



VICI PRECISION SAMPLING

BGB GC|LC
MS|CE

www.bgb-shop.com/vici

Product Catalog

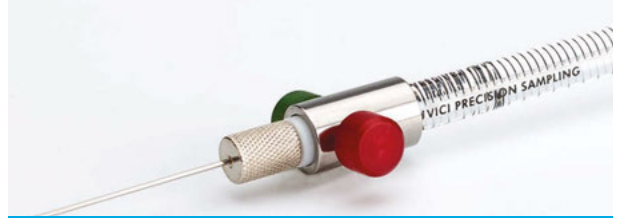
Table of Contents



Syringe Features

Pressure-Lok[®] syringes, Select Models & Gas/Liquid Features

4



Gas/Liquid Syringes

A Series, A-2 Series, C Series, D Series & Magnum Series

8



Liquid Syringes

C-160, C-120, CG-130, D-140, Mini Injector, HPLC & Purge & Trap Series

21



High Pressure Syringes

Pressure-Flo[®] and Micro-Flo[®] syringes

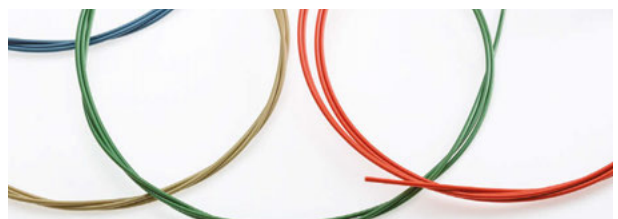
30



Mininert Valves

Syringe valves, Standard taper valves, Threaded fitting valves and replacement parts

34



Tubing

PEEK tubing, Polymeric tubing and Metal tubing

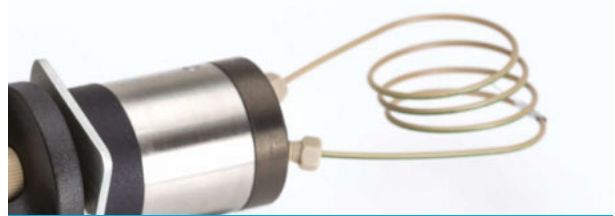
42



Tubing Accessories

Tubing cutters, Elbows and Clips

46



Sample Loops

Sample loops for Idex/
Rheodyne valves, Cheminert
valves and Valco valves

48



Fittings

Low pressure fittings, Flanged
end tube fittings, and Cheminert
high pressure fittings

50



Liquid Handling

Micro valves for LC and GC,
and Micro valve actuator

56



Probes

OEM Probes

58



Index

59

Gas Syringe Features

	Series A	Series A-2	Series C	Series D	Magnum
	p. 8	p. 10	p. 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. 25	p. 26	p. 30
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				✓		

Customized Products



VICI Precision Sampling offers top of the line customized service and products to fit your needs including custom length needles, special gauge needles or custom syringes. We also have the capacity to create custom cut and formed tubing.



Custom Formed Tubing

Custom formed tubing in a wide array of configurations.



Custom Cut Tubing

Custom cut metal & polymeric tubing to exact specs. Metals include 316 Stainless, Nickel 200, Titanium and Hastelloy C.



Custom Syringes

Products for gas handling.



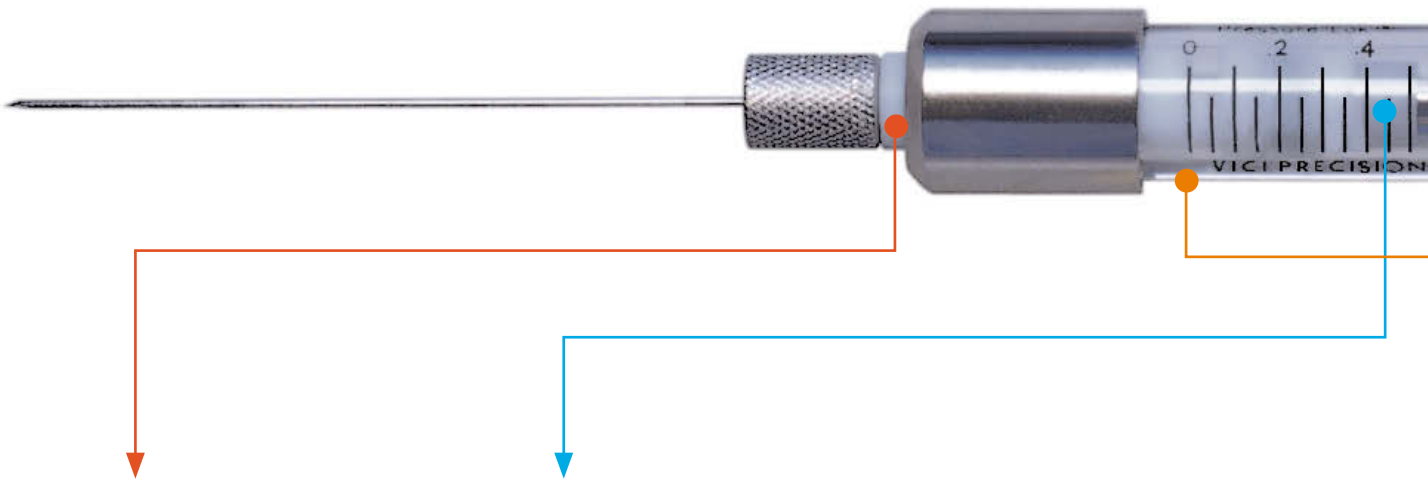
Custom Needles

Options include length, point style and gauge.

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.



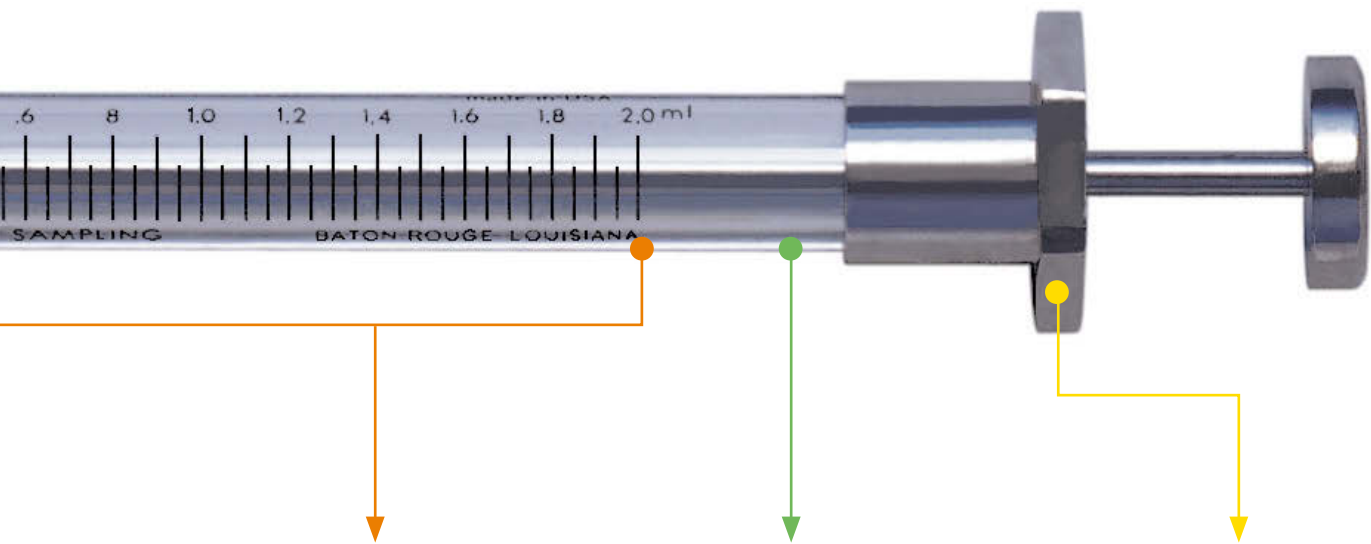
Pressurized Sample Storage. Built-in valve to allow sample storage at up to 250 psi.



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 μ l 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.
- Keep 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

100 μ l	.....	010025
250 μ l	.....	010031
500 μ l	.....	010032

1 ml	.....	010033
2 ml	.....	010034
5 ml	.....	010035
10 ml	.....	010036



Built-in
**Twist-lock
Valve**

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.



Replacement Needles

Bevel, open end 913050



Side port, taper 913052



Plunger Assemblies

100 µl	.....	014425
250 µl	.....	014431
500 µl	.....	014432
1 ml	.....	014433
2 ml	.....	014434
5 ml	.....	014435
10 ml	.....	014436



	Plunger Tips		Front Packings	
--	--------------	--	----------------	--

100 µl	.....	100017	.....	100010
250 µl	.....	100029	.....	100028
500 µl	.....	013932	.....	100042
1 ml	.....	013933	.....	100057
2 ml	.....	013934	.....	100070
5 ml	.....	013935	.....	100086
10 ml	.....	013936	.....	100100



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 μ l 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.



Syringe with Standard Needle

Designed for tapered and internal threaded containers

μ l 25 μ l 050023
50 μ l 050024

μ l 100 μ l 050025
250 μ l 050031
500 μ l 050032

ml 1 ml 050033
2 ml 050034

ml 5 ml 050035
10 ml 050036



Syringe with Luer Lock Needle

Designed for externally threaded glass containers

μ l 25 μ l 050043-LL
50 μ l 050044-LL

μ l 100 μ l 050045-LL
250 μ l 050051-LL
500 μ l 050052-LL

ml 1 ml 050053-LL
2 ml 050054-LL

ml 5 ml 050055-LL
10 ml 050056-LL



Extended Syringe Barrel

For use with a vacuum bulb or line

μ l Standard Needle
25 μ l ... 050023-EB

μ l Luer Lock Needle
25 μ l ... 050043-LL-EB

μ l Standard Needle
50 μ l ... 050024-EB

μ l Luer Lock Needle
50 μ l ... 050044-LL-EB

A-2 Series Replacement Parts



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



Plunger Tips

Replacement plunger assembly for A-2 Series Syringes

μl	100 μl}	.....	100017
	250 μl}	.....	100029
	500 μl}	.....	013932

ml	1 ml	.....	013933
	2 ml	.....	013934

ml	5 ml	.....	013935
	10 ml	.....	013936



Plunger Assemblies

Replacement plunger assembly for A-2 Series Syringes

μl	25 μl}	.....	054123
	50 μl}	.....	054124

μl	100 μl}	.....	014425
	250 μl}	.....	014431
	500 μl}	.....	014432

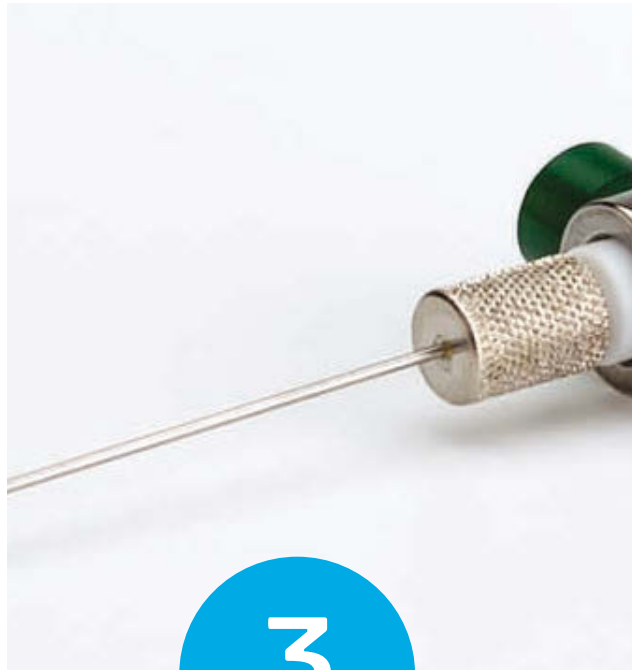
ml	1 ml	.....	014433
	2 ml	.....	014434

ml	5 ml	.....	014435
	10 ml	.....	014436

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.



