

PAL System GC PAL / PAL GC-xt and Combi PAL / PAL Combi-xt

Gas Chromatography Autosampler Syringes Product Datasheet



S-Line Syringes are Built for Speed

Fast injection speeds in gas chromatography (GC) analyses put considerable stress on syringe plungers. As plungers wear, the stresses increase — leading to broken syringes, unnecessary downtime, and wasted money when samples cannot be analyzed. Hamilton syringes employ a fitting process that precisely fits each plunger to the matching barrel. This produces a plunge with minimal drag force and optimal wear characteristics that results in superior up time for the autosampler.

C-Line Design Eliminates Installation Errors

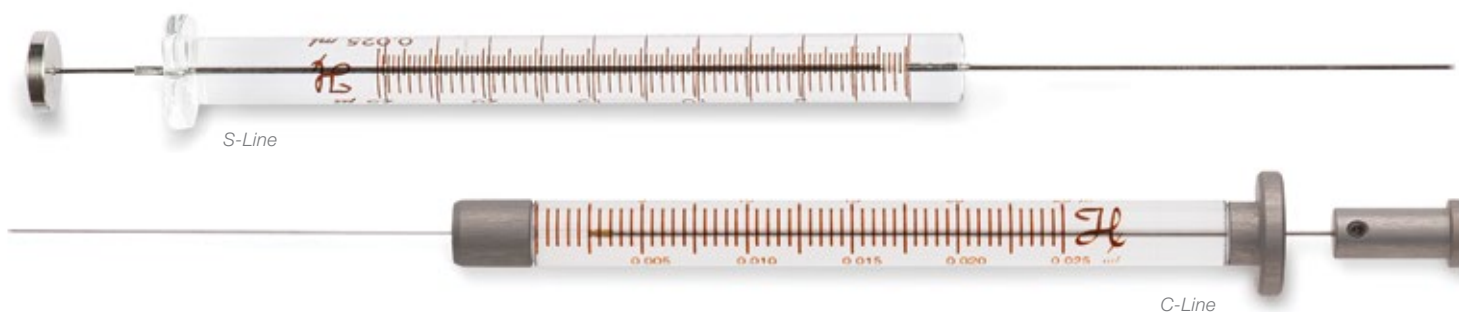
CTC Analytics analyzed service calls for broken syringes and discovered that installation errors were a major contributor to broken plungers. The C-Line syringe was developed with a unique plunger and flange design that ensures reliable installation and alignment of the plunger and barrel.

C-Line Termination Improves Solvent Compatibility

Some GC applications require the use of solvents which over time can weaken the cement on S-Line syringes resulting in shorter syringe life. The C-Line termination eliminates this possibility, extending the syringe life for these applications.

Benefits of choosing Hamilton for your GC analyses:

- Designed to ensure perfect PAL System autosampler compatibility
- Economically designed to give incredible value at an affordable price
- Manufactured to strict tolerances for reproducible results from injection to injection
- Wider solvent range capability for more applications
- New flange alignment design results in fewer bent needles
- Direct needle-to-barrel connection minimizes volume and carryover



S-Line

C-Line

Why use the World Famous Hamilton Syringe in your PAL System GC PAL Autosampler?

- Innovative attachment design of the needle to the barrel reduces carryover and ghost peaks
- Unique fitting process custom fits each plunger to the matching barrel to reduce drag force
- Built to CTC Analytics' specifications



Unique flange design for accurate syringe installation
Adjustable button to prevent plunger tip damage



Improved needle hub design for zero carryover
Color-coded hub for quick needle volume identification

S-Line Syringe Ordering Information

Volume	VWR Catalog No. S-Line	Syringe Type	Description	Gauge	Point Style
5 µL	89498-960	Microliter	Model 75 N CTC SYR (6.6 mm)	26s	AS
10 µL	89498-962	Gastight	Model 1701 N CTC SYR (6.6 mm)	23s	AS
10 µL	89498-964	Microliter	Model 701 N CTC SYR (6.6 mm)	26s	AS
10 µL	89498-966	Microliter	Model 701 SN CTC SYR (6.6 mm)	23s	AS
25 µL	89498-968	Gastight	Model 1702 N CTC SYR (7.9 mm)	23	AS
100 µL	89498-970	Gastight	Model 1710 N CTC SYR (6.6 mm)	23	AS

*All syringes listed feature a Cemented Needle (N) termination.

C-Line Syringe Ordering Information

Volume	VWR Catalog No. C-Line	VWR Catalog No. Custom C-Line	Syringe Type	Description	Gauge	Point Style
1.2 µL	89173-278	–	Microliter	Model 7701.2 KH CTC SYR (6.6 mm)	26	AS
5 µL	89173-280	89173-290	Microliter	Model 75 FN CTC SYR (6.6 mm)	26s	AS
10 µL	–	89173-304	Gastight	Model 1701 SFN CTC SYR (6.6 mm)	Custom	Custom
10 µL	89173-286	–	Microliter	Model 701 FN CTC SYR (6.6 mm)	23s	2
10 µL	89368-702	89173-292	Microliter	Model 701 FN CTC SYR (6.6 mm)	23s	AS
10 µL	89173-284	–	Microliter	Model 701 FN CTC SYR (6.6 mm)	26s	AS
10 µL	89173-288	–	Microliter	Model 701 FN CTC SYR (6.6 mm)	26s	2
10 µL	10118-414	–	Microliter	Model 701 FN CTC SYR, C-Line	23s – 26s	AS
25 µL	89173-296	89173-306	Gastight	Model 1702 FN CTC SYR (6.6 mm)	26s	AS
25 µL	89173-294	–	Gastight	Model 1702 FN CTC SYR (7.9 mm)	26s	AS
100 µL	89173-298	89173-310	Gastight	Model 1710 FN CTC SYR (6.6 mm)	26s	AS
250 µL	89173-300	89173-312	Gastight	Model 1725 FN CTC SYR (7.9 mm)	26	AS
500 µL	89173-302	89368-704	Gastight	Model 1750 FN CTC SYR (7.9 mm)	26	AS

*All syringes listed feature a Fixed Needle (FN).



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