

1000 Series Syringes

The HAMILTON 1000 series syringes are gas and liquid tight and are available in volumes from 1 ml to 100 ml. The barrel is precision-manufactured from borosilicate glass. The plunger is made of PTFE coated aluminium and equipped with a precision PTFE seal. The flexibility of the seal allows the interchange of glass barrel and plunger between syringes of the same capacity. All parts in contact with the samples are made of inert materials such as glass and PTFE. These GASTIGHT[®] syringes have an accuracy of $\pm 1\%$ of the nominal volume.

Typical applications are:

- Use with Hamilton Diluters/Dispensers
- Use with Diluters/Dispensers third party instruments
- Use in analysers
- Pipetting of corrosive liquids
- Pipetting of gases (up to 0.6 MPa)
- Sample injection in GC, LC, TLC and Headspace



Tech Tip

Avoid variations in liquid measure due to body heat by grasping the syringe flange and plunger as you draw and dispense fluid.



Economical Tip

For labs with multiple applications it is recommended to buy a RN syringe without needle and separate RN needles according to the application.

LTN Syringes

Ordering information	Needle length mm	Volume 1000 μ l Model 1001 Gauge 22	Volume 1250 μ l Model 1001.25 Gauge 22	Volume 2500 μ l Model 1002 Gauge 22	Volume 5000 μ l Model 1005 Gauge 22	Volume 10000 μ l Model 1010 Gauge 22	Volume 25000 μ l Model 1025 Gauge 22	Volume 50000 μ l Model 1050 Gauge 22	Volume 100000 μ l Model 1100 Gauge 22
LTN cemented needle pst2	51	81317	82017	81417	81517	81617			
LTN cemented needle pst3	51	81316	82016	81416	81516	81616			
LTN cemented needle pst5	51	81343		81443	81543	81643			
LTSN cemented needle *	*	81314		81414	81514	81614			

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

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RN Syringes



Ordering information	Needle length mm	Volume 1000 µl Model 1001 Gauge 22	Volume 1250 µl Model 1001.25 Gauge 22	Volume 2500 µl Model 1002 Gauge 22	Volume 5000 µl Model 1005 Gauge 22	Volume 10000 µl Model 1010 Gauge 22	Volume 25000 µl Model 1025 Gauge 22	Volume 50000 µl Model 1050 Gauge 22	Volume 100000 µl Model 1100 Gauge 22
RN removable needle pst2	51	81330		81430	81530	81630			
RN removable needle pst3	51	81365							
RN needle not included		7649-01		7650-01	7651-01	7652-01			

LT Syringes



Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
LT Luer Tip Needle not included	81301	82001	81401	81501	81601			

TLL Instrument Syringes



Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
TLL without slots (Luer Lock) Needle not included	81320		81420	81520	81620	82520	85020	86020
TLL with slots (Luer Lock) Needle not included	81327		81427	81527	81627	82527	85027	
TLL without flange, without slots (Luer Lock) Needle not included						82521	85021	
TLL w/o flange with slots (Luer Lock) Needle not included						82525	85025	

TLL-XL Instrument Syringes



Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
TLL-XL without slots (Luer Lock) Needle not included	201812		201817	201822	201827			

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DX Instrument Syringes

Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
DX, Diluter with stop No needles available	81326							



C-Cheminert Instrument Syringes

Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
C-Cheminert No needles available	81360		81460	81560	81660			



C-XP Instrument Syringes

Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
C-XP No needles available	201760		201770	201780				



AD AccuDil® Instrument Syringes

Ordering information	Volume 1000ul Model 1001	Volume 1250ul Model 1001.25	Volume 2500ul Model 1002	Volume 5000ul Model 1005	Volume 10000ul Model 1010	Volume 25000ul Model 1025	Volume 50000ul Model 1050	Volume 100000ul Model 1100
AD, AccuDil® with stop No needles available	201200		201250	201300	201350	201400		
DAD, Diluter AccuDil® with stop No needles available	201700							



Syringe Calibration Service

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

1000 Series Syringes

Accessories

Ordering information	Volume 1000 µl Model 1001	Volume 1250 µl Model 1001.25	Volume 2500 µl Model 1002	Volume 5000 µl Model 1005	Volume 10000 µl Model 1010	Volume 25000 µl Model 1025	Volume 50000 µl Model 1050	Volume 100000 µl Model 1100
PB600 Repeating Dispenser	83700	83700	83700					
RN nut	30902	30902	30902	30902	30902	30902	30902	30902

Needles

RN needles	7779-01	7779-01	7779-01	7779-01	7779-01	7779-01	7779-01	7779-01
N needles	90022	90022	90022	90022	90022	90022	90022	90022
KF needles	90122	90122	90122	90122	90122	90122	90122	90122

Spare Parts

Ordering information	Volume 1000 µl Model 1001 Gauge 22	Volume 1250 µl Model 1001.25 Gauge 22	Volume 2500 µl Model 1002 Gauge 22	Volume 5000 µl Model 1005 Gauge 22	Volume 10000 µl Model 1010 Gauge 22	Volume 25000 µl Model 1025 Gauge 22	Volume 50000 µl Model 1050 Gauge 22	Volume 100000 µl Model 1100 Gauge 22
Plunger assembly LT/LTN/TLL	1359-01		1360-01	13230	13231	13271	13272	52343-01 ¹
Plunger assembly RN	1359-01		1360-01	13230	13231			
Plunger assembly TLLX	200920							
Plunger assembly C-XP	201765		201775	201785				
Plunger assembly TLL-XL	201815		201820	201825	201829			
Plunger assembly DX	1578-01							
Plunger assembly AD/DAD	201220		201270	201301	201370	13271		
Plunger assembly C	1359-01		1360-01	13291	13292			

¹ Consist of a spindle/tip assembly

Technical Specifications

	Syringe type Syringe capacity	1001 1 ml	1002 2.5 ml	1005 5 ml	1010 10 ml	1025 25 ml	1050 50 ml	1100 100 ml
Needle length (mm)		60	60	60	60	60	60	120
Needle gauge		22	22	22	22	-	-	-
Needle outer diameter (mm)		0.72	0.72	0.72	0.72	-	-	-
Needle inner diameter (mm)		0.41	0.41	0.41	0.41	-	-	-
Needle point style		2	2	2	2	-	-	-
Electro-tapered		No	No	No	No	-	-	-
Dead volume in needle (µl)		6.73	6.73	6.73	6.73	-	-	-
Scale length (mm)		51	51	51	51	-	-	-
Test pressure (MPa)		0.6	0.6	0.6	0.6	-	-	-
Max working temperature (°C)		50	50	50	50	50	50	50
Min working temperature (°C)		10	10	10	10	10	10	10