3

Pack

Standard Pressure-Lok[®] Needle

Bevel, open end:



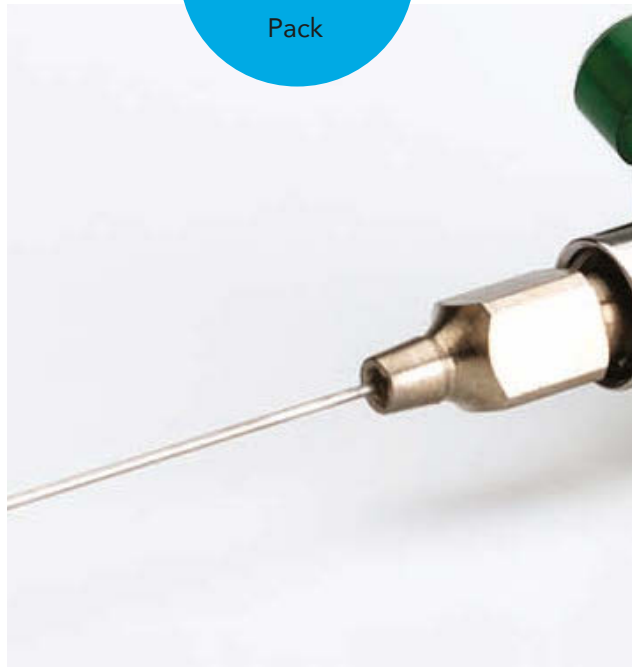
25 μ l, 50 μ l, 100 μ l
.029" x .005" x 2" 943050

250 μ l, 500 μ l, 1ml, 2ml, 5ml, 10ml
.029" x .012" x 2" 943051

Side port taper



.029" x .012" x 2" 943052



Luer Lock Needle

Bevel, open end:



25 μ l, 50 μ l, 100 μ l
.028" x .006" x 2" 943060

250 μ l, 500 μ l, 1 ml, 2 ml, 5 ml, 10 ml
.028" x .012" x 2" 943061

Side port taper



.028" x .012" x 2" 943062

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

100 µl	Standard Needle	.....	030025
	Luer Lock Needle	.....	030045-LL
250 µl	Standard Needle	.....	030031
	Luer Lock Needle	.....	030051-LL
500 µl	Standard Needle	.....	030032
	Luer Lock Needle	.....	030052-LL
1 ml	Standard Needle	.....	030033
	Luer Lock Needle	.....	030053-LL

Syringes up to 10 ml

2 ml	Standard Needle	.....	030034
	Luer Lock Needle	.....	030054-LL
5 ml	Standard Needle	.....	030035
	Luer Lock Needle	.....	030055-LL
10 ml	Standard Needle	.....	030036
	Luer Lock Needle	.....	030056-LL



Syringe w/ Standard Needle & Chaney Adapter

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

µl	100 µl	.....	101430
	250 µl	.....	101440
	500 µl	.....	101448
ml	1 ml	.....	101455
	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.



Plunger Tips

Replacement plunger tip for C Series Syringes

μl	100 μl	.....	100017
	250 μl	.....	100029
μl	500 μl	.....	013932
	1 ml	.....	013933
ml	2 ml	.....	013934
	5 ml	.....	013935
ml	10 ml	.....	013936



Plunger Assemblies

Replacement plunger assembly for C Series Syringes

μl	100 μl	.....	014425
	250 μl	.....	014431
μl	500 μl	.....	014432
	1 ml	.....	014433
ml	2 ml	.....	014434
	5 ml	.....	014435
ml	10 ml	.....	014436

Replacement Needles

Standard Pressure-Lok®

.029"x.005"x2" 943050
.029"x.012"x2" 943051

Standard Luer Lock

.028"x.006"x2" 943060
.028"x.012"x2" 943061

Chaney Adapter

.018"x.008"x.75" 943060
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	Standard	.....	040033	2 ml	Standard	.....	040034
	Luer Lock	.....	040053		Luer Lock	.....	040054

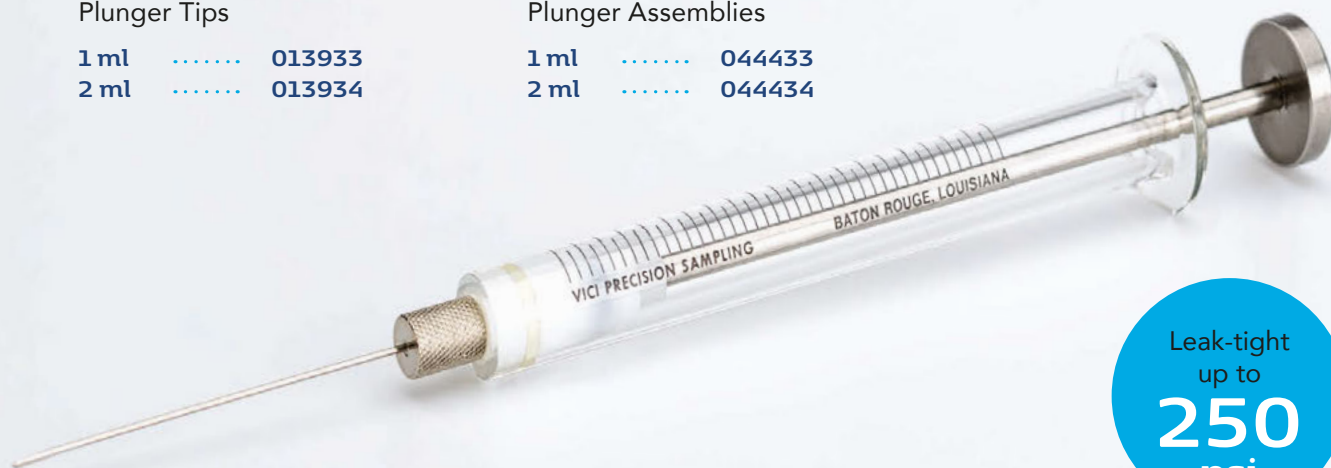
Replacement Parts

Plunger Tips

1 ml	.....	013933
2 ml	.....	013934

Plunger Assemblies

1 ml	.....	044433
2 ml	.....	044434



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.

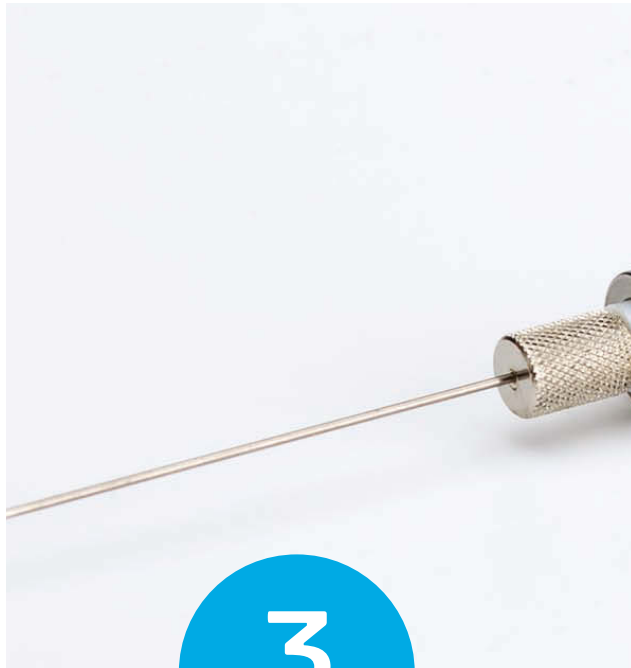


Syringe with Standard Needle				Syringe with Luer Lock Needle			
ml	20 ml	.....	060037	ml	20 ml	.....	060043
ml	50 ml	.....	060039	ml	50 ml	.....	060044
ml	100 ml	.....	060040	ml	100 ml	.....	060045
ml	250 ml	.....	060041	ml	250 ml	.....	060046
ml	500 ml	.....	060042	ml	500 ml	.....	060047

Magnum Replacement Needles



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



3
Pack

Standard Pressure-Lok[®] Needle

Bevel, open end

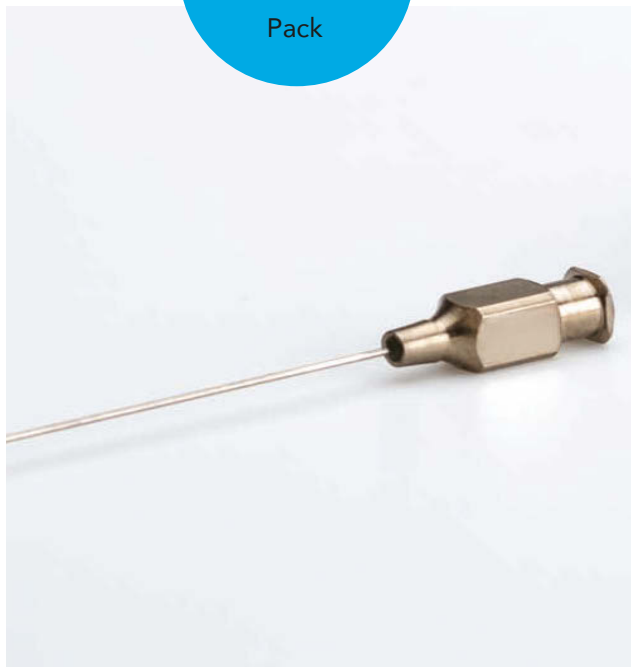


.035" x .023" x 2" 953050

Side port taper



.035" x .023" x 2" 953052



Luer Lock Needle

Bevel, open end




.035" x .023" x 2" 953061

Side port taper



.035" x .023" x 2" 953062

Magnum Replacement Parts

 Easily replaceable parts for our Magnum syringes.

<p>1 Standard Nosepiece</p> <p>20/50/100 ml 065037 250/500 ml 065041</p>	<p>2 Luer Lock Nosepiece</p> <p>20/50/100 ml 065042 250/500 ml 065043</p>	<p>3 Stem cap set screw</p> <p>20/50/100 ml 250/500 ml 500635</p>
<p>4 Barrel Assembly</p> <p>20 ml 065637 50 ml 065639 100 ml 065640 250 ml 065641 500 ml 065642</p>	<p>5 Front Sleeve</p> <p>20 ml 100288 50 ml 100312 100 ml 100333 250 ml 100352 500 ml 100372</p>	<p>6 Rear Sleeve</p> <p>20 ml 100289 50 ml 100313 100 ml 100334 250 ml 100353 500 ml 100373</p>



<p>7 Valve Stem</p> <p>20 ml 100296 50 ml 100320 100 ml 100341 250 ml 100360 500 ml 100379</p>	<p>8 Stem cap</p> <p>20/50 ml 100298 100/250/ 500 ml 100343</p>	<p>9 Valve stem guide</p> <p>20 ml 100297 50 ml 100321 100 ml 100342 250/500 ml 100361</p>
<p>10 Front Packing</p> <p>20 ml 065937 50 ml 065939 100 ml 065940 250 ml 065941 500 ml 065942</p>	<p>11 Plunger Rod</p> <p>20 ml 065437 50 ml 065439 100 ml 065440 250 ml 065441 500 ml 065442</p>	<p>12 Plunger Tip</p> <p>20 ml 065537 50 ml 065539 100 ml 065540 250 ml 065541 500 ml 065542</p>

C-160 Series Syringes



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

Leak-tight
up to
250
psi



Syringe with **FIXED** Needle

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

5 µl	.....	160021
10 µl	.....	160022
25 µl	.....	160023
50 µl	.....	160024
100 µl	.....	160025

Replacement Plunger Assembly

5 µl	.....	163721	50 µl	.....	163724
10 µl	.....	163722	100 µl	.....	163725
25 µl	.....	163723			

Syringe with **Removable** Needle

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

5 µl	.....	160221
10 µl	.....	160222
25 µl	.....	160223
50 µl	.....	160224
100 µl	.....	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 syringe barrel syringe which is leak-tight to 250 psi for liquids and gases. Extended design permits attachment of vacuum bulb.

5 μ l	.....	120021	50 μ l	.....	120024
10 μ l	.....	120022	100 μ l	.....	120025
25 μ l	.....	120023			

Plunger Assembly

5 μ l	.....	123721	50 μ l	.....	054124
10 μ l	.....	123722	100 μ l	.....	054125
25 μ l	.....	054123			



Leak-tight
up to
250
psi



CG-130 Series Syringes



Features include a reinforced plunger to eliminate bending, plunger guide in barrel 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

5 µl	.....	130021
10 µl	.....	130022

Syringe - Removable Needle

5 µl	130221
10 µl	130222

Replacement Needle - Bevel Open End



019" x .005" x 2.25"	123050
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Replacement Plunger Assembly

5 µl	133721
10 µl	133722

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.



