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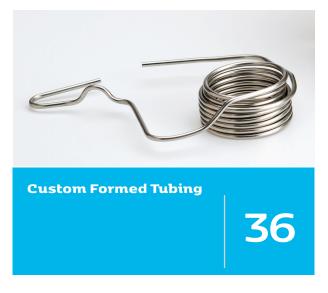
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Gas Syringe Features

	Series A	Series A-2	Series C	Series D	Magnum
	p. 8	p. 10	р. 14	p. 16	p. 17
Removable Needle option	✓	✓	✓	✓	✓
Luer Lock Needle option		✓	✓		✓
Plunger stop	✓	✓	✓		✓
Sample Lock valve option	Twist-lock	Push-button	Mininert Syringe Valve (optional)	Mininert Syringe Valve (optional)	Twist-lock
Pressure Rating	250 psi	250 psi	250 psi	250 psi	30 psi
Sample size options	100 μl- 10 ml	25 μl- 10 ml	100 µl- 10 ml	1 ml-2 ml	20 ml - 500 ml

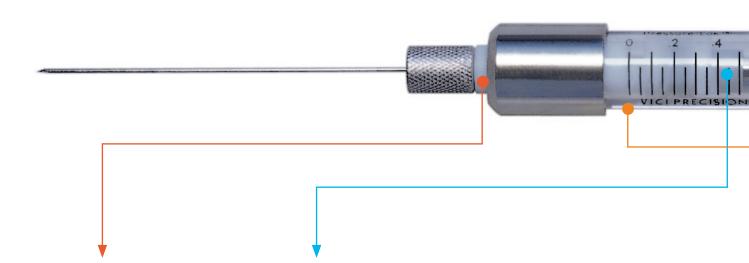
Liquid Syringe Features

	Series C-160	Series C-120	Series CG-130	Series D-140	Mini Injector	Purge & Trap
	p. 21	p. 22	p. 23	p. 24	p. 26	p. 29
Removable Needle option	✓		✓	✓		
Fixed Needle option	✓	✓	✓		✓	
Plunger stop					✓	
Reinforced plunger			✓	✓	✓	
Pressure Rating	250 psi	250 psi	250 psi	30 psi		250 psi
Sample size options	5 µl- 100 µl	5 µl- 100 µl	5 µl- 10 µl	1 µl- 10 µl	.01 μl & .10 μl	5 ml - 10 ml
Side vent				✓		

Pressure-Lok® Syringe Features



Easily replaceable parts. Individual parts can be easily replaced, optimizing equipment investment.



PTFE-Sealed Needle

Our syringes have a barrier sleeve or packing of PTFE on the rear of the needle at the zero point.

Benefit:

 Sample is isolated from needle cement, thus preventing adhesive from contaminating the sample.

PTFE Plunger Tip

- PTFE Plunger Tip
- Stress-formed with our unique process.
- Insures a leak-tight seal.
- Self-lubricating plunger tip.
- Stays smooth for the life of the syringe.
- Unlike conventional all metal plungers, there is no freezing up or unwanted residue.

Hand Calibration

- Hand-calibration verifies consistent volume delivery.
- Double checked volume delivery with an electronic microbalance.
- Careful quality control ensures precision and accuracy of Pressure-Lok® microsyringes.



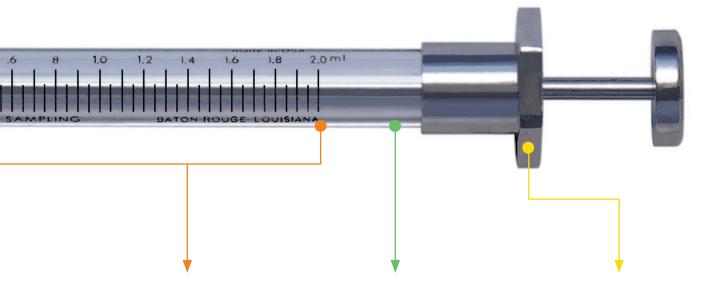
Pressurized Sample Storage. Built-in valve to allow sample storage at up to 250 psi.



Removable Needles. Pressure-tight, low dead volume connection allow easy needle removal.



Optional Luer Lock Tip. Luer Lock creates a leak free quick release option.



Crisp Clean Graduations

Our methods insure easy reading of the sampled amount.

