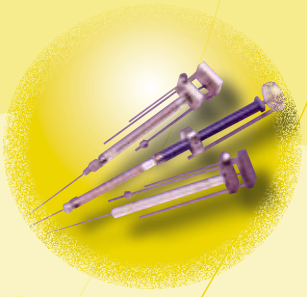
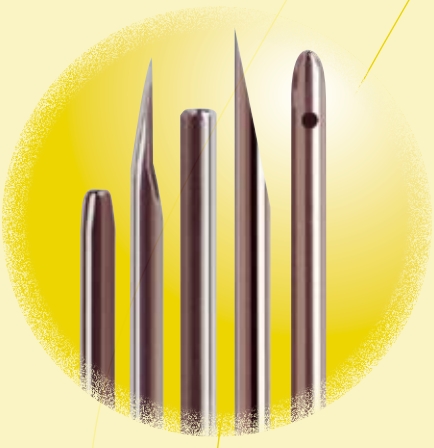
SERINGUES





Choix De La Seringue

CHOOSING THE RIGHT HAMILTON SYRINGE FOR YOUR APPLICATION

1 IS YOUR SAMPLE A GAS OR A LIQUID?

For a gas sample, use a GASTIGHT® syringe.

GASTIGHT 1000, 1700 and 1800 Series

10 µL to 100 mL
This type of syringe*, for use with liquids and gases, features a precision-machined TEFLON® PTFE plunger tip.

1000/1700 Series

- 1700 Series 10 µL to 500 µL
- 1000 Series 1 mL to 100 mL
- Also available: ground glass tip (luer tip, LT) or TEFLON® luer lock (TLL) terminations

1800 Series

- 10 µL to 250 µL
- Reinforced plunger prevents plunger blow-out and plunger bending
- Replaceable syringe barrels and plungers

For a liquid sample, choose between a MICROLITER™, MODIFIED MICROLITER™, or a GASTIGHT syringe.

MICROLITER 600, 700, 800 and 900 Series

2.5 µL to 500 µL
This type of syringe*, for use with liquids, incorporates a stainless steel plunger that is individually fitted to its matching syringe barrel. The plunger is not interchangeable or replaceable.

600 Series

- 2.5 µL and 5 µL
- Reinforced plungers prevent plunger bending
- Rugged, durable and long lasting

700 Series

- 5 µL to 500 µL
- Economical; great for chromotography
- Also available: ground glass tip (luer tip, LT) termination

800 Series

- 5 µL to 250 µL
- Reinforced plungers
- Plunger stop prevents plunger blow-out

900 Series

- 5 µL and 10 µL
- Reinforced plungers
- Perfect for students: rugged and durable

MODIFIED MICROLITER 7000 Series

0.5 µL to 5 µL
- Positive displacement syringe has a tungsten plunger wire that travels inside the needle
- The needle essentially acts as the glass syringe barrel; no dead volume
- Replaceable plunger wire and needle

All syringes are offered with cemented needles or removable needles unless otherwise noted.

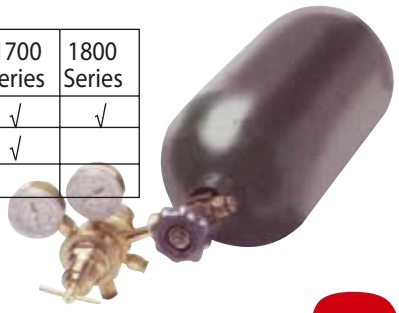
WHAT IS YOUR DISPENSE OR INJECTION VOLUME? 2

For a liquid sample:

Syringe size	600 Series	700 Series	800 Series	900 Series	7000 Series	1000 Series	1700 Series	1800 Series
0.5 µL - 5 µL					√			
2.5 µL - 5 µL	√							
5 µL - 10 µL				√				
5 µL - 250 µL		√	√					
10 µL - 250 µL							√	√
10 µL - 500 µL		√					√	
1 mL - 100 mL						√		

For a gas sample:

Syringe size	1000 Series	1700 Series	1800 Series
10 µL - 250 µL		√	√
10 µL - 500 µL		√	
1 mL - 100 mL	√		



WHICH TERMINATION WORKS BEST FOR YOUR APPLICATION? 3

- Cemented- not recommended for use with halogenated solvents, such as MeCl2; not autoclavable
- Removable- advantageous for laboratories with multiple users; economical since you can replace the needle without having to purchase a new syringe
- Luer Tip Cemented- ground glass tip with a cemented needle; not recommended for use with halogenated solvents, such as MeCl2; not autoclavable
- Luer Tip- ground glass tip can be used with most hypodermic needles; Kel-F® hub needles, TEFLON® tubing assemblies and connectors can also be used; offers flexibility
- TEFLON® Luer Lock- can be used with luer (Metal or Kel-F) hub needles, TEFLON® tubing assemblies and connectors can be used; offers flexibility
- Knurled Hub- replaceable needles; used only with the 7000 Series syringes

WHICH NEEDLE POINT STYLE WORKS BEST? 4

Point Style AS: special conical style needle point designed to withstand the demands of multiple injections; exclusively used on autosampler syringes

Point Style 2: beveled non-coring needle point recommended for septum penetration; only needle gauges 26s – 22 are recommended for optimum septum penetration

Point Style 3: blunt needle point for use with HPLC injection valves and for sample pipetting

Point Style 4: 10 – 12° beveled needle point recommended for life science applications; special point styles such as 12°, 30°, and 45° are available on request

Point Style 5: conical needle with side port for penetration of septa, thin-gauged vinyls and plastics without coring; minimizes septum damage

DO YOU NEED A RUGGED SYRINGE? 5

- **Syringe Guide** – easily installed on a syringe to prevent the plunger from bending or from being pulled out
- **Reproducibility (Chaney) Adapter –** easily installed on a syringe for consistent, reproducible injections; also prevents plunger damage
- **Reinforced Plungers –** Series 600, 800, 900 and 1800 syringes offer an extended barrel which prevents bent plungers

Seringues Spéciales

Super Syringes .5 L to 2 L

For air sampling, preparing gas standards; or calibrating reservoirs, pneumographs, and spirometers. Used in industries such as: mining, chemical production, grinding and mineral processing. Syringe barrel is made of a clear acrylic material.

Purge & Trap Syringes 5 mL and 25 mL

These syringes are designed for the analysis of drinking water samples according to EPA purge and trap concentration techniques.

Carbon Analyzer Syringes 50 µL to 250 µL

For water analysis with Total Organic Carbon (TOC) analyzers. Wetted parts are stainless steel and borosilicate glass. Syringes have a metal luer tapered hub cemented over a MICROLITER 700 Series N syringe. The luer hub fits precisely into the inlet of a total carbon analyzer.

PB600 Repeating Dispensers 10 µL to 10 mL

Consistently dispense sample up to 50 times with the push of a button. The repeating dispenser works with MICROLITER or GASTIGHT syringes from 10 µL to 10 mL.

Use this Syringe Volume	µL Per Dispense
10 µL	.2 µL
25 µL	.5 µL
50 µL	1 µL
100 µL	2 µL
250 µL	5 µL
500 µL	10 µL
1 mL	20 µL
1.25 mL	25 µL
2.5 mL	50 µL
5 mL	100 µL
10 mL	200 µL