Liquids only up to
30^{psi}

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 μ l Syringe	.....	140011
2 μ l Syringe	.....	140012
5 μ l Syringe	.....	140021
10 μ l Syringe	.....	140022

Replacement Parts



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



Replacement Needles

Blunt

1 μ l .019" x .005" x 2.5" 923011

2 μ l .019" x .008" x 2.5" 923012

Bevel

5 μ l .028" x .012" x 2.5" 923021

Sideport

10 μ l .028" x .019" x 2.5" 923022



Plunger Assembly

1 ul 143711

2 ul 143712

5 ul 143721

10 ul 143722



Plunger Packing

1 ul 144011

2 ul 144012

5 ul 144021

10 ul 144022



Barrel Assembly

1 ul 143211

2 ul 143212

5 ul 143221

10 ul 143222

Mini Injector Series Syringes

Reproducible sample injections down to 0.01 μ l 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.

.01 μ l 170091
.10 μ l 170001


Replacement Wipers

.01 μ l & .10 μ l 100667



Samples
down to
.01
 μ l

Syringes for Valco, Cheminert and Rheodyne/IDEX Valves



Pack of
3

Replacement Needles

Blunt Tip Open End

Needle Size 22 gauge x 2" 123050R

Seals at
250
psi

Fixed Needle Syringes

5 µl 160021R
 10 µl 160022R
 25 µl 160023R
 50 µl 160024R
 100 µl 160025R

Removable Needle Syringes

5 µl 160221R
 10 µl 160222R
 25 µl 160223R
 50 µl 160224R
 100 µl 160225R

Many 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 PEEK tip which extends beyond the end of the needle so that only PEEK contacts the valve sealing surfaces.

Special Syringes for IDEX/Rheodyne valves



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



Leak-tight up to **250^{psi}**

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

Needle size 22 gauge x 2" long

5 µl	.....	160021RT
10 µl	.....	160022RT
25 µl	.....	160023RT
50 µl	.....	160024RT
100 µl	.....	160025RT

Syringe with Removable Needle

Needle size 22 gauge x 2" long

5 µl	.....	160221RT
10 µl	.....	160222RT
25 µl	.....	160223RT
50 µl	.....	160224RT
100 µl	.....	160225RT

Replacement Needles

Needle size 22 gauge x 2" long

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

Leak-tight
up to
500
psi



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 μl to 5.0 μl .

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
.5 µl - 5 µl Sideport 100838



Pressure-Flo[®] Syringes



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

Seals at
500
psi



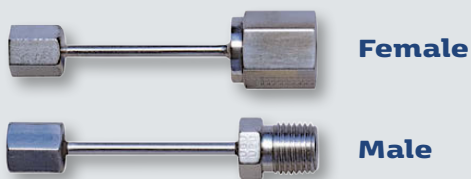
Lightweight syringe body for easy handling. The sample is contained within the calibrated needle which can be injected directly through the GC septum inlet. A special crimped PTFE packing which seals firmly at pressures up to 500 psi even under severe operating conditions.

Threads allow the syringe to make up on a cylinder via the special bomb adapters (see image, right). 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
1 µl	.....	220011
2 µl	.....	220012
5 µl	.....	220021
10 µl	.....	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 µl, 2 µl, 5 µl, 10 µl	.....	220352

Plunger packing

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

Plunger Assembly

.5 µl	.....	220315
1 µl	.....	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.

100 μ l	.....	020025
250 μ l	.....	020031

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.

250 μ l	.....	180031
550 μ l	.....	180032
1 ml	.....	180033



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 leak-tight fit.

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

Up to 120°F

50
psi



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

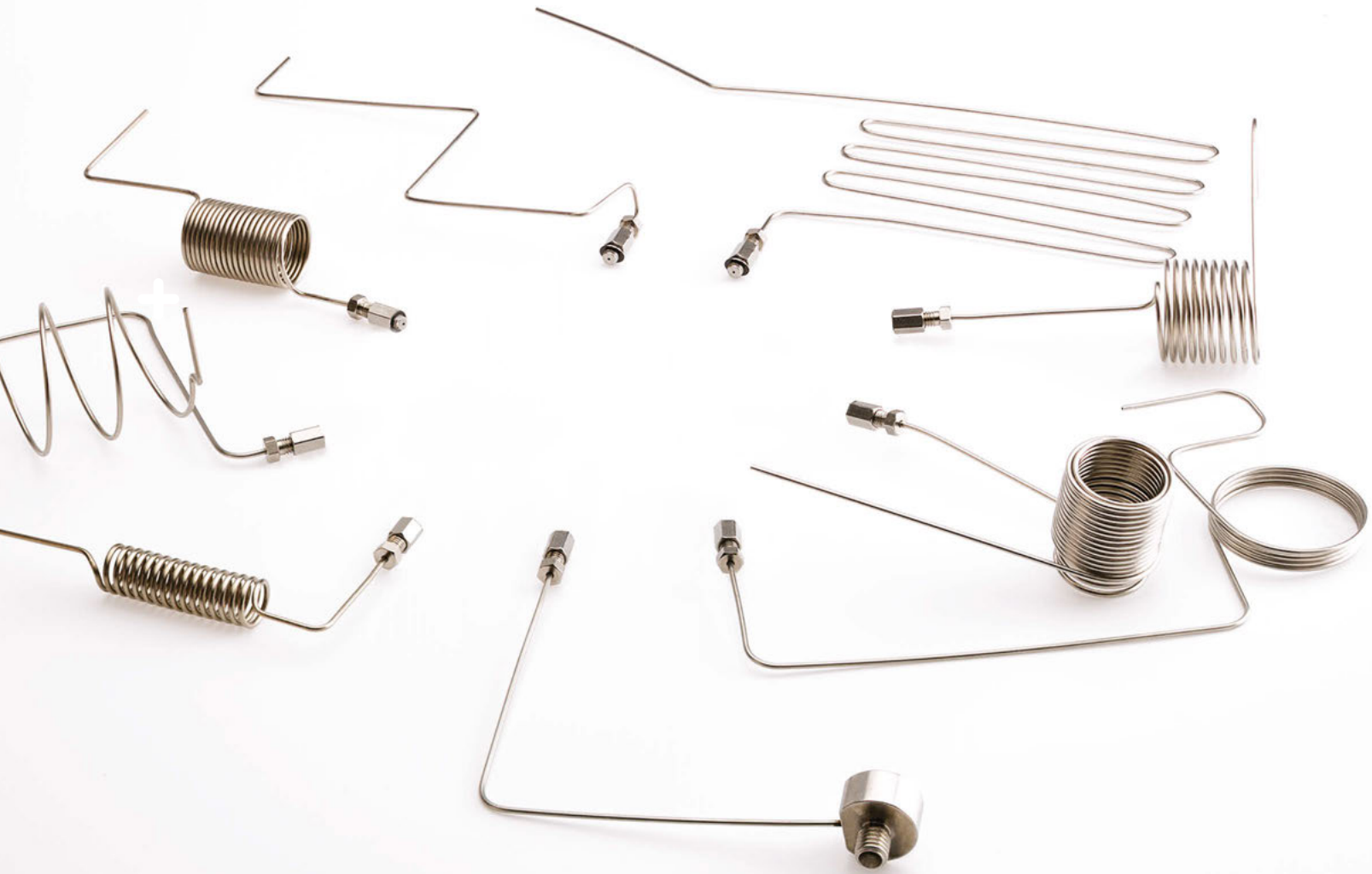
These silicone septa fit all Mininert valves. The installation tool is a handy device for quickly removing and replacing needle seal septa.



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 is expert at custom tube 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 formed 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.



1 /32" Pre-cut Stainless Tubing



Precisely cut tubing without the custom price. Packages of pre-cut Type 316 stainless tubing provide an economical solution to issues caused as a result of "ad-hoc" cutting in the lab or field.



2 Pack

●	5 cm (.005" ID)	T5N5D
	5 cm (.010" ID)	T5N10D
	5 cm (.020" ID)	T5N20D
●	10 cm (.005" ID)	T10N5D
	10 cm (.010" ID)	T10N10D
	10 cm (.020" ID)	T10N20D
●	20 cm (.005" ID)	T20N5D
	20 cm (.010" ID)	T20N10D
	20 cm (.020" ID)	T20N20D
●	30 cm (.005" ID)	T30N5D
	30 cm (.010" ID)	T30N10D
	30 cm (.020" ID)	T30N20D
●	50 cm (.005" ID)	T50N5D
	50 cm (.010" ID)	T50N10D
	50 cm (.020" ID)	T50N20D
●	100 cm (.005" ID)	T100N5D
	100 cm (.010" ID)	T100N10D
	100 cm (.020" ID)	T100N20D



10 Pack


●	5 cm (.005" ID)	T5N5-10
	5 cm (.010" ID)	T5N10-10
	5 cm (.020" ID)	T5N20-10
●	10 cm (.005" ID)	T10N5-10
	10 cm (.010" ID)	T10N10-10
	10 cm (.020" ID)	T10N20-10
●	20 cm (.005" ID)	T20N5-10
	20 cm (.010" ID)	T20N10-10
	20 cm (.020" ID)	T20N20-10
●	30 cm (.005" ID)	T30N5-10
	30 cm (.010" ID)	T30N10-10
	30 cm (.020" ID)	T30N20-10
●	50 cm (.005" ID)	T50N5-10
	50 cm (.010" ID)	T50N10-10
	50 cm (.020" ID)	T50N20-10
●	100 cm (.005" ID)	T100N5-10
	100 cm (.010" ID)	T100N10-10
	100 cm (.020" ID)	T100N20-10


Cleaning: All pre-cut stainless tubing is electrolytically cut, deburred, and specially steam-cleaned with micro-filtered steam from deionized water, which removes both organic and inorganic contaminants.


Save on multi-packs





50 Pack



 5 cm (.005" ID) T5N5-50
 5 cm (.010" ID) T5N10-50
 5 cm (.020" ID) T5N20-50


 10 cm (.005" ID) T10N5-50
 10 cm (.010" ID) T10N10-50
 10 cm (.020" ID) T10N20-50


 20 cm (.005" ID) T20N5-50
 20 cm (.010" ID) T20N10-50
 20 cm (.020" ID) T20N20-50



 30 cm (.005" ID) T30N5-50
 30 cm (.010" ID) T30N10-50
 30 cm (.020" ID) T30N20-50



 50 cm (.005" ID) T50N5-50
 50 cm (.010" ID) T50N10-50
 50 cm (.020" ID) T50N20-50



 100 cm (.005" ID) T100N5-50
 100 cm (.010" ID) T100N10-50
 100 cm (.020" ID) T100N20-50





100 Pack



 5 cm (.005" ID) T5N5-100
 5 cm (.010" ID) T5N10-100
 5 cm (.020" ID) T5N20-100


 10 cm (.005" ID) T10N5-100
 10 cm (.010" ID) T10N10-100
 10 cm (.020" ID) T10N20-100


 20 cm (.005" ID) T20N5-100
 20 cm (.010" ID) T20N10-100
 20 cm (.020" ID) T20N20-100


 30 cm (.005" ID) T30N5-100
 30 cm (.010" ID) T30N10-100
 30 cm (.020" ID) T30N20-100


 50 cm (.005" ID) T50N5-100
 50 cm (.010" ID) T50N10-100
 50 cm (.020" ID) T50N20-100


 100 cm (.005" ID) T100N5-100
 100 cm (.010" ID) T100N10-100
 100 cm (.020" ID) T100N20-100

1 /16" Pre-cut Stainless Tubing



Packages of pre-cut Type 316 stainless tubing provide an economical solution to the problems that are caused by crude cutting options available while out in the field.