Ultra-Smooth Bore

Syringe barrels up to 100 µl are hand-fabricated from high quality borosilicate glass, manufactured to our specifications. The extremely smooth bore prevents undue wear of the plunger tip and insures a smooth, durable seal.

Shaped Rear Flange

- Provides a secure grip.
- Prevents the syringe from rolling.



Positive Rear Plunger Stop. Prevent plunger damage due to accidental plunger removal.



Reinforced Plunger. Prevent plunger bending and reduce syringe repairs costs.

A - Series Syringes

A-Series Syringes

The design of the A-Series syringe eliminates carrier backflushing achieving sharper peaks and better separations.

The plunger design, along with the very small internal diameter of the needle, helps to eliminate dead volume. The modular assembly allows quick disassembly for parts cleaning or replacement.

The A-Series gas syringe has all the standard pressure-lock features including:

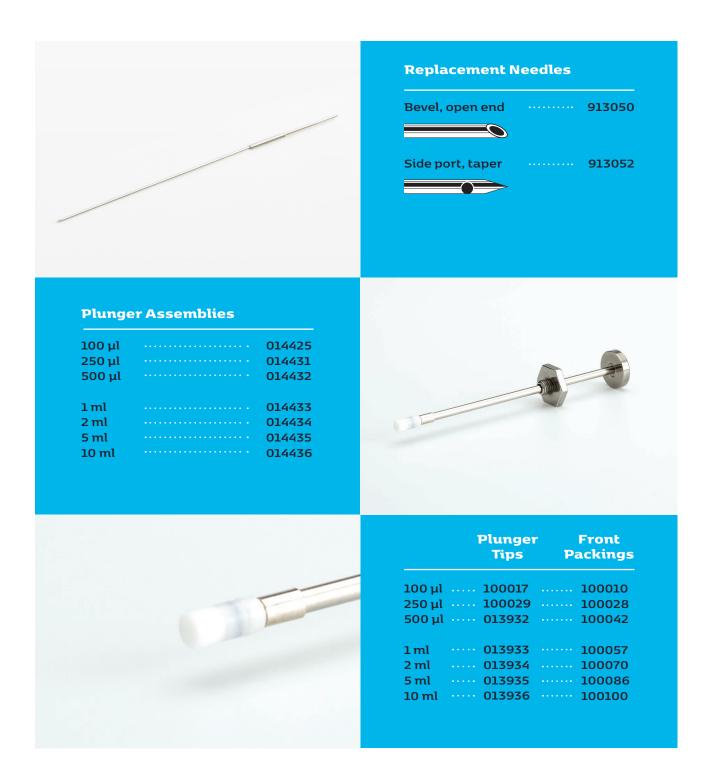
- PTFE plunger tip
- PTFE-sealed needle
- Ultra smooth bore



A - Series



Prolong the life of our A-Series syringes with a wide variety of replacement parts including needles, plunger assemblies, plunger tips and front packings.





A-2 Series: Our Best Selling Syringe



All the advantages of the A series syringe plus a push button valve which allows instantaneous injection. Ideal for small liquid samples containing low-boiling components.

Allows sample storage in 25 µl syringes

Particularly useful when handling small liquid samples containing low-boiling components, usually lost through evaporation using ordinary syringes. In addition to sample storage capability, the push-button valve allows for pre-pressurization of samples prior to injection. By pre-pressurizing the sample gas to match or exceed the pressure in the chromatograph, the sample can be flushed instantaneously into the column as a 'slug'. The result is better resolution.

Always leak-tight

The A-2 uses a special needle and needle connector designed specifically for chromatography and other analytical sampling. Significantly lower dead volume than conventional style Luer connectors.

A-2 Series Syringes



Features a push-button valve, which allows sample storage to 250 psi in syringes as small as 25 μ l. Available for use in a variety of containers including tapered, internal and external threaded containers, and for use with vacuum bulb or line.



A-2 Series Replacement Parts



Prolong the life of our A-2 Series with plunger tips and plunger assemblies for all sample sizes.

