

## XCalibur Valve Replacement

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

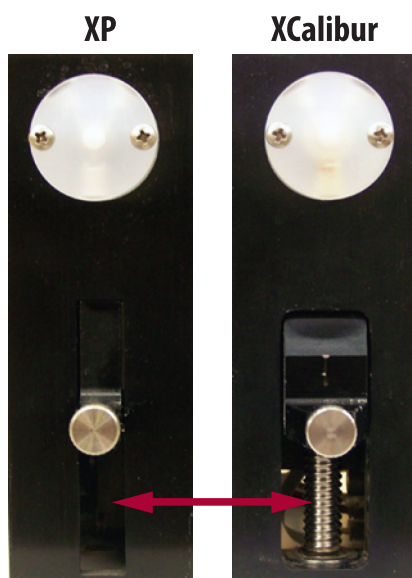
### Verify that you have the correct valve for the pump

- 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.