2 Pack

10 Pack

5 cm Length	10 cm Length
.005" ID T5C5D	.005" ID T10C5D
.010" ID T5C10D	.010" ID T10C10D
.020" ID T5C20D	.020" ID T10C20D
.030" ID T5C30D	.030" ID T10C30D
.040" ID T5C40D	.040" ID T10C40D

5 cm Length	10 cm Length
.005" ID T5C5-10	.005" ID T10C5-10
.010" ID T5C10-10	.010" ID T10C10-10
.020" ID T5C20-10	.020" ID T10C20-10
.030" ID T5C30-10	.030" ID T10C30-10
.040" ID T5C40-10	.040" ID T10C40-10

20 cm Length	30 cm Length
.005" ID T20C5D	.005" ID T30C5D
.010" ID T20C10D	.010" ID T30C10D
.020" ID T20C20D	.020" ID T30C20D
.030" ID T20C30D	.030" ID T30C30D
.040" ID T20C40D	.040" ID T30C40D

20 cm Length	30 cm Length
.005" ID T20C5-10	.005" ID T30C5-10
.010" ID T20C10-10	.010" ID T30C10-10
.020" ID T20C20-10	.020" ID T30C20-10
.030" ID T20C30-10	.030" ID T30C30-10
.040" ID T20C40-10	.040" ID T30C40-10

50 cm Length	100 cm Length
.005" ID T50C5D	.005" ID T100C5D
.010" ID T50C10D	.010" ID T100C10D
.020" ID T50C20D	.020" ID T100C20D
.030" ID T50C30D	.030" ID T100C30D
.040" ID T50C40D	.040" ID T100C40D

50 cm Length	100 cm Length
.005" ID T50C5-10	.005" ID T100C5-10
.010" ID T50C10-10	.010" ID T100C10-10
.020" ID T50C20-10	.020" ID T100C20-10
.030" ID T50C30-10	.030" ID T100C30-10
.040" ID T50C40-10	.040" ID T100C40-10

Save on multi-packs



Particles left in poorly cut tubing are the number one cause of valve damage. Avoid the stress, let VICI Precision Sampling's 5 decades of experience provide a solution before there is a problem.



50 Pack

5 cm Length	10 cm Length
.005" ID T5C5-50	.005" ID T10C5-50
.010" ID T5C10-50	.010" ID T10C10-50
.020" ID T5C20-50	.020" ID T10C20-50
.030" ID T5C30-50	.030" ID T10C30-50
.040" ID T5C40-50	.040" ID T10C40-50
20 cm Length	30 cm Length
.005" ID T20C5-50	.005" ID T30C5-50
.010" ID T20C10-50	.010" ID T30C10-50
.020" ID T20C20-50	.020" ID T30C20-50
.030" ID T20C30-50	.030" ID T30C30-50
.040" ID T20C40-50	.040" ID T30C40-50
50 cm Length	100 cm Length
.005" ID T50C5-50	.005" ID T100C5-50
.010" ID T50C10-50	.010" ID T100C10-50
.020" ID T50C20-50	.020" ID T100C20-50
.030" ID T50C30-50	.030" ID T100C30-50
.040" ID T50C40-50	.040" ID T100C40-50



100 Pack

5 cm Length	10 cm Length
.005" ID T5C5-100	.005" ID ... T10C5-100
.010" ID T5C10-100	.010" ID ... T10C10-100
.020" ID T5C20-100	.020" ID ... T10C20-100
.030" ID T5C30-100	.030" ID ... T10C30-100
.040" ID T5C40-100	.040" ID ... T10C40-100
20 cm Length	30 cm Length
.005" ID T20C5-100	.005" ID ... T30C5-100
.010" ID T20C10-100	.010" ID ... T30C10-100
.020" ID T20C20-100	.020" ID ... T30C20-100
.030" ID T20C30-100	.030" ID ... T30C30-100
.040" ID T20C40-100	.040" ID ... T30C40-100
50 cm Length	100 cm Length
.005" ID T50C5-100	.005" ID ... T100C5-100
.010" ID T50C10-100	.010" ID ... T100C10-100
.020" ID T50C20-100	.020" ID ... T100C20-100
.030" ID T50C30-100	.030" ID ... T100C30-100
.040" ID T50C40-100	.040" ID ... T100C40-100



Color Coded PEEK Tubing



Premium grade tubing with tighter tolerances. Easy to cut and biocompatible.

Color-coding identifies the ID of your PEEK tubing – each ID is coded with a different color.

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel.

The polymer surface will not leach metal ions into the eluant or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.

1 /16" OD Color Coded PEEK Tubing



Packages of pre-cut color coded PEEK tubing provide an economical solution to the problems that are caused by crude cutting options available while out in the field. Available in lengths of 5 ft, 10 ft, and 25 ft.

52 bar / 750 psi .055" ID

Striped Black-5 ft JR-T-60032-F5
 Striped Black-10 ft JR-T-60032-F10
 Striped Black-25 ft JR-T-60032-F25

165 bar / 2400 psi .040" ID

Striped Gray-5 ft JR-T-60031-F5
 Striped Gray-10 ft JR-T-60031-F10
 Striped Gray-25 ft JR-T-60031-F25

240 bar / 3500 psi .030" ID

Striped Green-5 ft JR-T-6003-F5
 Striped Green-10 ft JR-T-6003-F10
 Striped Green-25 ft JR-T-6003-F25

240 bar / 3500 psi .030" ID

Solid Green-5 ft JR-T-6011-F5
 Solid Green-10 ft JR-T-6011-F10
 Solid Green-25 ft JR-T-6011-F25

350 bar / 4500 psi .020" ID

Striped Orange-5 ft ... JR-T-6002-F5
 Striped Orange-10 ft ... JR-T-6002-F10
 Striped Orange-25 ft ... JR-T-6002-F25

350 bar / 4500 psi .020" ID

Solid Orange-5 ft JR-T-6010-F5
 Solid Orange-10 ft JR-T-6010-F10
 Solid Orange-25 ft JR-T-6010-F25

386 bar / 5600 psi .010" ID

Striped Blue-5 ft JR-T-6001-F5
 Striped Blue-10 ft JR-T-6001-F10
 Striped Blue-25 ft JR-T-6001-F25

386 bar / 5600 psi .010" ID

Solid Blue-5 ft JR-T-6009-F5
 Solid Blue-10 ft JR-T-6009-F10
 Solid Blue-25 ft JR-T-6009-F25

400 bar / 5800 psi .007" ID

Striped Yellow-5 ft JR-T-6000-F5
 Striped Yellow-10 ft JR-T-6000-F10
 Striped Yellow-25 ft JR-T-6000-F25

400 bar / 5800 psi .007" ID

Solid Yellow-5 ft JR-T-6008-F5
 Solid Yellow-10 ft JR-T-6008-F10
 Solid Yellow-25 ft JR-T-6008-F25

460 bar / 6700 psi .005" ID

Striped Red-5 ft JR-T-5999-F5
 Striped Red-10 ft JR-T-5999-F10
 Striped Red-25 ft JR-T-5999-F25

460 bar / 6700 psi .005" ID

Solid Red-5 ft JR-T-6007-F5
 Solid Red-10 ft JR-T-6007-F10
 Solid Red-25 ft JR-T-6007-F25

Custom Cut Metal Tubing



Metal tubing is electrolytically cut and deburred, then steam cleaned. For pricing of custom tubing, the length is rounded up to the next foot.

For example, a 5" piece is charged as one foot; an 18" piece as two feet. Add to cutting/cleaning, additional charge for each length.



316 Stainless Steel

1 /32" Tubing

.005" ID	.....	TSS.505
.007" ID	.....	TSS.507
.010" ID	.....	TSS.510
.020" ID	.....	TSS.520

1 /16" Tubing

.005" ID	.....	TSS105
.010" ID	.....	TSS110
.020" ID	.....	TSS120
.026" ID	.....	TSS126
.030" ID	.....	TSS310
.040" ID	.....	TSS140
.050" ID	.....	TSS150

1 /8" Tubing

.030" ID	.....	TSS230
.040" ID	.....	TSS240
.060" ID	.....	TSS260
.070" ID	.....	TSS267
.085" ID	.....	TSS285

Nickel 200

1 /32" Tubing

.007" ID	TNI.507
.010" ID	TNI.510
.020" ID	TNI.520

1 /8" Tubing

.085" ID	TNI285
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1 /16" Tubing

.005" ID	TNI105
.010" ID	TNI110
.020" ID	TNI120
.030" ID	TNI130
.040" ID	TNI140

Hastelloy C

1 /16" OD

.010" ID	.....	THC110
.020" ID	.....	THC120
.030" ID	.....	THC130
.040" ID	.....	THC140

1 /8" Tubing

.070" ID	.....	THC270
.085" ID	.....	THC285

Titanium

1 /16" OD

.012" ID	.....	TTI112
.020" ID	.....	TTI120
.031" ID	.....	TTI131

Custom Cut Polymeric Tubing



Polymeric tubing is precisely cut and ready to use. Specify the length required, in inches or feet. For pricing of custom tubing, the length is rounded up to the next foot. For example, a 5" piece is charged as one foot; an 18" piece as two feet.

PTFE Tubing

1 /16" OD Tubing

- .006" ID TTF106
- .010" ID TTF110
- .015" ID TTF115
- .020" ID TTF120
- .030" ID TTF130
- .040" ID TTF140

1 /8" OD Tubing

- .030" ID TTF230
- .060" ID TTF260
- .085" ID TTF285

FEP Tubing

1 /16" OD Tubing

- .010" ID TFEP110
- .020" ID TFEP120
- .030" ID TFEP130

1 /8" OD Tubing

- .060" ID TFEP260

PEEK Tubing

1 /16" OD Tubing

- .006" ID TPK106
- .010" ID TPK110
- .015" ID TPK115
- .020" ID TPK120
- .030" ID TPK130

1 /8" OD Tubing

- .060" ID TPK260

ETFE Tubing

1 /16" OD Tubing

- .010" ID TTZ110
- .020" ID TTZ120
- .030" ID TTZ130

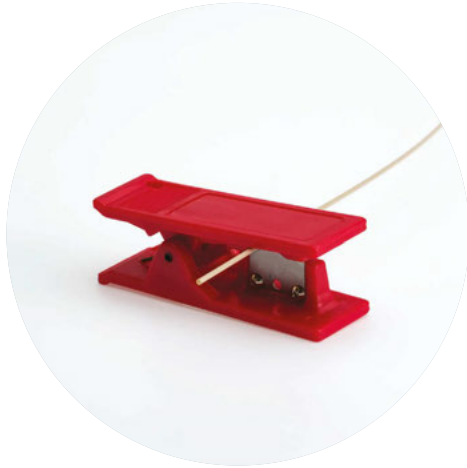
1 /8" OD Tubing

- .060" ID TTZ260

Tubing Accessories



We carry a large selection of cutting tools for tubing and components to control and properly route various tubing applications.



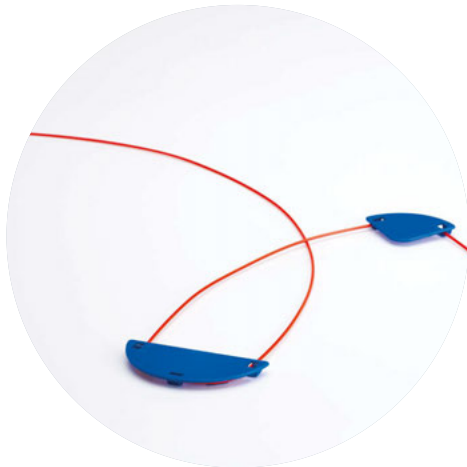
Clean-cut tubing cutter

For polymeric tubing ··· JR-797



Guillotine tubing cutter

For polymeric tubing ··· JR-794
Replacement blade ···· JR-795



Tubing elbows

For routing 1/16" PEEK tubing
90° ···· JR-357090
180° ···· JR-357180

These elbows are proportioned to bend PEEK tubing at the optimum radius in an LC system.



Tubing clip

With stainless steel spring
JR-9001

The tubing clip holds both 1/16" and 1/8" polymer tubes precisely where they should be in your beakers, flasks and bottles up to 4 mm wall thickness. Stainless steel spring for extended life.

DIY Tubing Flange Sets



Easy-to-assemble tubing lengths for any required dimension.



Easy-Flange Kit

The Easy-Flange Combi Kit comes complete with PTFE tubing, PPS nuts, and polypropylene rings, in two sizes. Conical profile design yields an ideal shape for optimized sealing properties.

JR-201540

Easy-Flange Combi Kit

JR-201539



Flange Tool

Makes a flange that retains the standard tube end fitting and washer on PTFE or FEP tubing. This tool can be used to easily assemble lengths of tubing to any required dimension.