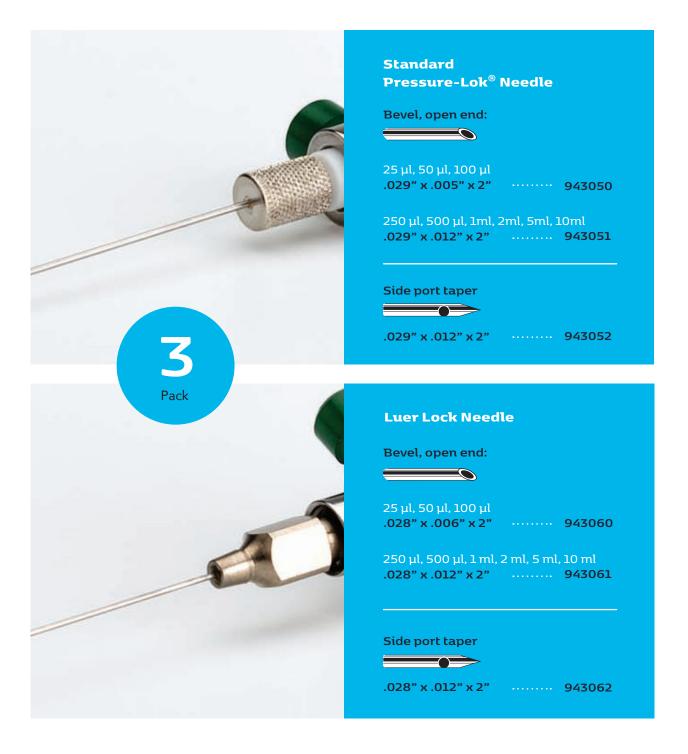




A-2 Series & C-Series Replacement Parts



PTFE sealed needles are easily replaceable and are available in Standard Pressure-Lok® and new Luer Lock Needles.



C Series Syringes



The Series C syringe is perfect for everyday use, with all the standard Pressure-Lok® features such as a PTFE plunger tip, PTFE-sealed needle, and ultrasmooth bore, but without a valve for pressurized sample storage. Sample storage capability can be added with a Mininert syringe valve.

The optional Chaney adapter offers much lower dead volume than luer-style connectors.



Syringes up to 1 ml

Standard Needle 030025
Luer Lock Needle 030045-LL

Standard Needle 030031
Luer Lock Needle 030051-LL

Standard Needle 030032 Luer Lock Needle 030052-LL

Standard Needle ···· 030033
Luer Lock Needle ··· 030053-LL

Syringes up to 10 ml

2 Standard Needle ···· 030034 Luer Lock Needle ···· 030054-LL

5 Standard Needle 030035 ml Luer Lock Needle 030055-LL

Standard Needle 030036
Luer Lock Needle 030056-LL





Syringe w/ Standard Needle & Chaney Adapter

.018" x .008" x .75" Side Port

	100 µl	101430
μl	250 µl	101440
	500 µl	101448

	1 ml	101455
ml	2 ml	101463
	5 ml	101470
	10 ml	101478

C Series Replacement Parts



Lengthen the life of your C Series syringes by purchasing replacement parts.



Replac		emblies lunger assembl es	y for
μl	100 µl 250 µl		014425 014431
μl	500 µl		014432
ml	1 ml 2 ml		014433 014434
ml	5 ml 10 ml		014435 014436

Replacement Needles Standard Pressure-Lok® Standard Luer Lock Chaney Adapter .029"x.005"x2" ···· 943050 .028"x.006"x2" ···· 943060 .018"x.008"x.75" ···· 101935 .029"x.012"x2" ···· 943051 .028"x.012"x2" ···· 943061

D Series Pressure-Lok® Syringes

D Series Syringes

An economically priced high precision gas sampling syringe with more features than conventional gas-tight designs.



1 ml

2 ml

 Standard

 040033

 Luer Lock

 040053



 Standard

 040034

 Luer Lock

 040054

BATON ROUGE, LOUISIANA

Replacement Parts

Plunger Tips

..... 013933 013934 Plunger Assemblies

1 ml 044433 2 ml 044434

VICI PRECISION SAMPLING





Standard .029"x.005"x2"

Bevel, open end 943051 Side Port, taper 943052 Luer .028"x.012"x2"

Bevel, open end 943061 Side Port, taper 943062 Leak-tight up to 250 psi

Mininert Syringe Valves - For Series C and D syringes or conventional luer-tip

- Add sample storage capability: Mount a Mininert Syringe Valve on a standard syringe.
- Push button operation: Green to open, red to close.



