700 Series Syringes

The 700 series MICROLITER™ syringes are the original HAMILTON syringes and are the standard liquid measuring devices throughout the world for precise delivery of liquids in the from 5 µl to 500 µl volume range. Steel plungers individually fitted into the borosilicate glass barrels guarantee the highest level of quality. The accuracy of these syringes is ± 1% of the nominal volume.

Typical applications are:

- Sample injection in gas chromatography (GC)
- Sample injection in HPLC valves
- Sample injection with automatic samplers from different manufacturers
- Thin layer chromatography (TLC)
- Everyday applications

Due to different coefficients of expansion of steel and glass, syringes with needles must not be heated above 50°C.
Due to the manufacturing process, the plungers and glass barrels are not interchangeable.

Tech Tip
Before each use, thoroughly inspect the syringe barrel for cracks, and the needle point for burrs.

Economical Tip
Syringes cost less in a Six Pack. The packaging container keeps syringes close at hand.

N Syringes

Ordering information	Needle length mm	Volume 5 µl Model 75 Gauge 26s	Volume 10 µl Model 701 Gauge 26s	Volume 25 µl Model 702 Gauge 22s	Volume 50 µl Model 705 Gauge 22s	Volume 100 µl Model 710 Gauge 22s	Volume 250 µl Model 725 Gauge 22s	Volume 500 µl Model 750 Gauge 22
N cemented needle pst2	51	87900	80300	80400	80500	80600	80700	80800
N cemented needle pst2	70		80350					
N cemented needle pst2	76		80384					
N cemented needle pst3	51	87919	80383	80465	80565	80665	80765	80865
N cemented needle pst5	51		80339					80839
SN cemented needle *	*	87908	80308	80408	80508	80608	80708	80808

* Specify needle gauge, length, point style and whether electro-tapered

RN Syringes

Ordering information	Needle length mm	Volume 5 µl Model 75 Gauge 26s	Volume 10 µl Model 701 Gauge 26s	Volume 25 µl Model 702 Gauge 22s	Volume 50 µl Model 705 Gauge 22s	Volume 100 µl Model 710 Gauge 22s	Volume 250 µl Model 725 Gauge 22s	Volume 500 µl Model 750 Gauge 22
RN removable needle pst2	51	87930	80330	80430	80530	80630	80730	80830
RN needle not included		7634-01	7635-01	7636-01	7637-01	7638-01	7639-01	7640-01

LT Syringes

Ordering information	Needle length mm	Volume 5 µl Model 75	Volume 10 µl Model 701	Volume 25 µl Model 702	Volume 50 µl Model 705	Volume 100 µl Model 710	Volume 250 µl Model 725	Volume 500 µl Model 750
LT Luer Tip Needle not included			80301	80401	80501	80601	80701	80801

Six Pack

Ordering information	Needle length mm	Volume 5 µl Model 75 Gauge 26s	Volume 10 µl Model 701 Gauge 26s	Volume 25 µl Model 702 Gauge 22s	Volume 50 µl Model 705 Gauge 22s	Volume 100 µl Model 710 Gauge 22s	Volume 250 µl Model 725 Gauge 22s	Volume 500 µl Model 750 Gauge 22
N Six Pack pst2	51		80366					
RN Six Pack pst2	51		80336					

700 Series Syringes

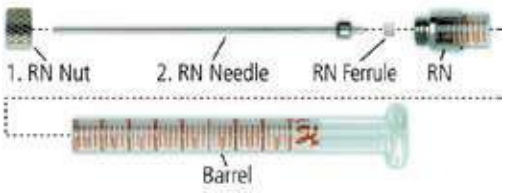
Accessories and Spare Parts

Ordering information

	75 5 µl	701 10 µl	702 25 µl	705 50 µl	710 100 µl	725 250 µl	750 500 µl
PB600 Repeating Dispenser			83700	83700	83700	83700	83700
Reproducibility (Chaney) Adapter	14700	14700	14725	14725	14725	14725	14725
Syringe Guide	14806	14806	14806	14906	14906	14906	14906
Needles							
RN nut	30902	30902	30902	30902	30902	30902	30902
Standard RN needles	7758-02	7758-02	7758-03	7758-03	7758-03	7779-03	7779-01
Standard N needles	90039	90039	90038	90038	90038	90038	90022
Standard KF needles	90139	90139	90138	90138	90138	90138	90122

Syringe Calibration Service

Add the prefix "CAL" in the beginning of the syringe part number.



Technical Specifications

Syringe type **Syringe capacity**	75 5 µl	701 10 µl	702 25 µl	705 50 µl	710 100 µl	725 250 µl	750 500 µl
Needle length (mm)	51	51	51	51	51	51	51
Needle gauge	26s	26s	22s	22s	22s	22s	22
Needle outer diameter (mm)	0.47	0.47	0.72	0.72	0.72	0.72	0.72
Needle inner diameter (mm)	0.13	0.13	0.15	0.15	0.15	0.15	0.41
Needle point style	2	2	2	2	2	2	2
Electro-tapered	Yes	Yes	Yes	Yes	Yes	Yes	No
Dead volume in needle (µl)	0.68	0.68	0.90	0.90	0.90	0.90	6.73
Scale length (mm)	54	54	60	60	60	60	60
Test pressure (MPa)	0.6	0.6	0.6	0.6	0.6	0.6	0.6