110 VAC CFT-110

230 VAC CFT-220

Not CE certified.

PEEK Sample Loops

Our PEEK loops include striped color-coded PEEK tubing and PEEK fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications. PEEK sample loops are particularly well suited for separations involving proteins, peptides, nucleic acids or other samples of biological origin as well as in IC systems where metal traces may interact with ionic samples or release transition metals that may deactivate ion exchange columns.



PEEK Loops for IDEX/ Rheodyne Valves

435 bar
6300
psi

1 μ l	JR-SLR-2190
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420 bar
6100
psi

2 μ l	JR-SLR-2191
3 μ l	JR-SLR-2192
4 μ l	JR-SLR-2193

400 bar
5600
psi

5 μ l	.....	JR-SLR-2194
10 μ l	.....	JR-SLR-2196

386 bar
5600
psi

20 μ l	.....	JR-SLR-2195
30 μ l	.....	JR-SLR-2200
40 μ l	.....	JR-SLR-2201

350 bar
4500
psi

50 μ l	.....	JR-SLR-2202
100 μ l	.....	JR-SLR-2204
200 μ l	.....	JR-SLR-2206
250 μ l	.....	JR-SLR-2207
500 μ l	.....	JR-SLR-2210
1 ml	.....	JR-SLR-2222



PEEK Loops for Cheminert Valves

400 bar
5800
psi

5 μ l	.....	JR-SLC-85-5
10 μ l	.....	JR-SLC-85-10
20 μ l	.....	JR-SLC-85-20
50 μ l	.....	JR-SLC-85-50
100 μ l	.....	JR-SLC-85-100

240 bar
3500
psi

250 μ l	.....	JR-SLC-85-250
500 μ l	.....	JR-SLC-85-500
1 ml	.....	JR-SLC-85-1000



PEEK Loops for Valco UW Type valves

240 bar
3500
psi

250 μ l	.....	JR-SLV-75-250
500 μ l	.....	JR-SLV-75-500
1 ml	.....	JR-SLV-75-1000

400 bar
5800
psi

5 μ l	.....	JR-SLV-75-5
10 μ l	.....	JR-SLV-75-10
20 μ l	.....	JR-SLV-75-20
50 μ l	.....	JR-SLV-75-50
100 μ l	.....	JR-SLV-75-100

Stainless Steel Sample Loops



VICI Jour stainless steel loops are made of high quality 316 stainless, cut with an electrolytic cutting process followed by ultrasonic and high pressure steam cleaning. After drying, loops are capped with softener-free caps to prevent recontamination during shipment and storage.



Stainless Steel Loops for Valco UW Type valves

5 μ l	.....	JR-SLV-76-5
10 μ l	.....	JR-SLV-76-10
20 μ l	.....	JR-SLV-76-20
50 μ l	.....	JR-SLV-76-50
100 μ l	.....	JR-SLV-76-100
250 μ l	.....	JR-SLV-76-250
500 μ l	.....	JR-SLV-76-500
1 ml	.....	JR-SLV-76-1000



Stainless Steel Loops for Cheminert valves

5 μ l	.....	JR-SLC-86-5
10 μ l	.....	JR-SLC-86-10
20 μ l	.....	JR-SLC-86-20
50 μ l	.....	JR-SLC-86-50
100 μ l	.....	JR-SLC-86-100
200 μ l	.....	JR-SLC-86-200
250 μ l	.....	JR-SLC-86-250
500 μ l	.....	JR-SLC-86-500
1 ml	.....	JR-SLC-86-1000



Stainless Steel Loops for IDEX/Rheodyne Valves

5 μ l	.....	JR-SLR-111
10 μ l	.....	JR-SLR-112
20 μ l	.....	JR-SLR-113
50 μ l	.....	JR-SLR-114
100 μ l	.....	JR-SLR-115
200 μ l	.....	JR-SLR-116
500 μ l	.....	JR-SLR-117
1 ml	.....	JR-SLR-118

For IDEX/Rheodyne # 7725 Valves

5 μ l	.....	JR-SLR-111-77
10 μ l	.....	JR-SLR-112-77
20 μ l	.....	JR-SLR-113-77
50 μ l	.....	JR-SLR-114-77
100 μ l	.....	JR-SLR-115-77
200 μ l	.....	JR-SLR-116-77
500 μ l	.....	JR-SLR-117-77
1 ml	.....	JR-SLR-118-77



Flangeless Low Pressure Fittings



An effective way to create a seal with little distortion and no dead volume.

Flangeless tube end fittings

Cheminert low pressure fittings are ideally suited for flow injection analysis, low pressure liquid chromatography, and stream sampling devices. They may be safely used at pressures up to 500 psi and temperatures to 50° C. Two designs of low pressure tube end fittings are available. Flangeless tube end fittings utilize our new collapsible ferrule, which grips the tubing as the fitting is tightened without significantly reducing the tube ID. Standard tube end fittings are retained on polymeric tubing by a flange formed with a Cheminert flanging tool.

Includes our collapsible ferrule

The assembly is rated at 500 psi liquid when tightened by hand. Since only the tubing and the ferrule come into contact with the solution, the result is an inert system. Use CTFE ferrules for soft tubing (PTFE, FEP, etc.), but use PEEK ferrules for harder tubing (PEEK, ETFE, polyurethane, etc.)

Cheminert tube end fittings work with any 1/16" or 1/8" OD polymeric tubing, and come in twelve different colors for system color coding.

Colors to Identify Connections



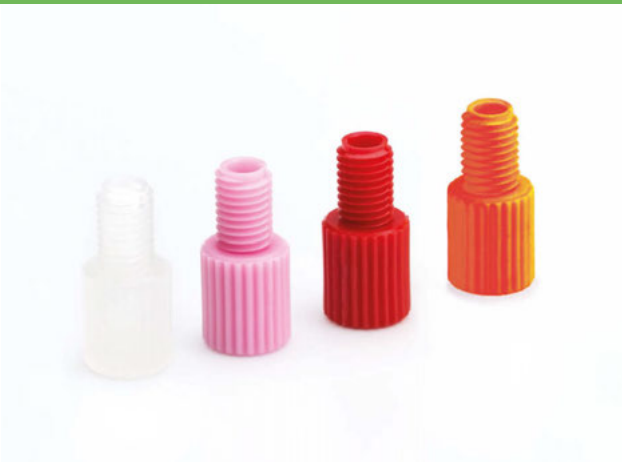
Keep lines and connections organized and identified with our colorful low pressure fittings.

5
Pack



	1/16"	1/8"
Black	CFL-1BK	CFL-2BK
Dk Gray	CFL-1DG	CFL-2DG
White	CFL-1W	CFL-2W
Purple	CFL-1P	CFL-2P

	1/16"	1/8"
Natural	CFL-1N	CFL-2N
Pink/ Lavender	CFL-1L	CFL-2L
Orange	CFL-1E	CFL-2E
Red	CFL-1R	CFL-2R
Yellow	CFL-1Y	CFL-2Y



	1/16"	1/8"
Yellow	CFL-1Y	CFL-2Y
Green	CFL-1G	CFL-2G
Blue	CFL-1BE	CFL-2BE
Brown	CFL-1BR	CFL-2BR

Low Pressure Fittings



Cheminert low pressure fittings are ideally suited for flow injection analysis, low pressure liquid chromatography, and stream sampling devices.



Cheminert Low Pressure Tees

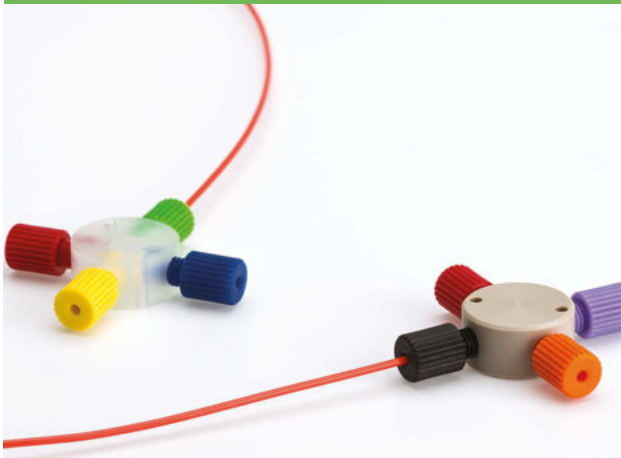
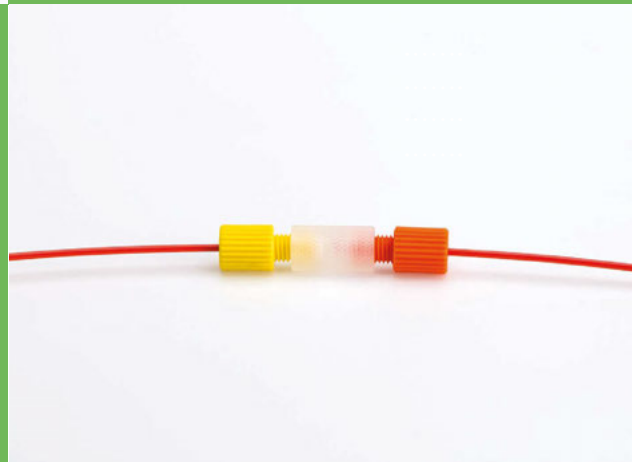
Includes flangeless 1/4-28 fittings.

	PEEK	CTFE
1/16" OD .75 Bore	CTMPK	CTMKF
1/8" OD 1.5 Bore	CTLPK	CTLKF

Cheminert Low Pressure Unions

Includes flangeless 1/4-28 fittings for tubing OD indicated.

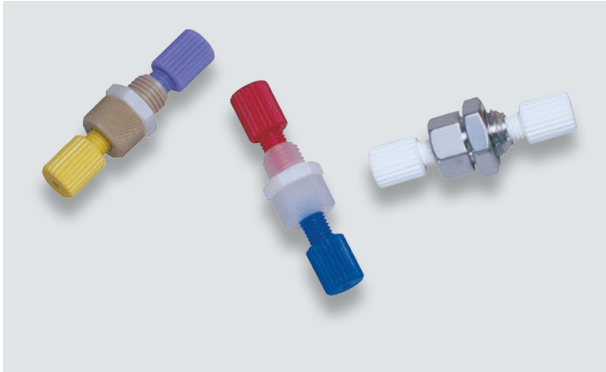
For OD Tubing	PEEK	CTFE
1/16" .50mm	CUPK	CUKF
1/16" .75mm	CUMPK	CUMKF
1/8" 1.5mm	CULPK	CULKF
1/8" Butt Connection	CUTPK	CUTKF



Cheminert Low Pressure Crosses

Includes flangeless 1/4-28 fittings.

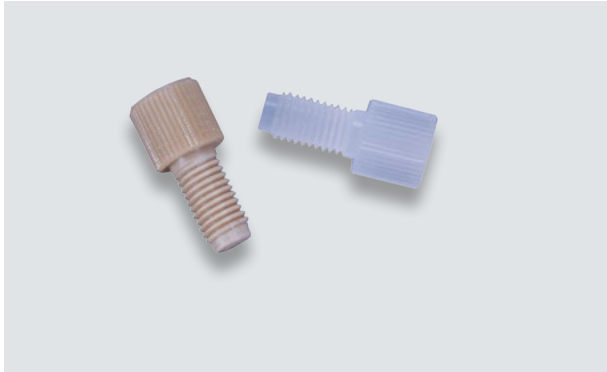
	PEEK	CTFE
1/16" OD .75 Bore	CXMPK	CXMKF
1/8" OD 1.5 Bore	CXLPK	CXLKF



Bulkhead Unions

Cheminert to Cheminert 1/4-28 to 1/4-28 includes flangeless 1/4-28 fittings for tubing OD indicated.

	1/16" OD .75 Bore		1/8" OD 1.5 Bore
PEEK	CBUMPK	.....	CBULPK
CTFE	CBUMKF	.....	CBULKF
316 Stainless	CBUMS6	.....	CBULS6

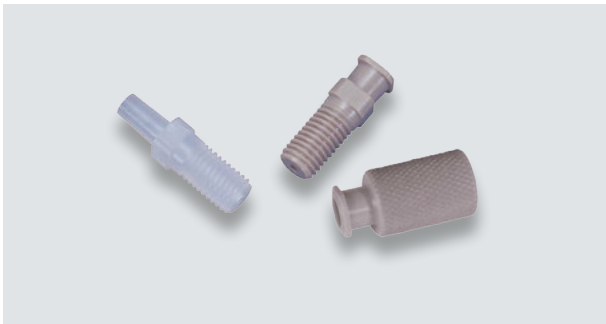


Plugs

Plugs can be used to close off an unused port in a 1/4-28.