For a Series C or D syringe

These convenient add-on valves allow our Series C and D syringes to store samples at up to 250 psi. The valve body is all PTFE, with a stainless steel stem. 654050



For a Luer-tip syringe

This model is designed to fit Luer-tip syringes from any manufacturer and accept traditional Luer needles. 654051



Magnum Series Syringes



Specially formed seals permit leak-tight operation to 30 psi.

Built-in twist-lock valve and positive rear plunger stop

The detection of low levels of various environmental contaminants can require extraordinarily large samples. Magnum syringes facilitate the trapping of such samples in remote locations. A built-in valve allows the sample to be sealed within the syringe, maintaining sample integrity during transportation to the analysis site.

Up to 500 ml capacity

Magnums have been successfully used to sample atmospheric contaminants such as sulfur dioxide and oxides of nitrogen at distant points of the earth. The positive displacement capability of the durable PTFE plunger seal permits use in a variety of subsequent procedures involving extraction or concentration of trace components. (With a cryogenic enrichment apparatus, for example).

Magnum Series Syringes



Seals to maintain sample integrity during transport to analysis site.



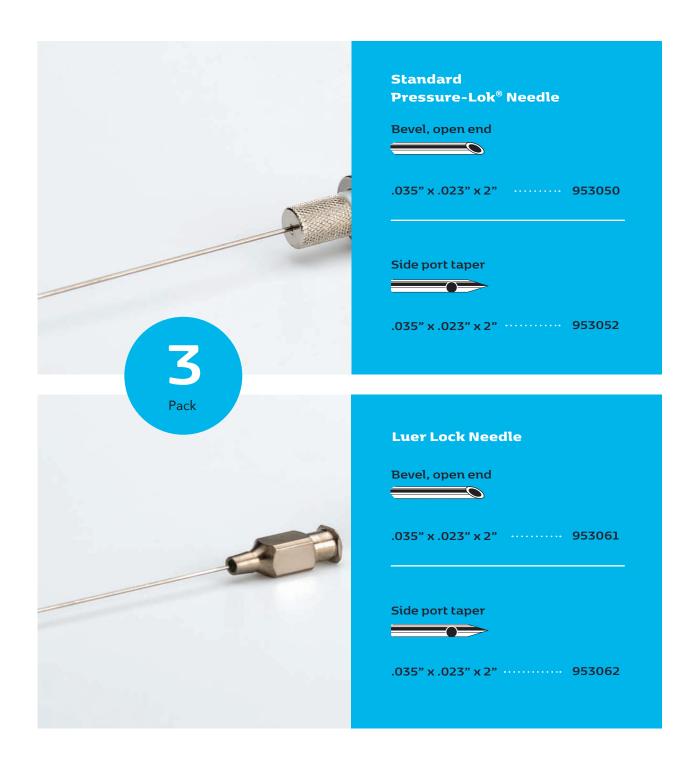
Syringe with St	andard Needle
ml 20 ml	060037
ml 50 ml	060039
ml 100 ml	060040
ml 250 ml	060041
ml 500 ml	060042

Syringe wit	h Luer Loc	k Needle
ml 20 ml		060043
ml 50 ml		060044
ml 100 ml		060045
ml 250 ml		060046
ml 500 ml		060047

Magnum Replacement Needles



Needles are manufactured to exacting tolerances from high precision stainless steel tube stock.



Magnum Replacement Parts



Easily replaceable parts for our Magnum syringes.

