EASY-nLC™

Troubleshooting note

How to troubleshoot a pump failing Leak Test script

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1. Go to Maintenance/Scripts/Prepare and run Flush Air script for the relevant Pump with a Flush Volume of 10 µL. If the Output reports Insufficient Backpressure, refer to the Troubleshooting Note entitled How to troubleshoot a pump failing Flush Air script.
2. Go to `Maintenance/Scripts/Test/Leaks/Parameter` and select the relevant pump or both A+B.

3. If `Leaks` fails the leak is either in the Pump, Valve or connecting lines/fittings. Further troubleshooting can only occur when the script is completely finished.

4. Remove the fitting from the top of the relevant pressure sensor, and replace with a LC223 blanking nut. Ensure this is fully tightened.
5. Repeat the **Leaks** script, and then remove the **Blanking nut** and replace the original fitting, and assess the result of the script.

   a. **Pass:** Indicates that piston seal is leak tight and leak is between **Pressure Sensor** and **Valve**. Continue to 6
   b. **Fail:** Indicates that leak is between the **Pressure Sensor** and **Pump**. Continue to 7

6. Confirm **fittings** between **Pressure Sensor** and **Valve** are leak tight. If no problems are identified then **replace** worn **rotor** and **clean** and if required, **replace stator**. Refer to **How to clean valve stator** and **How to replace a valve rotor and or a stator**.

7. Confirm **fittings** between **Pump** and **Pressure Sensor** are leak tight. Then repeat **Leaks** script. If the result is **Fail** again, a worn piston seal might have been identified. Refer to **How to replace a piston seal**.