5
Pack

PEEK Plug	CPPK
CTFE Plug	CPKF



Luer adapters

These Luer adapters with 150 mm bore make a leak-tight connection from male or female luer to 1/4-28 threads.

	Female		Male
PEEK	CFLAPK	.....	CMLAPK
CTFE	CFLAKF	.....	CMLAKF
PFA	CFLAPFA	.....	CMLAPFA



1/16" PEEK Plugs

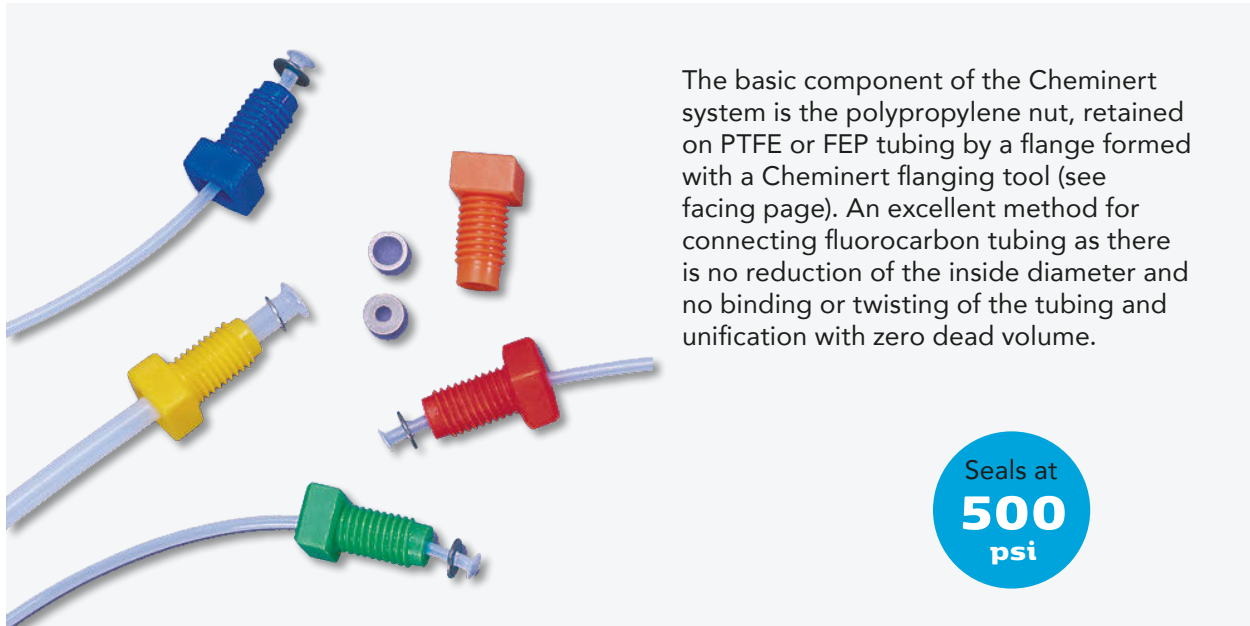
These all-PEEK plugs are for use in Cheminert PEEK fittings and low pressure polymeric valves (C20Z and C30Z series).

Hex (.62" L of Nut)	MZP1PK
Long Hex (.87" L of Nut)	LZP1PK
Fingertight (.88" mm L of Nut)	ZP1FPK

Flanged Low Pressure Tube End Fittings



An excellent method for connecting fluorocarbon tubing and an ideal fitting for biological systems.



The basic component of the Cheminert system is the polypropylene nut, retained on PTFE or FEP tubing by a flange formed with a Cheminert flanging tool (see facing page). An excellent method for connecting fluorocarbon tubing as there is no reduction of the inside diameter and no binding or twisting of the tubing and unification with zero dead volume.

Seals at
500
psi

Flanged fittings

Tube end fittings attach directly to Cheminert valves and fittings, easily joined together with a union. A finger-tight, leak-free seal arrives at 500 psi liquid, or for the long-term, a wrench could be used to apply an additional 1/8 turn. Cheminert 1/4-28 tube end fittings come in twelve different colors for system color coding: black, blue, brown, dark gray, green, lavender, pink, natural, orange, purple, red, white, and yellow. All twelve colors come packaged together. Packages include the same number of washers as fittings.

- 12 different colors options for system color coding
- Available for 1/16" or 1/8" OD fluorocarbon tubing
- Tube end fittings attach directly to Cheminert valves and fittings
- Easily join to each other with a union.
- Finger-tightness is all that is required to make a leak-free seal

Assorted pkg/12, one of each color

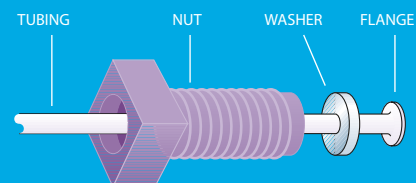
1/16" OD **CF-1A**

1/8" OD **CF-2A**

Additional washers (pkg/10)

1/16" OD **CF-W1**

1/8" OD **CF-W2**



Flanged tube end fitting

Cheminert PEEK High Pressure Fittings

Cheminert PEEK high pressure fittings are rated at 5000 psi when manually tightened, exceeding the burst strength of most PEEK tubing.



Pack of **10**

Internal Nuts

For use in Cheminert polymeric valves with zero dead volume fittings. Alternative to standard stainless steel Valco nuts when polymeric ferrules are used (up to approximately 175°C) Fingertight nuts have knurled surface designed to provide sufficient sealing force on the ferrule without wrenches.

- 1/16" Hex (.45" L) ZN1PK-10**
- 1/16" Hex (.62" L) MZN1PK-10**
- 1/16" Fingertight (.88" L) ... ZN1FPK-10**
- 1/16" Hex (.87" L) LZN1PK-10**

Grooved PEEK Ferrules

Our patented* ferrules feature a grooved design that permits the ferrule to grip the tube in multiple places. Ferrules are excellent for tubing that is softer than the ferrule material. PEEK grooved ferrules work especially well on PTFE or FEP tubing. For PEEK tubing, use standard PEEK ferrules.

Pack of **10**



- 1/16" ZGF1PK-10**

*Patent no. 6,575,501



PEEK Plugs

For high pressure polymeric valves.

- 1/16" Hex Plug (.62" L) C-MZP1PK**
- 1/16" Long Hex Plug C-LZP1PK (.87" L)**

- 1/16" Fingertight Plug (.88" L) C-ZP1FPKL**



Pack of **10**

High pressure PEEK Ferrules

PEEK ferrules seal by the increased friction from compression.

- 1/16" Ferrules ZF1PK-10**

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.

Fittings not included. See pages 51 & 54

200
psi



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



Micro Valve Actuator



Designed as a low cost device for driving low cost, low pressure rotary valves in both OEM and standalone applications.



Micro Valve Actuator

The actuator is a 90 degree, 2-4 position, DC motor driven device with the capability to operate in both clockwise and counter-clockwise directions. Positioning of the valve is achieved through an integrated optical encoder. Digital I/O control is standard as well as RS-232 interfacing.

Product Specifications:

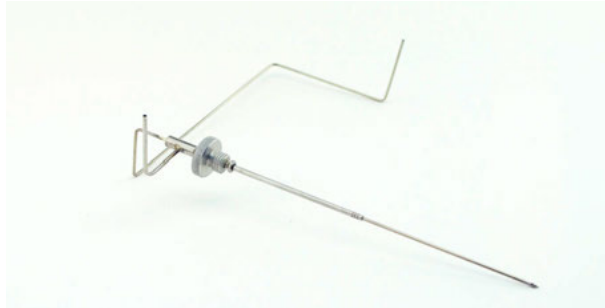
- Voltage Requirements: 24VDC @ .75A
- Digital I/O levels
- 5VCD TTL
- RS-232 Interface
- 8 Data bits, No Parity, 1 Stop bit, Programmable
- Baud 9600 (default)
- Max. Torque
- 145oz/in
- Positioning
- Optical Encoder

Micro Valve Actuator.....MVA

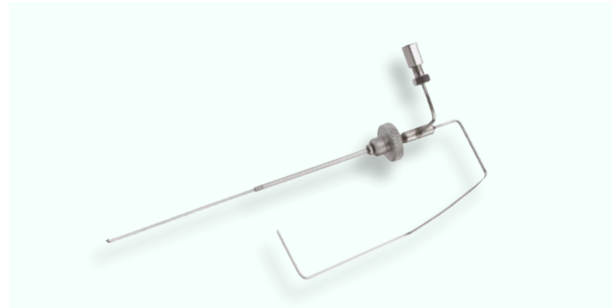
GC & LC Probes



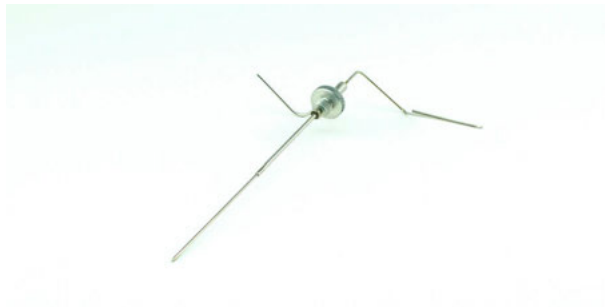
Probes are used to transfer a liquid sample from a sample vial to the injection syringe by pressurizing the sample vial with helium. **Agilent Archon Instruments**



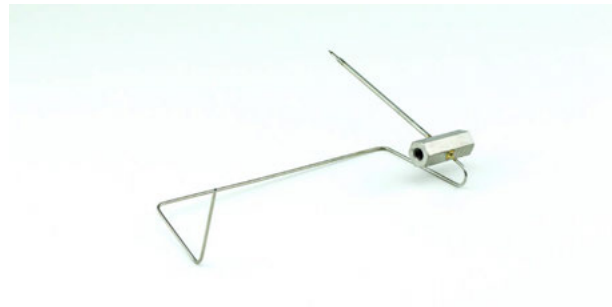
Water probe assembly
Probe with fittings 505739
Probe without fittings 505828



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

Part Number Index

A-Series Syringes

A-Series Syringes:

100 µl.....010025. P. 8
 250 µl.....010031. P. 8
 500 µl.....010032. P. 8
 1 ml.....010033. P. 8
 2 ml.....010034. P. 8
 5 ml.....010035. P. 8
 10 ml.....010036. P. 8

Replacement Needles

Bevel, open end...913050. P. 9
 Side port, taper....913052. P. 9

Plunger Assemblies

100 µl.....014425. P. 9
 250 µl.....014431. P. 9
 500 µl.....014432. P. 9
 1 ml.....014433. P. 9
 2 ml.....014434. P. 9
 5 ml.....014435. P. 9
 10 ml.....014436. P. 9

A-2 Series Syringes

Syringe with Standard Needle

25 µl.....050023. P. 10
 50 µl.....050024. P. 10
 100 µl.....050025. P. 11
 250 µl.....050031. P. 11
 500 µl.....050032. P. 11
 1 ml.....050033. P. 11
 2 ml.....050034. P. 11
 5ml.....050035. P. 11
 10 ml.....050036. P. 11

Syringe with Luer Lock Needle

25 µl.....050043-LL. P. 11
 - Standard.....050023-EB. P. 11
 - Luer Lock...050043-LL-EB. P. 11
 50 µl.....050044-LL. P. 11
 - Standard.....050024-EB. P. 11
 - Luer Lock...050044-LL-EB. P. 11
 100 µl.....050045-LL. P. 11
 250 µl.....050051-LL. P. 11
 500 µl.....050052-LL. P. 11
 1 ml.....050053-LL. P. 11
 2 ml.....050054-LL. P. 11
 5ml.....050055-LL. P. 11

10 ml.....050056-LL. P. 11

Plunger Tips

100 µl.....100017. P. 12
 250 µl.....100029. P. 12
 500 µl.....013932. P. 12
 1 ml.....013933. P. 12
 2 ml.....013934. P. 12
 5ml.....013935. P. 12
 10 ml.....013936. P. 12