Standard Nosepiece

20/50/100 ml 065037 250/500 ml 065041

4 Barrel Assembly

 20 ml
 065637

 50 ml
 065639

 100 ml
 065640

 250 ml
 065641

 500 ml
 065642

2 Luer Lock Nosepiece

20/50/100 ml 065042 250/500 ml 065043

5 Front Sleeve

 20 ml
 100288

 50 ml
 100312

 100 ml
 100333

 250 ml
 100352

 500 ml
 100372

3 Stem cap set screw

20/50/100 ml 250/500 ml 500635

6 Rear Sleeve

20 ml 100289 50 ml 100313 100 ml 100334 250 ml 100353 500 ml 100373



7 Valve Stem

 20 ml
 100296

 50 ml
 100320

 100 ml
 100341

 250 ml
 100360

 500 ml
 100379

10 Front Packing

 8 Stem cap

20/50 ml 100298 100/250/ 100343

500 ml

Plunger Rod

 20 ml
 065437

 50 ml
 065439

 100 ml
 065440

 250 ml
 065441

 500 ml
 065442

9 Valve stem guide

 20 ml
 100297

 50 ml
 100321

 100 ml
 100342

 250/500 ml
 100361

Plunger Tip

 20 ml
 065537

 50 ml
 065539

 100 ml
 065540

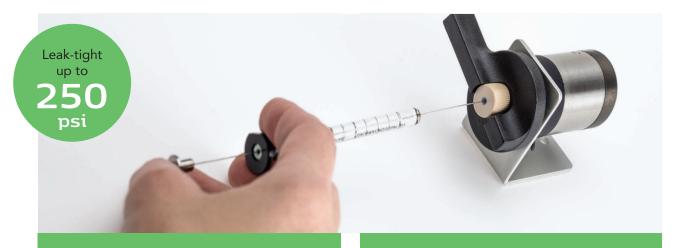
 250 ml
 065541

 500 ml
 065542

C-160 Series Syringes



Dependability at an economical price. Plunger tip made of stress-formed virgin PTFE is self-lubricating and durable.



Syringe with FIXED Needle

PTFE needle seat at rear of needle prevents possible dissolution of needle cement or contamination of sample.

5 ul	 160021

10 μl 160022

25 μl 160023

50 μl 160024

100 ul 160025

Replacement Plunger Assembly

25 μl ····· 163723

Syringe with Removable Needle

Complete with integral PTFE seal for a low dead volume connection and a leak-tight fit.

5 ul	160221
- 5 III	 ーロロフノエ

10 µl 160222

25 μl 160223

50 μl ····· 160224

 $100\,\mu l \quad \cdots \qquad 160225$

Replacement Needles

Bevel, open end

.019" x .005" x 2.25" 123050

C-120 Series Syringes

No dead volume barrel design Special low dead volume needle connector plunger tip of stress-formed virgin PTFE.

C-120 Series Syringes

Our fixed needle, extended barrel syringe is leak-tight to 250 psi for liquids and gases. Extended design permits attachment of vacuum bulb.

5 µl	• • • • • • • • • • • • • • • • • • • •	120021	50 µl	• • • • • • • • • • • • • • • • • • • •	120024
10 µl	• • • • • • • • • • • • • • • • • • • •	120022	100 µl	• • • • • • • • • • • • • • • • • • • •	120025
25 µl		120023			

Plunger Assembly

5 µl	• • • • • • • • • • • • • • • • • • • •	123721	50 μl	• • • • • • • • • • • • • • • • • • • •	054124
10 µl	•••••	123722	100 µl	• • • • • • • • • • • • • • • • • • • •	054125
25 µl		054123			



Leak-tight up to 250 psi



CG-130 Series Syringes



Features include a reinforced plunger to eliminate bending with optional replaceable needles.

CG-130 Liquid Syringe

A heavy, reinforced plunger within an enlarged plunger guide section of the CG-130 barrel virtually eliminates plunger bending. The smaller front section of the plunger is confined within the guide section even when the plunger is retracted, while the sturdy upper section absorbs the force of a rapid downstroke.

Syringe - Fixed Needle Syringe - Removable Needle

5 µl	130021	5 µl	130221
10 11	130022	10 ul	130222

Replacement Needle - Bevel Open End

Replacement Plunger Assembly

		5 µl	133721
		10 µl	133722
019" x .005" x 2.25"	123050		

Series D-140 Syringes



The entire sample is contained in the needle, so it is totally injected when the plunger is depressed. The positive rear plunger stop eliminates accidental plunger removal and resultant damage.



D-140 Syringes

Designed for small volume injection into liquid chromatographs. Since the sample is totally contained within the needle, it is completely displaced by the plunger. The positive rear plunger stop eliminates accidental plunger removal and resultant damage. The PTFE seals, needle, plunger, and barrel are all replaceable.

Thanks to superior alignment, the D-140 can be assembled time after time without difficulty or damage.

1 μl Syringe	140011
2 μl Syringe	140012
5 μl Syringe	140021
10 μl Syringe	140022

Replacement Parts



All D-140 parts are replaceable, with easy assembly and disassembly.



