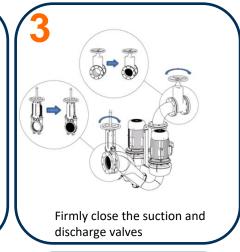


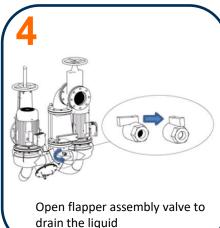


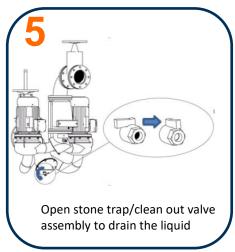




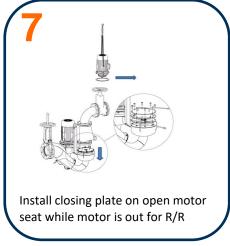


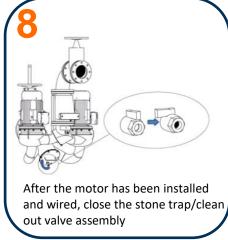




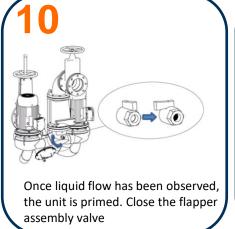




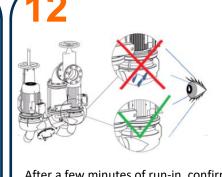


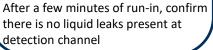












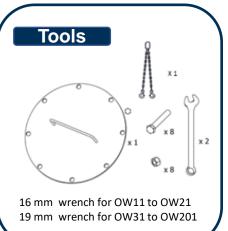


motor rotation is accurate



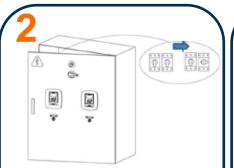








Turn HOA switch to 0 for faulted motor. The operational motor can stay on-line and pumping liquid during this operation (with C-version Body)

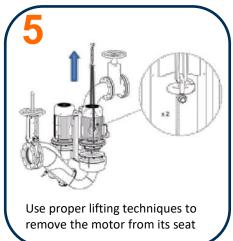


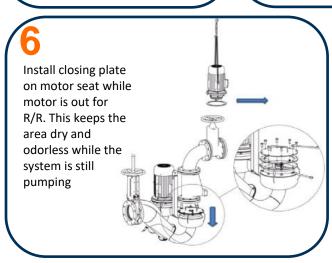
Turn fusible disconnect on failed motor to off. The operational motor can stay on-line and pumping liquid during this operation (with C-version Body)

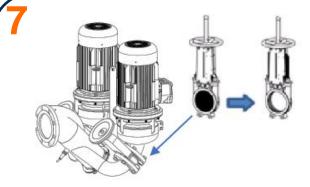


Fully close the branch isolation valve of the motor that will be replaced. The valve or the operational motor must remain open









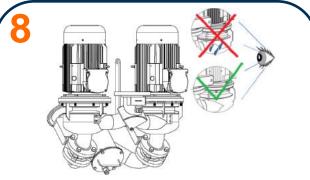
After the motor has been installed and mounting bolts are tight, the branch isolation valve can now be fully open

# **Over**Watch

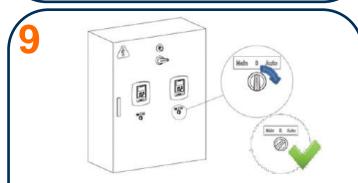
Direct In-Line Pump System



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After a few minutes of run-in-confirm that there is no visible leaks, and no water is leaking from the seal leak detection channel



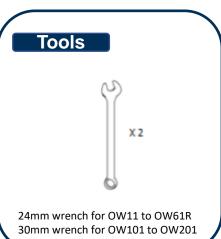
Power the control panel's fusible disconnects & turn the HOA switch to Auto. Confirm the motor rotation is accurate

### **Swing Check Value Removal Procedure**









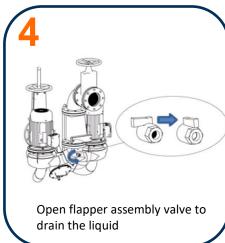


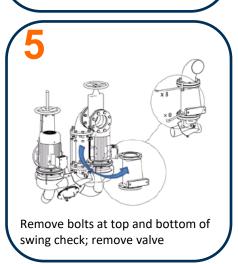
Turn HOA switches to O (Off), open inner door by turning main disconnect to 'Off")



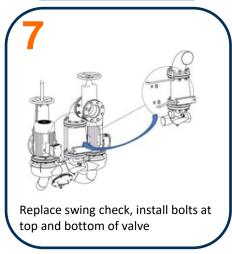
Turn fusible disconnects to the "Off" position. Confirm that there is no power to the motors

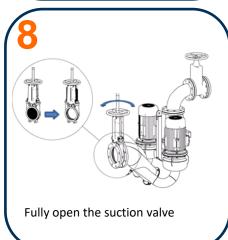






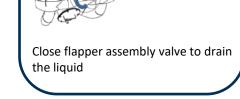
















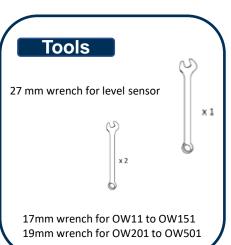


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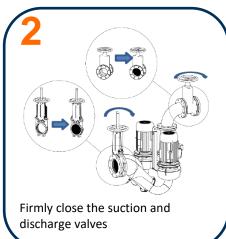
### **Over**Watch www.flowsolutions.com Direct In-Line Pump System

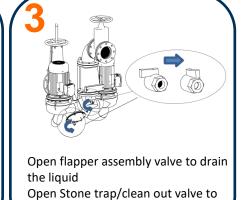






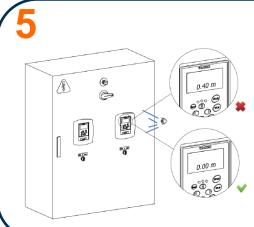




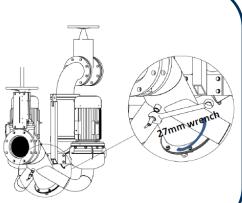


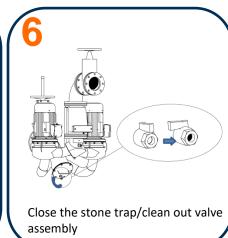
drain the liquid





- When emptied, if the level sensor is reading over 16" (40 cm) the sensor is out of tolerance, replace the sensor.
- If the level sensor does not vary with the flow, replace the
- -If the read error is below 16" (40cm), increase level thresholds to account for this tolerance. (If an adjustment has previously been accounted for, replace the level sensor shortly

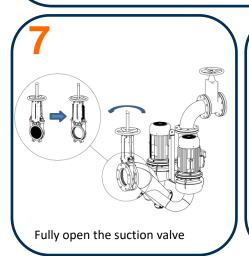


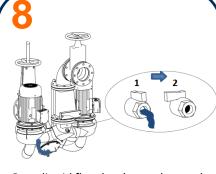






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Once liquid flow has been observed, the unit is primed. Close the flapper assembly valve