Plunger Assemblies

25 µl.....054123. P. 12
 50 µl.....054124. P. 12
 100 µl.....014425. P. 12
 250 µl.....014431. P. 12
 500 µl.....014432. P. 12
 1 ml.....014433. P. 12
 2 ml.....014434. P. 12
 5ml.....014435. P. 12
 10 ml.....014436. P. 12[®]

Standard Pressure-Lok Needle

Bevel, open end .029" x .005" x 2"
943050. P.13
 Bevel, open end .029" x .012" x 2"
943051. P.13
 Side port taper.029" x .012" x 2"
943052. P.13

Luer Lock Needle

.028" x .006" x 2"943060. P. 13
 .028" x .012" x 2"943061. P. 13
 Side port taper.029" x .012" x 2"
943062. P.13

C Series Syringes

Syringes up to 1 ml

100 µl Standard Needle.....030025
 P. 14
 100 µl Luer Lock Needle.....030045-LL
 P. 14

Syringes up to 10 ml

2ml Standard Needle.....030034
 P. 14
 2ml Luer Lock Needle.....030054-LL
 P. 14
 5ml Standard Needle,.....030035 P. 14

5ml Luer Lock Needle.....030055-LL P. 14
 10 ml Standard Needle....030036 P. 14
 10ml Luer Lock Needle....030056-LL P. 14
 250ul Standard Needle...030031 P. 14
 250ul Luer Lock Needle...030051-LL P.14
 500ul Standard Needle...030032 P.14
 500ul Luer Lock Needle...030052-LL P. 14
 1ml Standard Needle.....030033 P.14
 1ml Luer Lock Needle.....030053-LL P.14

Syringe w/ Standard Needle

& Chaney Adapter

100 µl.....101430. P. 14
 250 µl.....101440. P. 14
 500 µl.....101448. P. 14
 1 ml.....101455. P. 14
 2 ml.....101463. P. 14
 5 ml.....101470. P. 14
 10 ml.....101478. P. 14

Plunger Tips

100 µl.....100017. P. 15
 250 µl.....100029. P. 15
 500 µl.....013932. P. 15
 1 ml.....013933. P. 15
 2 ml.....013934. P. 15
 5ml.....013935. P. 15
 10 ml.....013936. P. 15

Plunger Assemblies

100 µl.....014425. P. 15
 250 µl.....014431. P. 15
 500 µl.....014432. P. 15
 1 ml.....014433. P. 15
 2 ml.....014434. P. 15
 5ml.....014435. P. 15
 10 ml.....014436. P. 15

D Series Pressure-Lok[®] Syringes

D-Series Syringes

1ml Standard.....040033. P. 16
 1ml Luer Lock.....040053. P. 16
 2ml Standard.....040034. P. 16
 2ml Luer Lock.....040054. P. 16

Plunger Tips

1 ml.....013933. P. 16
 2 ml.....013934. P. 16

Part Number Index

Plunger Assemblies

1 ml.....044433. P. 16
2 ml.....044434. P. 16

Mininert Syringe Valves

Gas Syringe C and D.....654050 P. 16
Male Luer Fittings.....654051 P. 16

Magnum Series Syringes

Syringe with Standard Needle

20 ml.....060037. P. 18
50 ml.....060039. P. 18
100 ml.....060040. P. 18
250 ml.....060041. P. 18
500 ml.....060042. P. 18

Syringe with Luer-Lock Needle

20 ml.....060043. P. 18
50 ml.....060044. P. 18
100 ml.....060045. P. 18
250 ml.....060046. P. 18
500 ml.....060047. P. 18

Standard Pressure-Lock® Needle

Bevel, open end .035" x .023" x 2"
.....953050. P. 19
Side port taper .035" x .023" x 2"
.....953052. P. 19

Luer-Lock Needle

035" x .023" x 2"953050. P. 19
Side port taper .035" x .023" x 2"
.....953062. P. 19

Standard Nosepiece

20, 50, 100 ml.....065037. P. 20
250, 500 ml065041. P. 20

Luer-Lock Nosepiece

20,50,100 ml.....065042. P. 20
250, 500 ml.....065043. P. 20

Stem cap set screw

20, 50,100 ml 250, 500 ml
.....500635. P.20

Barrel Assembly

20 ml.....065637. P. 20
50 ml.....065639. P. 20
100 ml.....065640. P. 20
250 ml.....065641. P. 20
500 ml.....065642. P. 20

Front Sleeve

20 ml.....100288. P. 20
50 ml.....100312. P. 20
100 ml.....100333. P. 20
250 ml.....100352. P. 20
500 ml.....100372. P. 20

Rear Sleeve

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

Valve Stem

20ml.....100296. P. 20
50ml.....100320. P. 20
100 ml.....100341. P. 20
250ml.....100360. P. 20
500ml.....100379. P. 20

Stem cap

20, 50 ml.....100298. P. 20
100, 250, 500 ml.....100343. P. 20

Front Packing

20 ml.....065937. P. 20
50 ml.....065939. P. 20
100 ml.....065940. P. 20
250 ml.....065941. P. 20
500 ml.....065942. P. 20

Plunger Rod

20 ml.....065437. P. 20
50 ml.....065439. P. 20
100 ml.....065440. P. 20
250 ml.....065441. P. 20
500 ml.....065442. P. 20

Plunger Tip

20 ml.....065537. P. 20

50 ml.....065539. P. 20
100 ml.....065540. P. 20
250 ml.....065541. P. 20
500 ml.....065542. P. 20

C-160 Series Syringes

Syringe with FIXED Needle

5 µl.....160021. P. 21
10 µl.....160022. P. 21
25 µl.....160023. P. 21
50 µl.....160024. P. 21
100 µl.....160025. P. 21

Syringe with Removable Needle

5 µl.....160221. P. 21
10 µl.....160222. P. 21
25 µl.....160223. P. 21
50 µl.....160224. P. 21
100 µl.....160225. P. 21

Replacement Needles

Bevel, Open End .019" x .005" x 2.25"
.....123050. P. 21

Replacement Plunger Assembly

5 µl.....163721. P. 21
10 µl.....163722. P. 21
25 µl.....163723. P. 21
50 µl.....163724. P. 21
100 µl.....163725. P. 21

C-120 Series Syringes

C-120 Series Syringes

5 µl.....120021. P. 22
10 µl.....120022. P. 22
25 µl.....120023. P. 22
50 µl.....120024. P. 22
100 µl.....120025. P. 22

Plunger assembly

5 µl.....123721. P. 22
10 µl.....123722. P. 22
25 µl.....054123. P. 22
50 µl.....054124. P. 22
100 µl.....054125. P. 22

Part Number Index

CG-130 Series Syringes

Syringe - Fixed Needle

5 µl.....130021. P. 23
10 µl.....130022. P. 23

Syringe - Removable Needle

5 µl.....130221. P. 23
10 µl.....130222. P. 23

Replacement Plunger Assembly

5 µl.....133721. P. 23
10 µl.....133722. P. 23

Replacement Needle -Bevel Open End

019"x.005"x2.25"....123050. P. 23

Series D-140 Syringes

Syringe with Removable Needle

1 µl Syringe.....140011. P. 24
2 µl Syringe.....140012. P. 24
5 µl Syringe.....140021. P. 24
10 µl Syringe.....140022. P. 24

Replacement Needles

1 µl - .019" x .005" x 2.5"
.....923011. P. 25
2 µl - .019" x .008" x 2.5"
.....923012. P. 25
5 µl - .028" x .012" x 2.5"
.....923021. P. 25
10 µl - .028" x 018" x 2.5"
.....923022. P. 25

Plunger Assembly

1ul.....143711. P. 25
2ul.....143712. P. 25
5ul.....143721. P. 25
10ul.....143722. P. 25

Plunger Packing

1ul.....144011. P. 25
2ul.....144012. P. 25
5ul.....144021. P. 25
10ul.....144022. P. 25

Barrell Assembly

1ul.....143211 P.25

2ul.....143212. P. 25
5ul.....143221. P. 25
10ul.....143222. P. 25

Mini Injector Series Syringes

Mini Injector Syringes

.01 µl.....170091. P. 26
.10 µl.....170001. P. 26

Replacement Wipers

01 µl.....100667. P. 26
.10 µl.....100667. P. 26

Syringes for Valco, Cheminert and Rheodyne/IDEX Valves

Fixed Needle Syringes

5 µl.....160021R. P. 27
10 µl.....160022R. P. 27
25 µl.....160023R. P. 27
50 µl.....160024R. P. 27
100 µl.....160025R. P. 27

Removable Needle Syringes

5 µl.....160221R. P. 27
10 µl.....160222R. P. 27
25 µl.....160223R. P. 27
50 µl.....160224R. P. 27
100 µl.....160225R. P. 27

Replacement Needles

Needle Size 22 gauge
x 2".....123050R. P. 27

Special Syringes for: IDEX or Rheodyne valves

Syringe with Fixed Needle

5 µl.....160021RT. P. 28
10 µl.....160022RT. P. 28
25 µl.....160023RT. P. 28
50 µl.....160024RT. P. 28
100 µl.....160025RT. P. 28

Syringe with Removable Needle

5 µl.....160221RT. P. 28
Replacement Needle
Blunt PEEK tip Open end...123050RT

10 µl.....160222RT. P. 28
25 µl.....160223RT. P. 28
50 µl.....160224RT. P. 28
100 µl.....160225RT. P. 28

Purge and Trap Syringe

Standard Luer Lock Syringe

5 ml.....030039. P. 29
10 ml.....030040. P. 29

Luer Lock Syringe with Push Button Valve

5 ml.....050039. P. 29
10 ml.....050040. P. 29

Micro-Flo Syringes

Micro-Flo Syringe.....230051. P. 30
Needle.....100838. P. 31
Plunger Assembly.....100854. P. 31
Front packing.....100828. P. 31
Barrel w/ decal.....100827. P. 31
Rear washer.....100826. P. 31
Spring.....100830. P. 31
Syringe side packing....100844
P. 31
Plunger pin rod assembly... 100846
P. 31
Plunger pin side packing.... 100848
P. 31
Micro-Flo Adapter with Yoke
Assembly.....230250. P. 31

Pressure-Flo Syringes

.5 µl.....220005. P. 32
1 µl.....220011. P. 32
2 µl.....220012. P. 32
5 µl.....220021. P. 32
10 µl.....220022. P. 32

Bomb adapters

1/8" NPT female.....240040. P. 32
1/4" NPT female.....240041. P. 32
1/8" NPT male.....240042. P. 32
1/4" NPT male.....240043. P. 32

Part Number Index

Needles

.5 µl.....220351. P.32
1 µl, 2 µl, 5 µl, 10 µl.....220352. P.32

Plunger packing

.5 µl.....100800. P.32
1 µl, 2 µl, 5 µl, 10 µl.....220347. P.32

Plunger Assembly

.5 µl.....220315 P. 32
1 µl.....220311 P.32
2 µl.....220312 P.32
5 µl.....220321 P.32
10 µl.....220322 P.32

Front packing Assembly

All Sample Sizes.....220344. P.32

Specialty Syringes

Hollow Plunger Syringes

100 µl.....020025. P.33
250 µl.....020031. P.33

Syringes for Diluter/Dispensers and Automated Instrumentation

250 µl.....180031. P.33
500 µl.....180032. P.33
1ml.....180033. P.33

Mininert valves

Taper Valve 14/20

.....621102. P.34

Taper Valve 19/22

.....621103. P.34

Male to Male Inline valve 1/4-28

.....631205. P.34

Female to Female Inline valve

1/4-28.....631206. P.34

1/4-28 Male Termination

Valve.....631201. P.34

1/4-28 Female Termination

Valve.....631203. P.34

1/8" NPT Male Termination

Valve.....631202. P.34

1/8" NPT Female.....631204. P.34

Syringe Valve For C or D Gas Syringe

.....654050. P.34

Syringe Valve For Luer-tip

Syringe.....654051. P.34

Screw cap 13mm-425

.....614158. P.34

Screw cap 15mm-425

.....614160. P.34

Screw cap 18mm-400

.....614161. P.34

Screw cap 20mm-400

.....614170. P.34

Screw cap 24 mm-400

.....614163. P.34

Crimp Top For 13 mm ID glassware

.....614250. P.34

Septum Replacement Set

Tool Only.....644850. P.35

Septum set of 50 w ...644350. P.35

1/32" Pre-cut Stainless Tubing

2 Pack of Pre-cut Stainless Tubing

5 cm (.005" ID).....T5N5D. P.38
5 cm (.010" ID).....T5N10D. P.38
5 cm (.020" ID).....T5N20D. P.38
10 cm (.005" ID).....T10N5D. P.38
10 cm (.010" ID).....T10N10D. P.38
10 cm (.020" ID).....T10N20D. P.38
20 cm (.005" ID).....T20N5D. P.38
20 cm (.010" ID).....T20N10D. P.38
20 cm (.020" ID).....T20N20D. P.38
30 cm (.005" ID).....T30N5D. P.38
30 cm (.010" ID).....T30N10D. P.38
30 cm (.020" ID).....T30N20D. P.38
50 cm (.005" ID).....T50N5D. P.38
50 cm (.010" ID).....T50N10D. P.38
50 cm (.020" ID).....T50N20D. P.38
100 cm (.010" ID).....T100N10D. P.38
100 cm (.005" ID).....T100N5D. P.38

