XCalibur Valve Replacement

Use this guide to replace the XCalibur valve on the KinExA® instrument.

Verify that you have the correct valve for the pump

- The valve type depends on the version of syringe pump. Identify the pump by evaluating whether the pump has a lead screw or not (*Figure 1*).
- The following are instructions for changing the XCalibur valve (Part #: 310125). If you have an XP pump, this valve will not fit.
 You will need an XP valve (Part #: 310120). See HG218 - XP
 Valve Replacement for instructions on replacing an XP valve.

Changing the XCalibur valve

- Turn the instrument off. Loosen the thumbscrew to release the syringe.
- Pull the syringe platform down. If it will not move, twist the lead screw to the right using your thumb (*Figure 2*). Try pulling the syringe platform down after a couple of turns.

- Unscrew the syringe barrel from the XCalibur valve. Remove the two black tubing nuts from the top of the valve.
- Use a Phillips #1 screwdriver to remove the screws from the front of the valve, and remove the old valve.
- Place the new XCalibur valve on the pump.
- Use the Phillips #1 screwdriver to attach the valve to the pump. Tighten the screws but do not overtighten.
- Reinstall the syringe barrel and tubing nuts on the XCalibur valve.
 Be sure they are all hand tightened.
- Pull up on the syringe platform to engage the bottom of the syringe plunger.
- Tighten the thumbscrew. Turn the instrument on and run several rinses to ensure the valve and syringe are functioning properly.

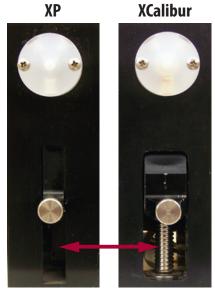


Figure 1. Valve type dependent on presence of lead screw. The XP Pump does not have a lead screw. The XCalibur Pump has a lead screw.



Figure 2. Twist the lead screw to the right to lower the syringe platform.