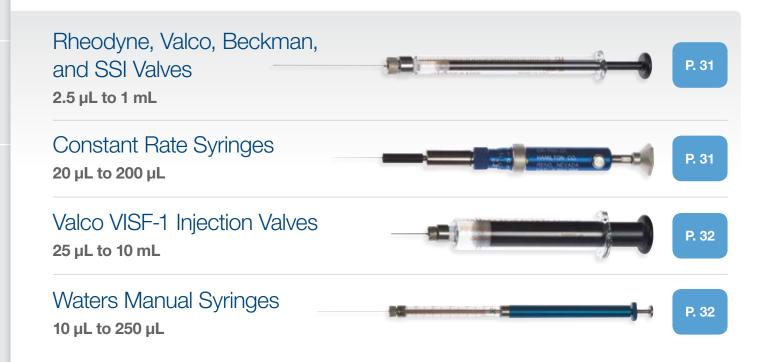


Manual HPLC Syringes

HPLC syringes are specifically designed for manual or automatic injection into high pressure ports. The needle is blunt and electro-polished to slide smoothly into the injection port, reducing the wear on critical seals. The selection of the appropriate syringe for HPLC applications takes the following three aspects into account: the type of injection valve, the sample properties,

and the injection volume. The volume of the syringe should be selected based on the volume and type of injection. In partial loop filling, the injection volume should not be greater than half of the loop capacity. In complete loop filling, where the loop size sets the injection volume, the syringe capacity should be greater than twice the loop volume.





Rheodyne, Valco, Beckman, and SSI Valves

Syringes for Rheodyne, Valco, Beckman, and SSI Valves. These syringes are available in Cemented Needle (N), Luer Tip Cemented Needle (LTN), and Removable Needle (RN) terminations. For more details on the terminations see page 12. The needles in this section are 51 mm in length and are point style 3.

Removable Needle (RN)



P/N	Volume	Series	Gauge
87942	2.5 μL	600	22s ga
87943	5 μL	600	22s ga
80065	10 μL	1700	22s ga
80265	25 μL	1700	22s ga
80965	50 μL	1700	22s ga
81065	100 μL	1700	22s ga
81165	250 μL	1700	22 ga
81265	500 μL	1700	22 ga
81365	1 mL	1000	22 ga

Cemented Needle (N)



P/N	Volume	Series	Gauge
80365	10 μL	700	22s ga
80465	25 μL	700	22s ga
80275	25 μL	1700	22s ga
80565	50 μL	700	22s ga
80975	50 μL	1700	22s ga
80985	50 μL	1700	22 ga
80665	100 μL	700	22s ga
81075	100 μL	1700	22s ga
81085	100 μL	1700	22 ga
80765	250 μL	700	22 ga
80865	500 μL	700	22 ga

Luer Tip Cemented Needle (LTN)



P/N	Volume	Series	Gauge
81175	250 μL	1700	22s ga
81185	250 μL	1700	22 ga
81216	500 μL	1700	22 ga

Constant Rate Syringes

The CR700 Constant Rate Syringes have preset volumes that can be dispensed at a constant flow rate. The volume is adjustable with a precisely adjustable micrometer screw. The adjusted volume can be fixed with a locking ring. Reproducible injection speed is obtained by means of a spring. The sample is delivered by pressing the push button. Constant Rate Syringe needles are 51 mm in length and point style 3.





CHROMATOGRAPHY AND ANALYSIS SYRINGES | MANUAL HPLC SYRINGES

Valco VISF-1 Injection Valves

Syringes for Valco VISF-1 Injection Valves. These syringes have the Removable Needle (RN) termination. For more details on the terminations see page 12. The needles in this section are 19 mm in length and are point style 3.





Waters Manual Syringes

Gastight and Microliter series syringes come with a 25s gauge, 50 mm removable needle to work with the Waters U6K HPLC valve.





Part number 84891 is a kit that consists of a 10, 25, 50, 100, and 250 µL 800 series barrel/plunger assemblies, holder assembly, six-pack (25s/50 mm/3) small hub needles, and six-pack (25s/50 mm/3) large hub needles.

Part number 81610 is a 10 mL TLL syringe used for priming Waters syringes which can be used with 90149 Kel-F Hub Needles or 90049 Metal Hub Needles.



Point 3 Point 4

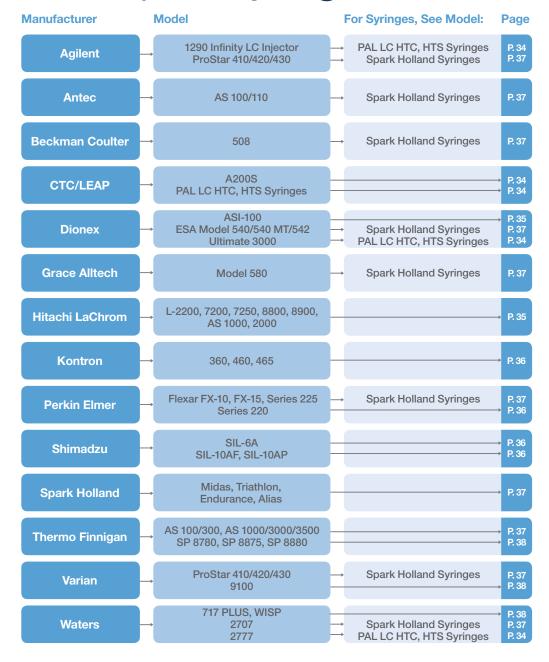
Point 5 Point AS



HPLC Autosampler Syringes

HPLC autosamplers enable the automatic introduction of samples into the sample loop as well as some sample preparation. Automatic injection has become very common, as it provides improved reproducibility and speed. Hamilton offers a wide range of HPLC autosampler syringes.

