

Syringe Calibration Service



Hamilton Company offers a calibration service for precision syringes and Digital Syringes. A Certificate of Calibration is provided with the product and the procedure is performed with an unbroken chain of calibrations traceable to N.I.S.T.

How to Order a Calibrated Syringe

Calibrated precision syringes are available only at the time of purchase. To order a calibrated syringe, add the prefix "CAL" to the beginning of the syringe's part number.

For example, to order a 701N, 10 μ L syringe (part # 80300), but calibrated, request part # CAL80300.

Digital Syringes are automatically calibrated prior to shipment. A recalibration service is available for the Digital Syringe. Simply contact Hamilton's Customer Service Department to obtain an RGA # (returned goods authorization number). Only return the digital unit without the syringe. Customer will be charged the calibration fee plus the cost of a syringe.

Tips to Assure Accuracy and Precision

- When using a Hamilton syringe, grasp only the syringe flange and plunger button. By doing so, variations in liquid measurement due to body heat are avoided.
- Pump the plunger with the syringe needle immersed in the fluid to be transferred. This will expel any trapped air in the needle and syringe. Minimize the use of a dry syringe.
- If the plunger is accidentally removed from the syringe barrel, wipe it carefully with a lint-free tissue. Reinsert the plunger into the barrel and pump deionized water or acetone through the needle and syringe. In the case of GASTIGHT plungers, re-wet the TEFLON® PTFE plunger tip prior to reinserting it into the barrel. Avoid touching the plunger since any abrasions, scratches, or oil from one's fingers will often interfere with proper plunger operation.

Syringe Lubrication

A clean syringe does not require any lubricating grease. Grease may cause a variety of problems including: sample cross contamination, seizing of the plunger in the barrel or barrel damage.