Replacement Needles

Blunt



Plunger Assembly

1 μl 143711 2 μl 143712 5 μl 143721 10 μl 143722



Plunger Packing



Barrel Assembly

1 μl 143211 2 μl 143212 5 μl 143221 10 μl 143222

Mini Injector Series Syringes

Reproducible sample injections down to 0.01µl with sample carried in the plunger.

Mini Injector Syringes

Ideal for capillary GC work. No splitter is needed because of our unique plunger-within-a-needle. Sample volume is carried in a precisely measurable groove that surrounds the wire plunger.

In use, the plunger is extended beyond the needle tip and dipped into the sample, where capillary action fills the groove. Then the plunger is drawn through a PTFE wiper and back into the needle for protection. When the needle is inserted into the inlet and the plunger is depressed, the sample carried on the plunger groove enters the heated zone, where it is flash-vaporized and swept into the column.

PRESSURE: LOX 8 OF A BOTON ROUGE LOWISIAND

.01 µl 170091 .10 µl 170001

Replacement Wipers

.01 µl & .10 µl ····· 100667



Syringes for Valco, Cheminert and Rheodyne/IDEX Valves



Special Syringes for IDEX/Rheodyne valves



PEEK tip to prolong lifetime of valves. Available with fixed or removable needle.



Special Syringes

Many IDEX/Rheodyne valves allow the syringe needle to rub across the sealing surfaces- a trade off in a valve design which avoids having to machine small concentric holes. To prolong the lifetime of these valves, VICI Precision Sampling offers a syringe with a PEEK tip which extends beyond the end of the needle so that only PEEK contacts the valve sealing surfaces.

Syringe with Fixed Needle Syringe with Removable Needle Needle size 22 gauge x 2" long

5 µl	160021RT	5 µl	160221RT
10 µl	160022RT	10 µl	160222RT
25 µl	160023RT	25 µl	160223RT
50 μl	160024RT	50 μl	160224RT
100 11	160025PT	100 ul	160225PT

Replacement Needles

Needle size 22 gauge x 2" long

Blunt PEEK tip open end - Pkg./3 123050R7

Purge and Trap Syringe



The heavy duty construction of our purge and trap syringe helps eliminate cost of replacement and injuries due to breakage.



Standard Luer Lock Syringe

- For use with purge and trap analysis
- Allows easy volume reading
- Plunger tip of stress-formed virgin PTFE
- Self-lubricating and durable Heavy duty rear flange
- Flat edges keep the syringe from rolling

5 ml 030039 10 ml 030040



Luer Lock Syringe with Push Button Valve

- All the features of the standard syringe
- Also includes push button valve to lock the sample

5 ml 050039 10 ml 050040



Micro-Flo® Syringes



The Micro-Flo® high pressure syringe prevents evaporation of lighter components under normal laboratory temperatures at atmospheric pressure.

The syringe is encased in metal, with positive PTFE seals and positive plunger stops. The front end houses a special micro-volume annular needle with less than 0.5 µl dead volume and a positive mechanical Sample Lock valve to seal in volatile materials (up to 500 psi).

A special locking cylinder adapter and yoke assembly ensures that the syringe contacts the sample liquid in its pure, undisturbed state. The syringe volume is variable from $0.5~\mu l$ to $5.0~\mu l$.

Available replacement parts include plunger assembly, front packing, barrel and decal, rear washer, spring, and needle.

Micro-Flo[®] Syringe 230051

Micro-Flo® Accessories and Replacement Parts



Available replacement parts include plunger assembly, front packing, barrel and decal, rear washer, spring, and needle.



Micro-Flo® Adapter & Parts

A special locking cylinder adapter and yoke assembly ensures that the syringe contacts the sample liquid in its pure, undisturbed state.

Micro-Flo® Adapter with Yoke Assembly 230250

Syringe side packing 100844 Plunger pin rod assembly 100846 Plunger pin side packing 100848

Micro-Flo® Syringe Parts

Replaceable parts mean lengthening the life of the syringe.

Barrel with decal 100827 Spring 100830 Plunger assembly 100854 Front packing 100828 Rear washer 100826





Micro-Flo® Syringe Parts

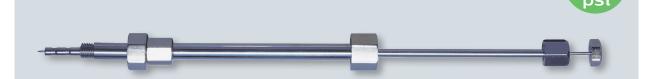
Needle: .028"x.006"x1.875"

.5 μl - 5 μl Sideport 100838

Pressure-Flo® Syringes



A classic method of taking homogeneous high pressure samples from a cylinder or "bomb".



