

Syringes

Hamilton 700 Series Microliter™ Syringes, 5μL - 500μL

- Cemented needles (N), removable needles (RN), or luer tip (LT)
- Plungers and syringe barrels are not interchangeable or replaceable
- Tight tolerances between the plunger and the barrel

Typical Operating Parameters

- Maximum temperature for cemented needle 50° C (122° F) and all others 115° C (239° F)
- Maximum pressure rating is 2,000 psi for 5μL to 100μL, all others are 1,000 psi.
- For use with liquids
- All syringes are autoclavable when disassembled except for the cemented needle (N) syringes



700 Series Ordering Information

	Volume	5μL	10μL	25μL	50μL	100μL	250μL	500μL
	Model	75	701	702	705	710	725	750
	Gauge**	26s	26s	22s	22s	22s	22s	22
N (Cemented Needle)		87900	80300	80400	80500	80600	80700	80800
	(**/2"/2)		80366, 6/pk					
N (Cemented Needle)		87919	80365	80465	80565	80665	80765	80865
	(**/2"/3)							
N (Cemented Needle)			80339	80439	80539	80639	80739	80839
	(**/2"/5)							
RN (Removable Needle) (Repl. needles on page 295)		87930	80330	80430	80530	80630	80730	80830
	(**/2"/2)		80336, 6/pk					
LT (Luer Tip) (Needle not included)			80301	80401	80501	80601	80701	80801
PB600 Repeating Dispenser (Syringe not included)				83700	83700	83700	83700	83700
Reproducibility (Chaney) Adapter (Syringe not included)		14700	14700	14725	14725	14725	14725	14725
Syringe Guide (Syringe not included)		14806	14806	14906	14906	14906	14906	14906
Digital Base Unit (Syringe calibrated to unit)			Add the prefix "DS" to the beginning of the syringe's part number. (Base unit not sold separately)					

*80365 is a 22s gauge

Syringes

Hamilton 7000 Series Modified Microliter™ Syringes, 0.5µL - 5µL




- Removable needles knurled hub (KH)
- Positive displacement syringe has a tungsten plunger wire that travels inside the needle
- Sample contained in the needle
- No dead volume



Typical Operating Parameters

- Maximum temperature 50° C (122°F)
- Maximum pressure rating is 6,000 psi
- For use with liquids
- Syringes are autoclavable when disassembled

7000 Series Ordering Information

	Volume	.5µL	.5µL	1µL	1µL	2µL	2µL	5µL
	Model	7000.50C	7000.5	7001	7101	7002	7102	7105
	Gauge**	32	25	25s	22s	25	23	24
KH (Knurled Hub)			86259	80135	86211	88411	88511	88011
	(**/2.75"/2)							
KH (Knurled Hub)		86257*	86250	80100	86200	88400	88500	88000
	(**/2.75"/3)							
Digital Base Unit		Add the prefix "DS" to the beginning of the syringe's part number.						
(Syringe calibrated to unit)		(Base unit not sold separately)						

* Needle length is 3.94", repair kit catalog number 86258, \$93.00.

7000 Series Repair Kits (Includes: KH needle, KH ferrule, plunger wire and instruction sheet)




Volume	.5µL (25 ga)		1µL (25s ga)		1µL (22s ga)		2µL (25 ga)		2µL (23 ga)		5µL (24 ga)	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
Point Style 2	17887		17888		17890		17891		17892		17893	
Point Style 3	17187		17188		17190		17191		17192		17193	

Syringes

Hamilton 900 Series Microliter™ Syringes, 5µL - 10µL

- Removable needles (RN) or cemented needle (N)
- Reinforced plunger

900 Series Ordering Information

	Volume	5µL	10µL
	Model	95	901
	Gauge**	26s	26s
N (Cemented Needle)		87920	80360
	(**/2"/2)		
RN (Removable Needle)		87925	80370
(Repl. needles on page 295)	(**/2"/2)		
Reproducibility (Chaney) Adapter		32148	32148
(Syringe not included)			



Syringes

Hamilton 800 Series Modified Microliter™ Syringes, 5μL - 250μL




- Removable needles (RN) or cemented needle (N)
- Reinforced plunger
- Plunger assemblies are replaceable
- Plunger stop prevents blowout

