

2. Syringe Series

For gas samples and heterogeneous liquids, there are four GASTIGHT syringe series from which to choose. For homogeneous liquid samples, there are five MICROLITER syringe series. Given the variety of syringe series available with MICROLITER and GASTIGHT plungers, an easy way to narrow down the list of series is to use delivery (or dispensing) volume as a discriminating factor. For the most accurate dispenses always choose a syringe that has a nominal volume as close to the dispense volume as possible.

For accuracy and precision, the smallest dispensing volume for a given syringe should be greater than or equal to 10% of its total capacity. For example, the smallest dispensing volume recommended for a 10 μL syringe is 1 μL . The following Syringe Type to Series Chart shows the volumes that each series is capable of dispensing within 10-100% of the syringes' nominal volume.

The Hamilton Syringe Type to Series Chart

