

PROCEDURE : MODIFY CLX BYPASS LINE TO SEPARATE FROM MAIN DRAIN

PURPOSE: Simplify Grab Sample Collection for the CLX

- **Modify CLX by-pass line - allow it to be used as the grab sample line for the CLX.**
When separated from the main drain water collected from the by-pass line will not affect the sample flow to the CLX or be contaminated by reagent. Using this modified sample port will help ensure calibration is a simple and accurate process and will eliminate the potential for opening a sample valve affecting the flow to the CLX and causing an error in reading.
- **MANDATORY: Contact Operations prior to removing unit from service**
- Shut off Flow to the CLX
- Shut off Power off the CLX
- Carefully remove the bypass tube from the CLX intake assembly (the fitting is located above the pressure regulator, the tube is a 1/16" ID tube)
- Carefully remove the 1/8" NPT "vent fitting" located under the reagent pump.
- Replace the 1/8" NPT "vent fitting" with the 1/8" NPT x 1/16" barb fitting from the kit
 - Barb installs on the inside of the enclosure with the threads showing on the outside of the enclosure.
- Install the 1/8" NPT x 1/4" OD push to connect fitting from the kit on the 1/8" NPT threads which extend from the bottom of the enclosure.
- Carefully connect the supplied 1/16" tubing from the bypass modification kit to the bypass fitting barb on the intake assembly and the 1/16" barb on the replacement fitting just installed
- Connect the length of 1/4" OD black tubing to the push to connect fitting just installed and route to drain, leaving enough flexibility to permit using the 1/4" tube for your grab sample collection point. NOTE: Depending on the initial installation of the CLX it may be necessary to modify the drain to accommodate the second drain line (1/4" tube must also be routed to drain, but access must be left to use it for grab sample)
- Restore water flow to the CLX
 - Check for leaks
- Restore power to the CLX
 - NOTE: It should not be necessary to adjust the FLOW setting but check the CLX FLOW using the FLOW ADJUST procedure to confirm. Adjust if needed.
 - Label the bypass drain as the sample point for the CLX and advise appropriate staff of the modification.
- The CLX by-pass line is now the sample line for the CLX, it has been separated from the main drain and water collected will not affect the sample stream to the CLX or be contaminated by reagent. Using this sample port will help ensure calibration is a simple and accurate process and will eliminate the potential for opening a sample valve affecting the flow to the CLX and causing an error in reading.

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- Carefully remove the bypass tube from the CLX intake assembly (the bypass is located above the pressure regulator and is installed between the regulator and the intake solenoid, the tube is a 1/16" ID tube. The bypass may be either Stainless or PVC depending on when the CLX was manufactured)
- Carefully remove the 1/8" NPT "vent fitting" located under the reagent pump.
- Replace the 1/8" NPT "vent fitting" with the 1/8" NPT x 1/16" barb fitting from the kit
 - Barb installs on the inside of the enclosure with the threads showing on the outside of the enclosure.
- Install the 1/8" NPT x 1/4" OD push to connect fitting from the kit on the 1/8" NPT threads which extend from the bottom of the enclosure.
- Carefully connect the supplied 1/16" tubing from the bypass modification kit to the bypass fitting barb on the intake assembly and the 1/16" barb on the replacement fitting just installed
- Connect the length of 1/4" OD black tubing to the push to connect fitting just installed and route to drain, leaving enough flexibility to permit using the 1/4" tube for your grab sample collection point.
NOTE: Depending on the initial installation of the CLX it may be necessary to modify the drain to accommodate the second drain line (1/4" tube must also be routed to drain, but access must be left to use it for grab sample)

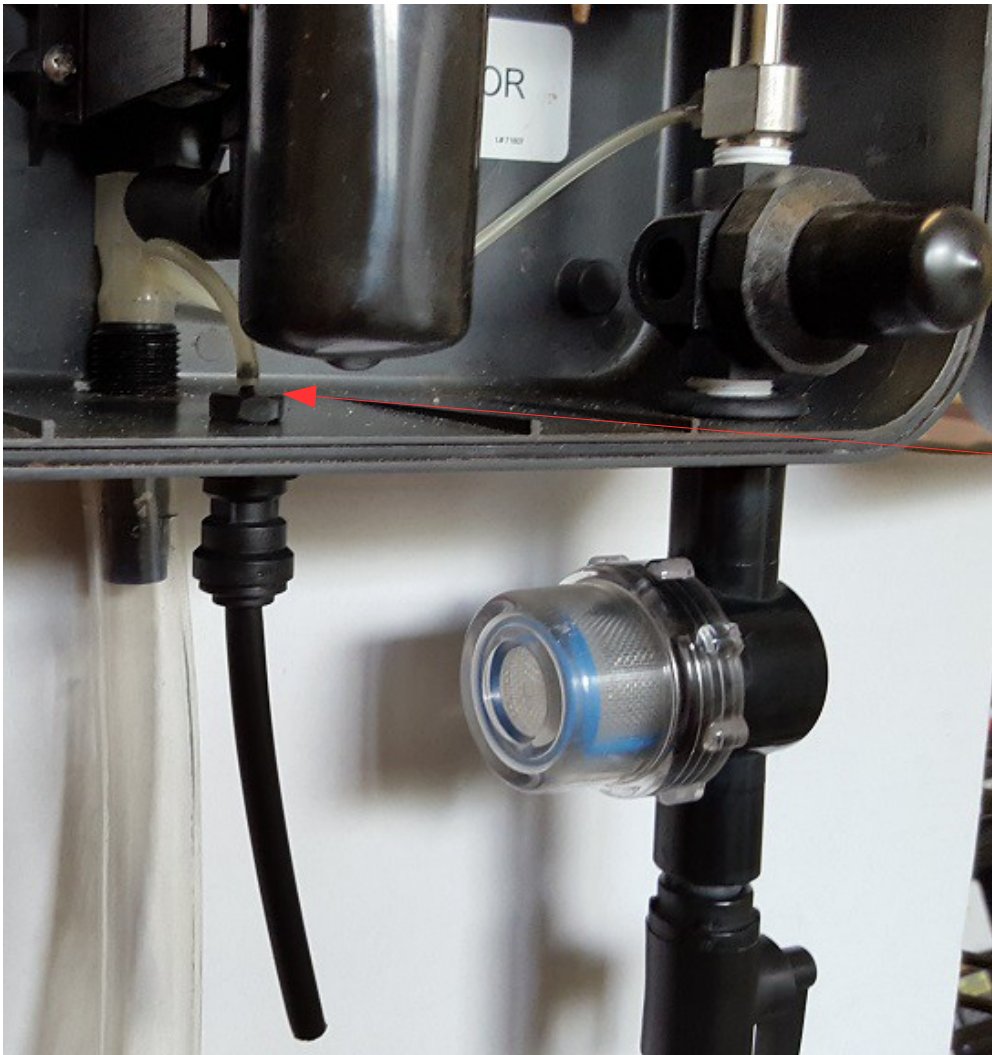


Image to the left shows completed installation of the bypass assembly drains. Image includes an modification to the intake to include plumbing the TEE Strainer directly onto the cabinet, there is a shut off valve (not part of the bypass kit) shown beneath the TEE Strainer.

Please note for later kits the plastic internal cabinet fitting has been replaced with a metal fitting (not pictured here).

Remember the metal fitting with the 1/16" barb goes inside the enclosure and the 1/8" MNPT x 1/4" push to connect fitting goes on the outside of the enclosure.

Note the photo shown uses an nearly clear bypass tubing inside the enclosure. The kit is supplied with a black bypass tube.