Typical Operating Parameters

- Maximum temperature for cemented needle 50° C (122° F) and removable needle 115° C (239° F)
- Maximum pressure rating is 2,000 psi except for 250μL which is 1,000 psi
- For use with liquids
- Syringes are autoclavable when disassembled except for cemented needle (N) syringes



800 Series Ordering Information

	Volume	5μL	10μL	25μL	50μL	100μL	250μL
	Model	85	801	802	805	810	825
	Gauge**	26s	26s	22s	22s	22s	22s
N (Cemented Needle)	 (**/2"/2)	84850	84852	84854	84856	84858	
RN (Removable Needle) (Repl. needles on page 295)	 (**/2"/2)	84851	84853	84855	84857	84859	84861
Reproducibility (Chaney) Adapter (Syringe not included)		32146	32146	32146	32146	32146	32146

800 Series Multi-Pak™ Syringes

- Contains one handle and a selection of syringe barrel/plunger combinations
- Removable needles



800 Series Multi-Pak™ Syringes Ordering Information

Cat. No.	Description	Price
84890	Syringe Multi-Pak™ Includes: (1) Handle, (1) Removable needle nut (1) of each: 10, 25, 50, 100, and 250μL RN syringe (6) Needles, 26s/2"/2 for 10-100μL syringes (6) Needles, 22s/2"/2 for 10-100μL syringes (6) Needles, 22s/2"/2 for 250μL syringes	

Syringes















Hamilton 1700 Series Gastight® Syringes, 10µL - 500µL

- Cemented needles (N, LTN), removable needles (RN), luer tip (LT), Teflon® luer lock (TLL) or Teflon® luer lock w/slots (TLL w/slots)
- Precision-machined Teflon® PTFE-tipped plungers
- Replaceable plungers

Typical Operating Parameters

- Maximum temperature for cemented needle 50° C (122° F) and removable needle 115° C (239° F)
- Maximum pressure is 500 psi for 250µL and 500µL, 250 psi for SampleLock Syringes, and all others are 1,000 psi
- For use with gases and liquids
- Syringes are autoclavable when disassembled except for cemented needle (N) syringes

1700 Series Ordering Information

	Volume Model Gauge**	10µL 1701 26s	25µL 1702 22s	50µL 1705 22s	100µL 1710 22s	250µL 1725 22s	500µL 1750 22
LT (Luer Tip) (Needle not included)		80001	80201	80901	81001	81101	81201
LTN (Cemented Needle)							81217
LTN (Cemented Needle)							81216
N (Cemented Needle)		80000	80200	80900	81000	81100	
N (Cemented Needle)		80075	80275	80975	81075	81175	
RN (Removable Needle) (Repl. needles on page 295)		80030	80230	80930	81030	81130	81230
RN (Removable Needle) (Repl. needles on page 295)		80065	80265	80965	81065	81165	81265
SampleLock Syringe				80956	81056	81156	81256
TLL (Teflon® Luer Lock) w/o slots (Needle not included)			80222	80920	81020	81120	81220
TLL with slots (Needle not included)				80927	81027	81127	81227
PB600 Repeating Dispensor (Syringe not included)		83700	83700	83700	83700	83700	83700
Reproducibility (Chaney) Adapter (Syringe not included)		14700	14725	14725	14725	14725	14725
Syringe Guide (Syringe not included)		14806	14906	14906	14906	14906	14906
Digital Base Unit (Syringe calibrated to unit)							

Add the prefix "DS" to the beginning of the syringe's part number.
(Base unit not sold separately)

TLL syringe plunger comes with stop

1700 Series Replacement Plungers

Volume Model	10µL 1701	25µL 1702	50µL 1705	100µL 1710	250µL 1725	500µL 1750
All Models*	13205	1122-01	1162-01	1162-02	1162-03	1169-01

* except TLL w/slots, 25µL syringe, replacement plunger comes with stop, catalog number 13269, \$32.50.



