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

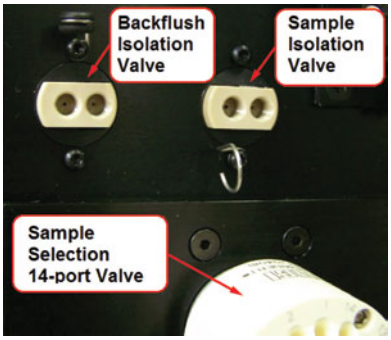

Figure 1. *Revised solenoid valves*

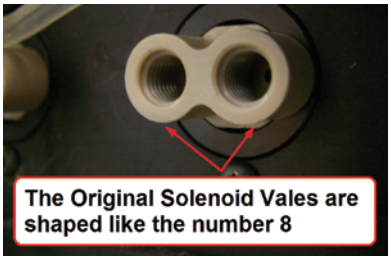

Figure 2. *Original solenoid valve*

Materials Needed

- Flush Kit (Part #: 344345)

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 dH_2O 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 dH_2O.

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 {} from the KinExA Pro software to open the valve. While it is open, push dH_2O into the valve (***Figure 5***).

To flush the Sample Isolation Valve:

- Open a Fast Rinse {} from the KinExA Pro software and run a rinse with only the buffer checked. While the valve is open, push dH_2O 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.

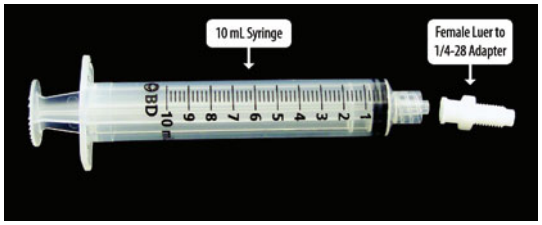

Figure 3. *Solenoid valve flushing apparatus.*

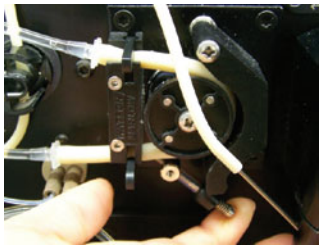

Figure 4. *Removing the tubing from the backflush peristaltic pump.*

Figure 5. *Pushing dH_2O through the solenoid valve.*