

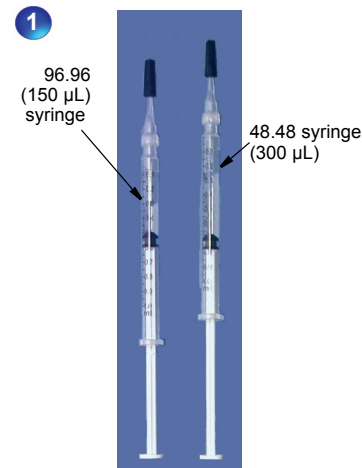
Fluidigm® Control Line Fluid Loading Procedure Quick Reference

PN 68000132, Rev. C

1 Unpacking the Syringes

- Remove syringes from packaging.
- The syringes are pre-filled with control line fluid according to a specific chip type.
 - The 48.48 syringes (with 300 μ L control line fluid) are used for 48.48 Dynamic Array™ IFCs as well as the Digital Array™ IFCs.
 - The 96.96 syringes (with 150 μ L control line fluid) are used for 96.96 Dynamic Arrays only.

NOTE DO NOT EVACUATE AIR FROM SYRINGES PRIOR TO STEP 4, *INJECTING CONTROL LINE FLUID*.



2 Actuating the Check Valves

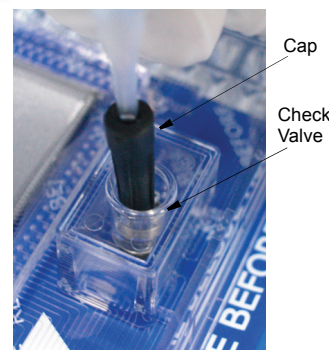
- 1 Place chip on a flat surface.
- 2 Use the syringe with the shipping cap in place to actuate both check valves of the chip with gentle pressure. Ensure that the poppets can move freely up and down.

3 Inserting the Syringe Tip into the Check Valve

CAUTION! CONTROL LINE FLUID ON THE CHIP OR IN THE INLETS MAKES THE CHIP UNUSABLE.

- 1 Hold the syringe firmly in one hand with tip facing up and away from chip, and remove the shipping cap with the other hand.
- 2 Holding the chip at a 45-degree angle, gently insert the syringe tip into the check valve opening. The tip should be fully inserted.
- 3 Visually confirm that the check valve is open. The O-ring seal at the bottom of the valve should be pushed down and moved to the side.

IMPORTANT! BE CAREFUL NOT TO BEND THE PIPETTE TIP.

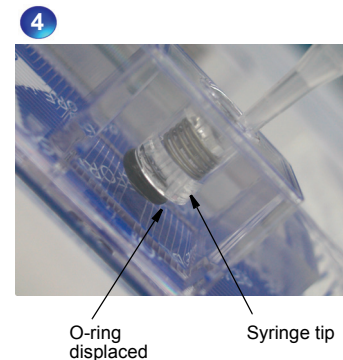


4 Injecting Control Line Fluid

- 1 Inject the control line fluid while maintaining the 45-degree angle to allow the fluid to flow away from the O-ring.
- 2 Slowly inject the control line fluid by pushing down on the syringe plunger. The control line fluid will flow into the accumulator through the open check valve.
- 3 After fully depressing the plunger, wait ~5 seconds before withdrawing the syringe.

NOTE CHECK TO MAKE SURE THE O-RING RETURNS TO ITS NORMAL POSITION AFTER THE SYRINGE IS REMOVED.

NOTE THE CHIP IS NOW READY FOR THE PRIME SCRIPT ON THE IFC CONTROLLER. PIPETTE SAMPLES AND ASSAYS WITHIN 60 MINUTES OF THE PRIME STEP.





Technical Support

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