Syringes

Hamilton 1000 Series Gastight® Syringes, 1mL -100mL







- Cemented needles (N, LTN), removable needles (RN), luer tip (LT), Teflon® luer lock (TLL) or Teflon® luer lock w/slots (TLL w/slots)
- Precision-machined Teflon® PTFE-tipped plungers



Typical Operating Parameters

- Maximum temperature for cemented needle 50° C (122° F) and removable needle 115° C (239° F)
- Max pressure is 200 psi for 1mL to 10mL, all others are 100 psi
- For use with gases and liquids
- Syringes are autoclavable when disassembled except for cemented needle (N, LTN) syringes and SampleLock syringes

1000 Series Ordering Information

	Volume Model Gauge**	1mL 1001 22	2.5mL 1002 22	5mL 1005 22	10mL 1010 22	25mL 1025 22	50mL 1050 22	100mL 1100 22
LT (Luer Tip) (Needle not included)		81301	81401	81501	81601			
LTN (Cemented Needle)		81317	81417	81517	81617			
	(**/2"/2)							
LTN (Cemented Needle)		81316	81416	81516				
	(**/2"/3)							
LTN (Cemented Needle)		81343	81443	81543				
	(**/2"/5)							
RN (Removable Needle) (Repl. needles on page 295)		81330	81430	81530	81630			
	(**/2"/2)							
RN (Removable Needle) (Repl. needles on page 295)		81365						
	(**/2"/3)							
SampleLock Syringe		81356	81456	81556	81656	86326	86336	86346
	(**/2"/2)							
TLL (Teflon® Luer Lock) w/o slots (Needle not included)		81320	81420	81520	81620	82520	85020	86020
TLL with slots (Needle not included)		81327	81427	81527	81627	82527	85027	
PB600 Repeating Dispensior (Syringe not included)		83700	83700					

TLL male luer fitting is made of Kel-F material

1000 Series Replacement Plungers (Same for all syringe terminations)

Volume	1mL Cat. No.	2.5mL Cat. No.	5mL Cat. No.	10mL Cat. No.	25mL Cat. No.	50mL Cat. No.
	1359-01	1360-01	13230	13231	13271	13272

Syringes

Hamilton 1800 Series Gastight® Syringes, 10µL -250µL

- Cemented needles (N) or removable needles (RN)
- Precision-machined Teflon® PTFE-tipped plungers
- Reinforced plungers
- Plunger assemblies are replaceable

Typical Operating Parameters

- Maximum temperature for cemented needle 50° C (122° F) and removable needle 115° C (239° F)
- Max pressure is 1,000 psi for all volumes except for 250µL which is 500 psi
- For use with gases and liquids
- Removable needle syringes are autoclavable when disassembled



1800 Series Ordering Information

	Volume	10µL	25µL	50µL	100µL	250µL
	Model	1801	1802	1805	1810	1825
	Gauge**	26s	22s	22s	22s	22s
N (Cemented Needle)		84875	84878	84881	84884	84887
	(**/2"/2)					
RN (Removable Needle)		84877	84880	84883	84886	84889
(Repl. needles on page 295)	(**/2"/2)					
Reproducibility (Chaney) Adapter		32146	32146	32146	32146	32146
(Syringe not included)						



Replacement Needles For All Hamilton RN and Hub Syringes

Removable Needles



For 2.5 - 100µL Syringes



For 250µL - 10mL Syringes

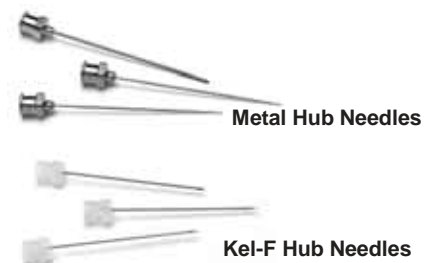
Gauge	Point Style 2		Point Style 3		Point Style 5		Point Style 2		Point Style 3		Point Style 5	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
26s	7758-02		7768-01		7784-07		7779-02		7780-01		7784-03	
26	7758-04		7768-02		7784-08		7779-04		7780-02		7784-04	
22s	7758-03		7770-01		7784-05		7779-03		7780-03		7784-01	
22	7758-01		7770-02		7784-06		7779-01		7780-04		7784-02	

Hub Needles

Metal Hub (N)

Kel-F Hub (KF)

Gauge	Point Style 2		Point Style 3		Point Style 2		Point Style 3	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
26s	90039		91039		90139		90539	
22s	90038		91038		90138		90534	
22	90022		91022		90122		90134	