Lightweight syringe body for easy handling. The sample is contained within the calibrated needle which can be injected directly through the GC septum inlet. A special crimped PTFE packing which seals firmly at pressures up to 500 psi even under severe operating conditions.

Threads allow the syringe to make up on a cylinder via the special bomb adapters (see image, below). When the syringe is screwed tight, the cylinder valve is opened and the plunger is depressed, extending the needle into the liquid zone. Once sample is drawn into the syringe, it is stored pressure-tight while the cylinder valve is closed and the syringe is removed from the adapter.

Pressure-Flo Syringes

.5 µl	•••••	220005
1μl		220011
2μl	•••••	220012
5 µl	•••••	220021
10 ul		220022

To interface with a gas cylinder, use syringe with our bomb adapter



Bomb adapters

1/8" NPT female		240040
1/4" NPT female		240041
1/8" NPT male	•••••	240042
1/4" NPT male		240043

Needles

.5 μl		220351
$1\mu l, 2\mu l, 5\mu l, 10\mu l$	•••••	220352

Plunger packing

.5 μl	100800
1 μl, 2 μl, 5 μl, 10 μl ·····	220347

Plunger Assembly

.5 µl		220315
1μl		220311
2 µl	•••••	220312
5 µl	•••••	220321
10 µl	•••••	220322

Front packing Assembly

All Sample Sizes	•••••	220344
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Specialty Syringes



Special syringes designed to make your processes more efficient.



Hollow Plunger Syringes

The hollow plunger syringe with two integrated valves opens up a new array of application possibilities:

- Dispense a viscous sample more easily by introducing it into the rear of the syringe instead of drawing it up through the needle.
- Eliminate sample-to-sample cross contamination by giving the syringe a thorough cleaning with a rinse introduced through the plunger.
- Sample continuously without withdrawing the needle from the original point of entry. Just close the on/off valve after drawing sample through the needle; the sample is redirected out the plunger valve as the plunger is depressed.

Syringes for Diluter/Dispensers and Automated Instrumentation

The plunger of this syringe has a 6-32 UNC female thread so that it will accept the male end fitting on Hamilton Microlab® diluters. The PTFE tipped luer lock termination is without slots.



Mininert Valves



Mininert push-button valves are highly dependable, leak-tight closures for screw-cap vials and other laboratory containers. When used with a glass vial, only PTFE and glass are in contact with the contents. Their unique features make Mininert valves the ideal closure for calibration standards, air- or moisture-sensitive fluids, derivatizing reagents, volatile chemicals, etc.

Operation is extremely simple – push the green button to open the valve, insert the needle through the septum and take a sample, withdraw the needle, and push the red button to close the valve.



Mininert Valves - Screw Caps

The screw-cap Mininert is available in a variety of sizes. The crimp-top valve for 13 mm ID glassware slides into the neck of the vial and features a threaded flange which is turned to provide a leaktight fit.

13mm - 425	•••••	614158
15mm - 425	•••••	614160
18mm - 400		614161
20mm - 400	•••••	614170
24mm - 400	•••••	614163
Crimp Top	•••••	614250



Mininert Valves

The laboratory taper model brings Mininert convenience and ease to a variety of applications using standard laboratory glassware, such as reaction chambers, test tubes, and other glass systems.

Taper Valve

14/20	•••••	621102
19/22		621103

Our threaded designs offer positive on/ off fluid control as an in-line valve or syringe access as a termination valve at a sample point. In-line valves are 1/4-28 male to male or 1/4-28 female to female. Termination valves are offered in 1/4-28 male or female and 1/8" NPT male or female.

Inline valve 1/4 - 28

Male to Male	631205
Female to Female	631206

Termination Valve

1/4 - 28 Male	631201
1/4 - 28 Female	631203
1/8 - NPT Male	631202
1/8 - NPT Female	631204

Syringe Valve

C or D Gas Syringe	654050
Luer-tip Syringe	654051



Septum Replacement



Prolong the life of your Mininert Valves with our easy to use septum replacement.

