

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

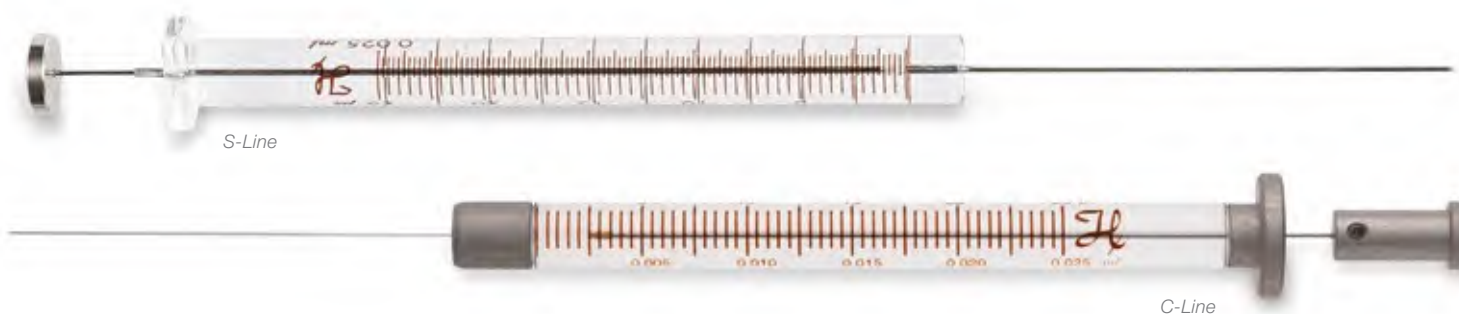
CTC Analytics analyzed service calls for broken syringes and discovered that installation errors were a major contributor to broken plungers. The C-Line syringe was developed with a unique plunger and flange design that ensures reliable installation and alignment of the plunger and barrel.

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



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	Hamilton P/N S-Line	Syringe Type	Description	Gauge	Point Style
5 µL	67436-01	Microliter	Model 75 N CTC SYR (6.6 mm)	26s	AS
10 µL	67454-01	Gastight	Model 1701 N CTC SYR (6.6 mm)	23s	AS
10 µL	67440-01	Microliter	Model 701 N CTC SYR (6.6 mm)	23s	AS
10 µL	67438-01	Microliter	Model 701 N CTC SYR (6.6 mm)	26s	AS
25 µL	67430-01	Gastight	Model 1702 N CTC SYR (7.9 mm)	23	AS
100 µL	67434-01	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	Hamilton P/N C-Line	Hamilton P/N Custom C-Line	Syringe Type	Description	Gauge	Point Style
1.2 µL	203185	—	Microliter	Model 7701.2 KH CTC SYR (6.6 mm)	26	AS
5 µL	203189	203197	Microliter	Model 75 FN CTC SYR (6.6 mm)	26s	AS
10 µL	—	203206	Gastight	Model 1701 SFN CTC SYR (6.6 mm)	Custom	Custom
10 µL	203363	—	Microliter	Model 701 FN CTC SYR (6.6 mm)	23s	2
10 µL	203361	203198	Microliter	Model 701 FN CTC SYR (6.6 mm)	23s	AS
10 µL	203205	—	Microliter	Model 701 FN CTC SYR (6.6 mm)	26s	AS
10 µL	203072	—	Microliter	Model 701 FN CTC SYR (6.6 mm)	26s	2
10 µL	203362	—	Microliter	Model 701 FN CTC SYR, C-Line	23s – 26s	AS
25 µL	203074	203209	Gastight	Model 1702 FN CTC SYR (6.6 mm)	26s	AS
25 µL	203043	—	Gastight	Model 1702 FN CTC SYR (7.9 mm)	26s	AS
100 µL	203076	203226	Gastight	Model 1710 FN CTC SYR (6.6 mm)	26s	AS
250 µL	203078	203219	Gastight	Model 1725 FN CTC SYR (7.9 mm)	26	AS
500 µL	203080	203225	Gastight	Model 1750 FN CTC SYR (7.9 mm)	26	AS

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

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HAMILTON®

Web: www.hamiltoncompany.com
USA: 800-648-5950
Europe: +40-356-635-055

Hamilton Americas & Pacific Rim
Hamilton Company Inc.
4970 Energy Way
Reno, Nevada 89502 USA
Tel: +1-775-858-3000
Fax: +1-775-856-7259
sales@hamiltoncompany.com

Hamilton Europe, Asia & Africa
Hamilton Central Europe S.R.L.
str. Hamilton no. 2-4
307210 Giarmata, Romania
Tel: +40-356-635-055
Fax: +40-356-635-060
contact.lab.ro@hamilton-ce.com

To find a representative in your area, please visit hamiltoncompany.com/contacts.