Syringes

Hamilton Syringes for Agilent GC Instrumentation



			HP 7683/HP 7673						HP 7670,7671,7672	
			 ASN Autosampler Cemented Needle			 ASRN Autosampler Removable Needle			 N Cemented Needle	 RN Removable Needle
Model	Volume	Gauge/Length/ Point Style	23s	26s	23s-26s	23s	26s	23s-26s	26s	26s
Microliter™ Syringes										
7000.5	.5μL	x/1.71"/HP	-	-	-	86276	86274	-	-	-
7001	1μL	x/1.71"/HP	-	-	-	80176	80175	-	-	-
75	5μL	x/1.71"/HP	87987	87988	87993	87957	87958	87959	-	-
75, 6/pk	5μL	x/1.71"/HP	87990	87989	87994	-	-	-	-	-
75	5μL	x/1.71"/2	87991	87992	-	-	-	-	87900**	-
75	5μL	x/2.22"/HP*	87945	87946	-	-	-	-	-	-
701	10μL	x/1.71"/HP	80387	80388	80393	80357	80358	80359	-	-
701, 6/pk	10μL	x/1.71"/HP	80390	80389	80391	-	-	-	-	-
701	10μL	x/1.71/2	80398	80399	-	-	-	-	-	-
701	10μL	x/2"/2	-	-	-	-	-	-	80300	80338
701, 6/pk	10μL	x/2"/2	-	-	-	-	-	-	80366	-

GasTight® Syringes

175	5μL	x/1.71"/HP	80074		80076			80086		
175, 6/pk	5μL	x/1.71"/HP	80090		80092					
1701	10μL	x/1.71"/HP	80080		80079	80087	80088	80089		
1701, 6/pk	10μL	x/1.71"/HP	80094		80096					
1701	10μL	x/2"/2							80000	80011





* For Jade™ valve

** 26s/2"/2









Syringes

Hamilton Syringes for Instrumentation

Syringes for GC Instrumentation

Manufacturer		Syringe Model	Volume (μL)	Gauge/Length/ Point Style	Cat. No.	Price
Carlo Erba	A200S	701SN	10	25s/2"/2	80320	
	AS800	701SN	10	26s/3.15"/AS	80318	
	AS800	1002LTSN	2.5mL	22/2"/5	81443	
CTC/Leap	A200S	701SN	10	25s/2"/2	80320	
		701N	10	26s/2"/2	80300	
		701N	10	26s/2"/5	80339	
Perkin Elmer	Autosystem	75ASN/PE	5	.47mm/2.756"/3	88040	
		75ASN/PE	5	.63mm/2.756"/3	88035	
Shimadzu	AOC9	75RN	5	26s/51mm/2	87930	
		701RN	10	26s/51mm/2	80330	

Syringes for LC Instrumentation

Manufacturer		Syringe Model	Volume	Gauge/Length/ Point Style	Cat. No.	Price
Agilent	1090A	1702RN	25μL	w/o needle	80230	
		1725RN	250μL	w/o needle	81130	
CTC/Leap	A200LC/HTS PAL	701N	10μL	22s/2"/3	80365	
Gynkotek	Gina	1702RN	25μL	22s/2"/2	80230	
		1725RN	250μL	22s/2"/2	81130	
Hitachi	L-7200/L-7250 AS2000/AS4000	1750SPEC	500μL		0160310	
Kontron	460	1710AD	100μL		201050	
Perkin Elmer	Series 200	1705CX	50μL		80962	
		1725CX	250μL		81162	
		1750CX	500μL		81262	
		1001C	1.0mL		81360	
		1002C	2.5mL		81460	
Sedere	Sedex 100	705N	50μL	22s/2"/2	80500	
Shimadzu	SIL6A	1710RN	100μL	w/o needle	81030	
Thermo	SP8780/8875/8880	1750C	500μL		81260	
		1002C	2.5mL		81460	
	SpectraSeries/ AS1000/AS3000	1725CX	250μL		81162	
		1750CX	500μL		81262	
		1001C	1mL		81360	
		1002C	2.5mL		81460	
Varian	9090	1710C	100μL		81060	
		1001C	1mL		81360	
Waters	WISP	1702	25μL		80020	
		1725	250μL		80024	

