

Needle & Syringe Selection Guides

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Needle Point Styles

Several different needle point styles are offered on Hamilton syringe and needle products depending on the application. Syringes and needles manufactured by Hamilton Company are intended for scientific research and laboratory use only and are not intended for human in vivo use.

Point Style 2 ①

Beveled, non-coring needle point recommended for septum penetration.

Point Style 3 ②

Blunt needle point for use with HPLC injection valves and for sample pipetting.

Point Style 4 ③

10° to 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 ④

Conical needle with side port for penetration of septa, thin-gauged vinyls and plastics without coring.

Point Style AS ⑤

Special conical style needle point used exclusively on autosampler syringes.

Syringe Terminations

Syringe terminations are offered in a number of different configurations designed to accommodate a broad range of applications.

From cemented to removable needles, and luer taper/TEFLON® luer lock to special syringe fittings, syringe barrel terminations serve a key function at the interface of a syringe and its mating connection.

N, Cemented Needle ⑥

Needles are cemented into the glass syringe barrel at a point corresponding to the zero graduation mark; not autoclavable.

LTN, Luer Tip Cemented Needle ⑦

Needles are cemented into the glass syringe barrel at a point corresponding to the zero graduation mark; not autoclavable.

RN, Removable Needle ⑧

Removable needles seat precisely to the zero graduation mark of the syringe; autoclavable when disassembled. Allows the use of different specification needles on the same syringe barrel.

LT, Luer Tip ⑨

Ground glass syringe barrel with a male luer taper accepts most hypodermic needles; autoclavable when disassembled. Use Kel-F hub needles and connectors for a tight seal.

KH, Knurled Hub ⑩

Removable needle, knurled hub is used on 7000 Series syringes, exclusively; autoclavable when disassembled. Knurled hub enables 6000 psig maximum injection pressures and the attachment of a spacer for repeatable depth injections.

CA, Carbon Analyzer ⑪

Special male luer tapered hub is cemented on the syringe barrel; not autoclavable. Used with TOC (total organic carbon) analyzers.

SL, SampleLock™ ⑫

On/Off syringe valve with RN needle is cemented to a syringe barrel; not autoclavable. Used for headspace, environmental sample collection and storage, pre-pressurization of gaseous samples for GC analysis, and sample spiking.

TLL, TEFLON® Luer Lock (with or without slots) ⑬

Male luer taper with nickel-plated brass hub accepts, and locks in place, luer hub needles and connectors; autoclavable when disassembled. Used with Hamilton diluters/dispensers, in OEM applications and in manual operations.

C, Chem ⑭

1/4-28 UNF male fitting; autoclavable. Used in low volume applications where system dead volume needs to be minimized.

AD, ACCUDIL™ ⑮

M8 x 0.75, male fitting; not autoclavable. Used with MICROLAB 1000 PLUS diluter/dispenser.

DX, Diluter ⑯

TLL, TEFLON® Luer Lock, male fitting with M6 x 1 female, side port; autoclavable. Used with MICROLAB 500 Series diluters.

DAD, Diluter ACCUDIL™ ⑰

M8 x 0.75 male fitting with M6 x 1 side port; not autoclavable. Used with MICROLAB 1000 PLUS diluter.

