

## BFP Syringe Instruction Sheet

Congratulations! You have purchased the Bubble Free Prime (BFP) syringe from Hamilton. We combine the highest quality materials with skilled craftsmanship, ensuring the highest possible performance level of every precision fluid device we manufacture.

**The BFP syringe manufactured by Hamilton Company is intended for scientific research and laboratory use only and is not intended for human *in vivo* use.**

### Instructions for Installation of Syringe into a New Valve

1. Before using the syringes on the Microlab 600 the plunger tip will need to be conditioned. To condition the plunger tip, first wet the tip and insert into the glass barrel, stroke the syringe 10 times while applying steady and even pressure; avoid twisting movements.

**IMPORTANT! To condition the tip and barrel, wet the plunger tip with deionized water or a solvent. Do NOT use viscous oils to lubricate plunger tips.**

2. Power the Microlab 600 instrument On by pressing the Power On/Off button.
3. Press and hold the Prime button. After three seconds, the syringe drive will begin moving down to allow for installation of the syringe(s). Release the Prime button when the syringe drives are approximately 50% from the bottom of stroke.
4. Thread the syringe into the valve until it makes contact with the bottom of the valve port.
5. After bottoming continue to tighten the syringe an additional 1/16, 1/8, or 1/4 of a turn as indicated by Table 1 below.

**Table 1. Additional Turn Recommended Ensuring Syringe Seal**

| Syringe Volume  | Turn      |
|-----------------|-----------|
| 10 – 100 µL     | 1/16 turn |
| 250 µL – 2.5 mL | 1/8 turn  |
| 5 – 50 mL       | 1/4 turn  |

6. Pull the plunger down to the drive stem and fasten the thumbscrew to the plunger. Holding the plunger and thumbscrew; gently screw the thumbscrew into the threaded plunger end. Make sure this is finger-tight. The syringe should now be properly attached to the Microlab 600.

**Note: Each pump comes with an Allen wrench in the accessory box. This Allen wrench may be used to secure the set screw on the valve(s) to hold the syringe(s) in place. Make sure not to overtighten.**

### Instructions for Installation of Syringe into an Existing Valve

1. Make sure the valve ports are free of debris. If there is debris in the valve port, flush the port with a compatible solution to what was used previously in the valve.
2. Follow steps 2 – 6 above.

## Warranty Statement

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product that fails due to such a defect will be repaired or replaced at our discretion without cost, provided the device is returned on a Return Materials Authorization (RMA). It is the responsibility of the purchaser to determine the suitability of application and material compatibility of the product based on the published specifications of the product.

## Return of Goods

Hamilton Company's return and repair policy is written to protect its employees from potentially hazardous materials (e.g., serum, radioactive materials, carcinogenic chemicals, etc.) or any substance that may cause them partial or permanent disability during the inspection or repair process. In returning a product, the customer acknowledges that the product is free from any hazardous materials. Furthermore, the customer assumes responsibility should the returned product prove to be hazardous.

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