Syringes

Hamilton HPLC Manual Injection Syringes



Syringes for Rheodyne Injection Valves

Volume	MICROLITER 700SNR Fixed Needle		GASTIGHT 1700N Fixed Needle Small Bore		GASTIGHT 1700NR Fixed Needle Large Bore		GASTIGHT Removable Needle		Replacement Needles, 6/pk Small Bore		Replacement Needles, 6/pk Large Bore	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
10µL	80365						80065		7770-01		7770-02	
25µL	80465		80275		80285		80265		7770-01		7770-02	
50µL	80565		80975		80985		80965		7770-01		7770-02	
100µL	80665		81075		81085		81065		7770-01		7770-02	
250µL	80765		81175		81185		81165		7780-03		7780-04	
500µL	80865				81216		81265		7780-03		7780-04	
1mL					81316		81365		7780-03		7780-04	
2.5mL					81416							
5.0mL					81516							



Waters® U6K Injection Valve

Volume	MICROLITER 800RNW (25s/1.97"/3)		GASTIGHT 1700RNW (25s/1.97"/3)		GASTIGHT 1800RNW (25s/1.97"/3)		Replacement Needles, 6/pk		Volume	GASTIGHT 1700RNCP (25s/1.97"/3)		Replacement Needles, 6/pk	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price		Cat. No.	Price	Cat. No.	Price
10µL	84815								25µL	80231		7787-01	
25µL	84816		80238		84980		8647-01		50µL	80931		7787-01	
50µL	84817		80938		84983		8647-01		100µL	81031		7787-01	
100µL	84818		81038		84986		8647-01		250µL	81131		7787-02	
250µL	84819		81138		84989		8648-01		500µL	81231		7787-02	
									1mL	81331		7787-02	

Valco® VISF-1

Syringes

Hamilton HPLC Manual Injection Syringes

“C” Syringes



The “C” Syringes incorporate a male 1/4-28 threaded hub for direct attachment to Hamilton valves, instruments, or other units where threaded, leak-free connection is required.



Syringe Cleaner

- Clean 7000 Series Modified Microliter syringes with only heat (370° C) or add a vacuum source (.1mm mercury) to remove suspected residuals
- Microliter and GasTight syringes may be cleaned when a voltage rheostat is added to reduce the chamber temperature to 50° C; a vacuum source (.1mm mercury) can be added to remove suspected particles
- Not effective for frozen plungers or plugged needles

Cat. No.	Description	Price
81060	1710 C 100µL Syringe	
81160	1725 C 250µL Syringe	
81260	1750 C 500µL Syringe (SP8780/8880)	
81360	1001 C 1mL Syringe	
81460	1002 C 2.5mL Syringe (SP8780/8880)	
81560	1005 C 5mL Syringe	

Cat. No.	Description	Price
76610	Syringe Cleaner	

Waters Priming Syringes



Priming syringe for the 6000, 6000A, 501, 510, 590, 610 and 610E pumps. Designed for maximum safety with a metal flange and hub. Syringe has a Teflon tipped plunger and is pressure tested to 700 psi.

Cat. No.	Description	Price
81610	10mL Priming syringe 1010W	

GC Syringe Pack



1-7001KH-1µL Syringe
1-701N-10µL Syringe
1-1702N-25µL Gastight Syringe

Cat. No.	Description	Price
80380	GC Syringe pack	



Needle Cleaning Kit

- Contains a selection of various diameter tungsten wires for clearing plugged needles
- Biodegradable cleaning concentrate helps to remove tenacious residues

Cat. No.	Description	Price
76620	Needle Cleaning Kit, Includes: cleaning wires (listed below) and 70mL of cleaning concentrate	
18311	Cleaning concentrate, 500mL	

On-Column GC Injection Syringes

- Maximum operating temperature: 360° C

RN Fused Silica Needle Syringe for 0.2 - 0.25mm ID Column

Cat. No.	Volume	OD/Length/Point Style	Price
87402	10µL	.17mm/10cm/3, Microliter	
80331	10µL	.17mm/11.5cm/3, Microliter	
87404	10µL	.17mm/10cm/3, GasTight	

Stainless Steel Needle Syringe for 0.28 - 0.35mm ID Column

86257	.5µL	.23mm/10cm/3, Microliter	
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Cleaning Wires Included:

Cat. No.	Wires, 7" length	Unit	Cleans Gauges	Price
18306	.00300" OD	10	23s, 26s, 31-33	
18300	.00350" OD	10	26s, 31-33	
18301	.00497" OD	10	22s, 25s, 28-30	
18302	.00659" OD	10	27	
18303	.00815" OD	10	24-26	
18304	.01207" OD	10	22, 23	

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