The features of the autosampler syringes are adapted for an exact fit to a specific autosampler.





CTC LEAP Syringes

A200S

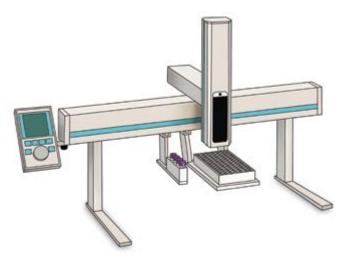


CTC PAL Syringes

PAL LC HTC, HTS

CTC PAL® autosamplers are one of the most popular sample injection systems for HPLC analyses. Customers rely on its ability to sample from many different vial and well types and on its ultimate platform flexibility. The syringe is at the heart of every injection that the LC PAL® system performs, and CTC chose Hamilton to provide this critical component.

This section has syringes for PAL LC instruments. This section also includes syringes for Agilent, Dionex, and Waters as these instruments are a private label for CTC.



S-Line Syringes

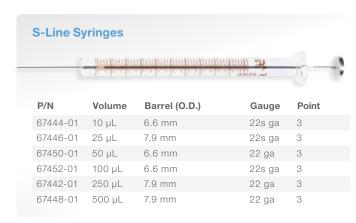
S-Line syringes are the cost-effective choice for CTC PAL autosampler applications. It incorporates a precision-machined PTFE plunger tip which creates a leak-free seal. With the tight fit in the glass barrel, the tip wipes the interior of the syringe barrel free of sample, minimizing sample carryover.

C-Line Syringes

C-Line syringes incorporate several unique design features that ensure superior performance. The unique flange alignment design aids in installation and results in fewer bent needles while the plunger button can be adjusted to prevent plunger tip damage. An innovative direct attachment design of the needle to the barrel minimizes sample carryover.

X-Type Syringes

X-Type syringes have a near zero carryover and a long-lasting plunger tip to meet the requirements of sensitive, high-throughput life science applications. The syringe glass barrel is polished and coated for chemical inertness and enhanced lifetime. The needle is deactivated and coated to reduce sample adsorption.





CTC PAL Syringes (Cont.)



P/N	Volume	Barrel (O.D.)	Gauge	Point
203073*	10 μL	6.6 mm	22s ga	3
203194	10 μL	6.6 mm	22s ga	3
203274	25 μL	6.6 mm	22s ga	3
203075	25 μL	7.9 mm	22s ga	3
203077	100 μL	6.6 mm	22s ga	3
203235	100 μL	6.6 mm	22 ga	3
203079	250 μL	7.9 mm	22 ga	3
203349	500 μL	7.9 mm	22 ga	3
203081**	1 mL	7.6 mm	22 ga	3
203083**	2.5 mL	9.65 mm	22 ga	3
203085**	5 mL	13.6 mm	22 ga	3
*This aveings is a Misrelitar Cyrings				

^{*}This syringe is a Microliter Syringe.

X-Type Syringes



	P/N	Volume	Barrel (O.D.)	Gauge	Point
	204475	25 μL	7.9 mm	22s ga	3
	204379	50 μL	7.9 mm	22s ga	3
	204452	100 μL	6.6 mm	22s ga	3
	204400	100 μL	6.6 mm	22 ga	3
	202668*	100 μL	6.6 mm		

^{*} This part number is a Removable Needle (RN) termination.

Dionex Gina Syringes

ASI-100



Removable Needle (RN)



P/N	Volume
7654-01 (no needle included)	25 μL
7657-01 (no needle included)	250 μL

Hitachi LaChrom Syringes

L-2200, L-7200, L-7250, L-8800, L-8900, AS1000, AS2000



Special Termination



P/N	Volume
0160310	500 μL



^{**}These syringes are a Luer Tip Cemented Needle (LTN) termination.

Kontron HPLC Syringes





360, 460, 465

Perkin Elmer Syringes

SERIES 220



ChemSe	al (C)		
	OASTICUE M 1750	25 M	
P/N		Volume	
80962		50 μL	
81062		100 μL	
81162		250 μL	
81262		500 μL	
81360		1 mL	
81460		2.5 mL	

Shimadzu Syringes

SIL-6A





Shimadzu Syringes

SIL-10AF, SIL-10AP







Spark Holland Syringes

This section has syringes for Spark Holland instruments. This section also includes syringes for Agilent, Antec, Beckman, Dionex, Grace Alltech, Perkin Elemer, Varian, and Waters as these instruments are a private label for Spark Holland.











Midas

Triathlon

Endurance

Thermo Finnigan Syringes

AS100/300, AS1000/3000/3500



ChemSeal (C)

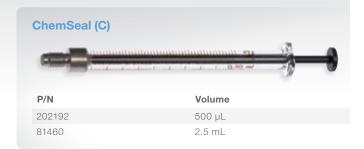
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	0-11-11-11-11-11-11-11-11-11-11-11-11-11	111030 av	-9	-
P/N		Volume		
81162		250 μL		
81262		500 μL		
81360		1 mL		
81460		2.5 mL		



Thermo Finnigan Syringes

SP 8780, SP 8875, SP 8880





Varian Syringes





Waters Syringes 717 PLUS, WISP





