

# Syringes with Built-in Chaney Adapters

Congratulations! You have purchased the finest quality precision fluid management device available today. We combine top quality materials with skilled workmanship, ensuring the highest possible performance level of every precision fluid device that we manufacture. With proper care and handling, Hamilton Built-in Chaney Adapters will provide unsurpassed performance in precision liquid handling year after year.

**Syringes and needles manufactured by Hamilton Company are intended for scientific research and laboratory use only and are not intended for human *in vivo* use.**

The Hamilton Chaney Adapter is a device that assures repetitive and identical syringe plunger location. It eliminates most user error when setting a syringe plunger at a specific volume.

Syringes with Built-in Chaney Adapters are shown below:

## 1000 Series Gastight<sup>®</sup> Syringes

| Model         | LTNCH | TLLCH | LTCH  |
|---------------|-------|-------|-------|
| 1001 (1 mL)   | 81318 | 81324 | —     |
| 1002 (2.5 mL) | 81418 | 81424 | 81403 |
| 1005 (5.0 mL) | 81518 | 81524 | —     |
| 1010 (10 mL)  | 81618 | 81624 | —     |

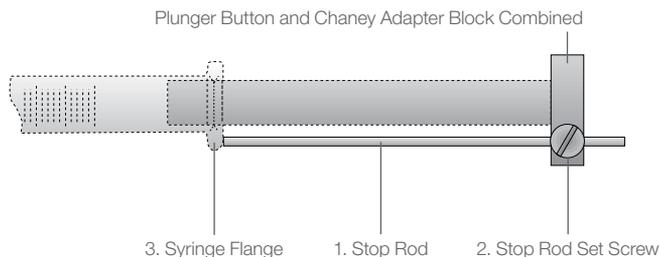
**Note: While a Chaney Adapter insures repetitive plunger placement, other conditions may affect sample volume delivery such as sample viscosity, syringe and needle size, temperature, rate of injection, syringe filling techniques, and the condition of the syringe. Also, the Chaney Adapter will not prevent plunger bending that may result from an improperly maintained syringe.**

## Operating the Chaney Adapter

### To set the volume:

1. Set and hold the plunger at the desired syringe volume.
2. Adjust the stop rod (1) to the predetermined volume by first loosening the stop rod set screw (2). Move the stop rod up or down so that it just contacts the syringe flange (3).
3. Tighten the stop rod set screw to secure the stop rod.

*Figure 1: Chaney Adapter Operation*



### To operate the preset Chaney Adapter follow these steps:

1. Hold the syringe barrel. While the needle is in the sample, pump the plunger several times. This will wet the plunger.
2. Overfill the syringe.
3. Push the plunger forward until the rod contacts the syringe flange.
4. Rotate the plunger so that the stop rod no longer contacts the syringe flange (there is a flat side on the flange) and push the plunger forward to dispense the syringe contents.

## Warranty Statement

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product which 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 products based on the published specifications of the products.

## 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 be determined to be hazardous.

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