

## Gastight<sup>®</sup> Instrument Syringes

Congratulations! You have purchased the finest quality precision fluid measuring device available today. We combine the highest quality materials with skilled workmanship, ensuring the highest possible performance level of every precision fluid device we manufacture. With proper care and handling, Gastight Instrument Syringes will provide years of use.

**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.**

Hamilton Gastight Instrument Syringes are precision, measuring instruments. For prolonged syringe life and to obtain the maximum benefits of use, a few helpful tips should be observed:

### Assured Accuracy and Precision

- When initially inserting a new plunger into a Gastight syringe barrel, wet (lubricate) the tip with deionized water or another solvent compatible with system fluid.
- For extended plunger tip life, minimize the use of a “dry” syringe.
- Every Gastight Instrument Syringe is handcrafted to ensure only the highest precision liquid transfers. Barrels and plungers within a given volume range are generally interchangeable and may be purchased separately for field repair and replacement.
- If the plunger is accidentally withdrawn completely from the syringe barrel, wipe it carefully with a lint-free tissue and re-wet it before reinserting into the barrel. Be careful of the plunger tip since any physical abrasions, scratches, or oil from one’s fingers may cause the plunger to leak once re-assembled.

### Cleaning

- The life of your Gastight syringe is directly related to its cleanliness!
- To clean syringes, it is best to use solvents known to be effective in solvating the system fluid.
- High quality grade water and acetone prove to be good rinses.
- It is recommended that the plunger not be removed from the barrel of an Instrument Syringe for cleaning. Precipitants can form a ring of contamination in the barrel at the end of the fill stroke. Moving the plunger past this ring can damage the tip.

### Pressure Parameters

Syringe Model	Pressure
1701, 1702, 1705, 1710	6.9 MPa (1000 psi)
1725	3.4 MPa (500 psi)
1750	4.8 MPa (700 psi)
1001, 1002, 1005, 1010	1.4 MPa (200 psi)
1025, 1050, 1100	0.7 MPa (100 psi)

## Temperature Parameters

- Operating: 10 – 40 °C (50 – 104 °F)
- Storage: -20 – 70 °C (-4 – 158 °F)
- Even though only the highest quality glass is used for Gastight syringe barrels, rapid changes in temperature should be avoided.

## 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 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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