Mininert Septum Replacement

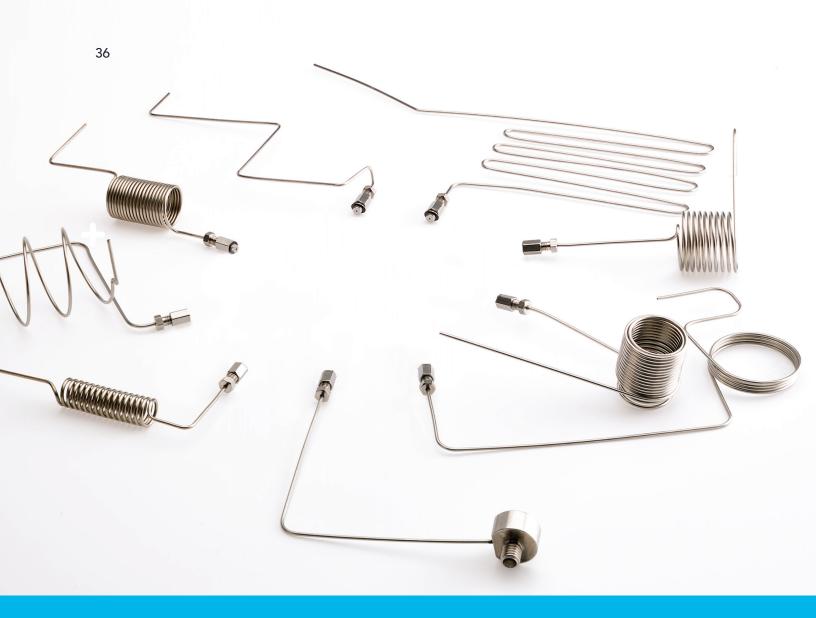
These silicone septa fit all Mininert valves. The installation tool is a handy device for quickly removing and replacing needle seal septa.



Tool Only 644850



Septum set of 50 644350



Custom Formed Tubing

Material options for custom formed tubing

316L Stainless Steel, Titanium, Nickel, Hastelloy-C, Electroformed Nickel, and Nickel Cobalt.

Cleaning

All tubing is electrolytically cut and specially steam-cleaned with micro-filtered steam from deionized water, which removes both organic and inorganic contaminants. VICI Precision Sampling has extensive experience at custom tubing bending and shaping. Contact us to learn more about our custom tube bending service.

- Custom-formed to your specifications
- Streamlines instrument production
- Attractively priced

The Sky is the Limit



Why buy tubing in bulk and try to make it work? We have the expertise to custom form tubing to your exact specifications, so you can focus on your products.



Unique Cleaning Processes

Precision, burr less cuts. OD and ID STEAM cleaned.

Multiple Connections

We have access to the tubing and any fittings you might need. Give us a call to discuss your specific needs.



Bends of all Degrees

We can create bends to allow the tubing to navigate complex internal workings of your instruments.

Micro Valves for GC and LC



Simplify your liquid or gas handling application with a VICI Precision Sampling micro-valve. The unique design of the fitting detail allows a leak-free seal with no potential for rotor damage from over-tightening. Internal parts are PEEK and PTFE. Compact 1" design with convenient panel mount and a variety of configurations.



2 Port Micro Valves

Available in 2 flow paths; 180 Degree and 90 Degree.



180° Flow

Path.....660200



90° Flow

Path......660300



3 Port Micro Valves

Available in 2 flow paths; "T" Flow Path and 90° Flow Path.



"T" Flow Path.....660100



90° Flow Path....660310



4 Port Micro Valves

Available in 2 flow paths.



T" Flow

Path....660110



90° Flow

Path....660320



180° Flow

Path.....660210

GC & LC Probes



Probes are used to transfer a liquid sample from a sample vial to the injection syringe by pressurizing the sample vial with helium.

Agilent Archon Instruments



Water probe assembly

Probe with fittings 505739
Probe without fittings 505828



Square Block

Probe with fittings 505841
Probe without fittings 505840



Water probe (old style)

Probe with fittings 505491
Probe without fittings 505831



Soil probe assembly

Probe with fittings 505490
Probe without fittings 505830



Needle purge probe assembly

Hex Block

Probe with fittings 505741
Probe without fittings 505829

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010032 ····· P. 8	030045-LL · · · · P. 14	060047 ···· P. 18	100826 ···· P. 31
010033 ····· P. 8	030051-LL ····· P. 14	065037 ···· P. 20	100827 ···· P. 31
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