

Flushing the Solenoid Valves

During normal instrument use the solenoid valves may become clogged. To remove most clogs from the solenoid valves follow the instructions below.

Valve Identification

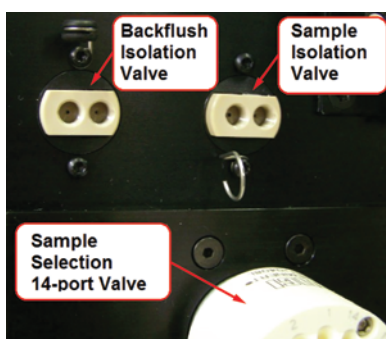


Figure 1. Revised solenoid valves

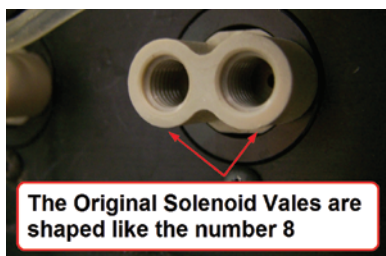


Figure 2. Original solenoid valve

Materials Needed

- Flush Kit (Part #: 344345)

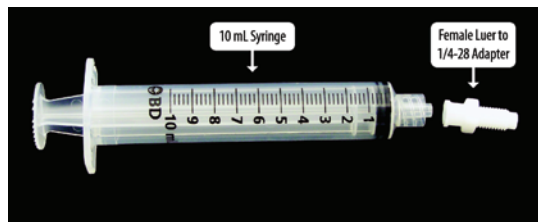


Figure 3. Solenoid valve flushing apparatus.

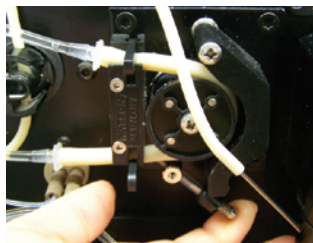


Figure 4. Removing the tubing from the backflush peristaltic pump.



Figure 5. Pushing dH₂O through the solenoid valve.

Instructions

- Disconnect the tubing nuts on the clogged isolation valve and screw the adapter into the left side of the valve. Place a paper towel over the right side of the valve to capture the dH₂O as it exits the valve. **Figures 1 and 2** show the location and types of solenoid valves.

- Connect the 1/4-28 Female Luer Adapter to the 10 mL syringe (**Figure 3**) and then fill the syringe with dH₂O.

To flush the Backflush Isolation Valve:

- Remove the tubing from the backflush peristaltic pump so buffer does not flow out of the backflush line (**Figure 4**).
- Select Backflush {1} from the KinExA Pro software to open the valve. While it is open, push dH₂O into the valve (**Figure 5**).

To flush the Sample Isolation Valve:

- Open a Fast Rinse {6} from the KinExA Pro software and run a rinse with only the buffer checked. While the valve is open, push dH₂O into it (**Figure 5**).
- You may need to flush the valve several times in both sides of the valve until liquid moves easily in and out of the valve while the valve is open.
- If the clog does not clear, contact a Sapidyne representative for assistance.