10 Pack of Pre-cut Stainless Tubing

5 cm (.005" ID).....T5N5-10. P.38
5 cm (.010" ID).....T5N10-10. P.38
5 cm (.020" ID).....T5N20-10. P.38
10 cm (.005" ID).....T10N5-10. P.38
10 cm (.010" ID).....T10N10-10. P.38
10 cm (.020" ID).....T10N20-10. P.38

20 cm (.005" ID).....T20N5-10. P.38
20 cm (.010" ID).....T20N10-10. P.38
20 cm (.020" ID).....T20N20-10. P.38
30 cm (.005" ID).....T30N5-10. P.38
30 cm (.010" ID).....T30N10-10. P.38
30 cm (.020" ID).....T30N20-10. P.38
50 cm (.005" ID).....T50N5-10. P.38
50 cm (.010" ID).....T50N10-10. P.38
50 cm (.020" ID).....T50N20-10. P.38
100 cm (.010" ID).....T100N10-10. P.38
100 cm (.005" ID).....T100N5-10. P.38

50 Pack of Pre-cut Stainless Tubing

5 cm (.005" ID).....T5N5-50. P.39
5 cm (.010" ID).....T5N10-50. P.39
5 cm (.020" ID).....T5N20-50. P.39
10 cm (.005" ID).....T10N5-50. P.39
10 cm (.010" ID).....T10N10-50. P.39
10 cm (.020" ID).....T10N20-50. P.39
20 cm (.005" ID).....T20N5-50. P.39
20 cm (.010" ID).....T20N10-50. P.39
20 cm (.020" ID).....T20N20-50. P.39
30 cm (.005" ID).....T30N5-50. P.39
30 cm (.010" ID).....T30N10-50. P.39
30 cm (.020" ID).....T30N20-50. P.39
50 cm (.005" ID).....T50N5-50. P.39
50 cm (.010" ID).....T50N10-50. P.39
50 cm (.020" ID).....T50N20-50. P.39
100 cm (.010" ID).....T100N10-50. P.39
100 cm (.005" ID).....T100N5-50. P.39

100 Pack of Pre-cut Stainless Tubing

5 cm (.005" ID).....T5N5-100. P.39
5 cm (.010" ID).....T5N10-100. P.39
5 cm (.020" ID).....T5N20-100. P.39
10 cm (.005" ID).....T10N5-100. P.39
10 cm (.010" ID).....T10N10-100. P.39
10 cm (.020" ID).....T10N20-100. P.39
20 cm (.005" ID).....T20N5-100. P.39
20 cm (.010" ID).....T20N10-100. P.39
20 cm (.020" ID).....T20N20-100. P.39
30 cm (.005" ID).....T30N5-100. P.39
30 cm (.010" ID).....T30N10-100. P.39
30 cm (.020" ID).....T30N20-100. P.39
50 cm (.005" ID).....T50N5-100. P.39
50 cm (.010" ID).....T50N10-100. P.39
50 cm (.020" ID).....T50N20-100. P.39
100 cm (.010" ID).....T100N10-100. P.39
100 cm (.005" ID).....T100N5-100. P.39

Part Number Index

1/16" Pre-cut Stainless Tubing

2 Pack

5 cm .005" ID.....T5C5D. P.40
 5 cm .010" ID.....T5C10D. P.40
 5 cm .020" ID.....T5C20D. P.40
 5 cm .030" ID.....T5C30D. P.40
 5 cm .040" ID.....T5C40D. P.40
 10 cm .005" ID.....T10C5D. P.40
 10 cm .010" ID.....T10C10D. P.40
 10 cm .020" ID.....T10C20D. P.40
 10 cm .030" ID.....T10C30D. P.40
 10 cm .040" ID.....T10C40D. P.40
 20 cm .005" ID.....T20C5D. P.40
 20 cm .010" ID.....T20C10D. P.40
 20 cm .020" ID.....T20C20D. P.40
 20 cm .030" ID.....T20C30D. P.40
 20 cm .040" ID.....T20C40D. P.40
 30 cm .005" ID.....T30C5D. P.40
 30 cm .010" ID.....T30C10D. P.40
 30 cm .020" ID.....T30C20D. P.40
 30 cm .030" ID.....T30C30D. P.40
 30 cm .040" ID.....T30C40D. P.40
 50 cm .005" ID.....T50C5D. P.40
 50 cm .010" ID.....T50C10D. P.40
 50 cm .020" ID.....T50C20D. P.40
 50 cm .030" ID.....T50C30D. P.40
 50 cm .040" ID.....T50C40D. P.40
 100 cm .010" ID.....T100C10D. P.40
 100 cm .020" ID.....T100C20D. P.40
 100 cm .030" ID.....T100C30D. P.40
 100 cm .040" ID.....T100C40D. P.40

10 Pack

5 cm .005" ID.....T5C5-10. P.40
 5 cm .010" ID.....T5C10-10. P.40
 5 cm .020" ID.....T5C20-10. P.40
 5 cm .030" ID.....T5C30-10. P.40
 5 cm .040" ID.....T5C40-10. P.40
 10 cm .005" ID.....T10C5-10. P.40
 10 cm .010" ID.....T10C10-10. P.40
 10 cm .020" ID.....T10C20-10. P.40
 10 cm .030" ID.....T10C30-10. P.40
 10 cm .040" ID.....T10C40-10. P.40
 20 cm .005" ID.....T20C5-10. P.40
 20 cm .010" ID.....T20C10-10. P.40
 20 cm .020" ID.....T20C20-10. P.40
 20 cm .030" ID.....T20C30-10. P.40

20 cm .040" ID.....T20C40-10. P.40
 30 cm .005" ID.....T30C5-10. P.40
 30 cm .010" ID.....T30C10-10. P.40
 30 cm .020" ID.....T30C20-10. P.40
 30 cm .030" ID.....T30C30-10. P.40
 30 cm .040" ID.....T30C40-10. P.40
 50 cm .005" ID.....T50C5-10. P.40
 50 cm .010" ID.....T50C10-10. P.40
 50 cm .020" ID.....T50C20-10. P.40
 50 cm .030" ID.....T50C30-10. P.40
 50 cm .040" ID.....T50C40-10. P.40
 100 cm .010" ID.....T100C10-10. P.40
 100 cm .020" ID.....T100C20-10. P.40
 100 cm .030" ID.....T100C30-10. P.40
 100 cm .040" ID.....T100C40-10. P.40

50 Pack

5cm.005" ID.....T5C5-50. P.41
 5 cm .010" ID.....T5C10-50. P.41
 5 cm .020" ID.....T5C20-50. P.41
 5 cm .030" ID.....T5C30-50. P.41
 5 cm .040" ID.....T5C40-50. P.41
 10 cm .005" ID.....T10C5-50. P.41
 10 cm .010" ID.....T10C10-50. P.41
 10 cm .020" ID.....T10C20-50. P.41
 10 cm .030" ID.....T10C30-50. P.41
 10 cm .040" ID.....T10C40-50. P.41
 20 cm .005" ID.....T20C5-50. P.41
 20 cm .010" ID.....T20C10-50. P.41
 20 cm .020" ID.....T20C20-50. P.41
 20 cm .030" ID.....T20C30-50. P.41
 20 cm .040" ID.....T20C40-50. P.41
 30 cm .005" ID.....T30C5-50. P.41
 30 cm .010" ID.....T30C10-50. P.41
 30 cm .020" ID.....T30C20-50. P.41
 30 cm .030" ID.....T30C30-50. P.41
 30 cm .040" ID.....T30C40-50. P.41
 50 cm .005" ID.....T50C5-50. P.41
 50 cm .010" ID.....T50C10-50. P.41
 50 cm .020" ID.....T50C20-50. P.41
 50 cm .030" ID.....T50C30-50. P.41
 50 cm .040" ID.....T50C40-50. P.41
 100 cm .005" ID.....T100C5-50. P.41
 100 cm .010" ID.....T100C10-50. P.41
 100 cm .020" ID.....T100C20-50. P.41
 100 cm .030" ID.....T100C30-50. P.41
 100 cm .040" ID.....T100C40-50. P.41

100 Pack

5 cm .005" ID.....T5C5-100. P.41
 5 cm .010" ID.....T5C10-100. P.41
 5 cm .020" ID.....T5C20-100. P.41
 5 cm .030" ID.....T5C30-100. P.41
 5 cm .040" ID.....T5C40-100. P.41
 10 cm .005" ID.....T10C5-100. P.41
 10 cm .010" ID.....T10C10-100. P.41
 10 cm .020" ID.....T10C20-100. P.41
 10 cm .030" ID.....T10C30-100. P.41
 10 cm .040" ID.....T10C40-100. P.41
 20 cm .005" ID.....T20C5-100. P.41
 20 cm .010" ID.....T20C10-100. P.41
 20 cm .020" ID.....T20C20-100. P.41
 20 cm .030" ID.....T20C30-100. P.41
 20 cm .040" ID.....T20C40-100. P.41
 30 cm .005" ID.....T30C5-100. P.41
 30 cm .010" ID.....T30C10-100. P.41
 30 cm .020" ID.....T30C20-100. P.41
 30 cm .030" ID.....T30C30-100. P.41
 30 cm .040" ID.....T30C40-100. P.41
 50 cm .005" ID.....T50C5-100. P.41
 50 cm .010" ID.....T50C10-100. P.41
 50 cm .020" ID.....T50C20-100. P.41
 50 cm .030" ID.....T50C30-100. P.41
 50 cm .040" ID.....T50C40-100. P.41
 100 cm .010" ID.....T100C10-100. P.41
 100 cm .020" ID.....T100C20-100. P.41
 100 cm .030" ID.....T100C30-100. P.41
 100 cm .040" ID.....T100C40-100. P.41

Color Coded PEEK tubing

52 bar 750 psi

.055" Striped Black-5 ft
JR-T-60032-F5. P.42
 .055" Striped Black-10 ft
JR-T-60032-F10. P.42
 .055" Striped Black-25 ft
JR-T-60032-F25. P.42

165 bar 2400 psi

.040" Striped Gray-5 ft
JR-T-60031-F5. P.42
 .040" Striped Gray-10 ft
JR-T-60031-F10. P.42
 .040" Striped Gray-25 ft
JR-T-60031-F25. P.42

Part Number Index

240 bar 3500 psi

.030" Striped Green-5 ft
.....JR-T-6003-F5. P.42

.030" Striped Green-10 ft
.....JR-T-6003-F10. P.42

.030" Striped Green-25 ft
.....JR-T-6003-F25. P.42

.030" Solid Green-5 ft
.....JR-T-6011-F5. P.42

.030" Solid Green-10 ft
.....JR-T-6011-F10. P.42

.030" Solid Green-25 ft
.....JR-T-6011-F25. P.42

350 bar 4500 psi

.020" Striped Orange-5 ft
.....JR-T-6002-F5. P.42

.020" Striped Orange-10 ft
.....JR-T-6002-F10. P.42

.020" Striped Orange-25 ft
.....JR-T-6002-F25. P.42

.020" Solid Orange-5 ft
.....JR-T-6010-F5. P.42

.020" Solid Orange-10 ft
.....JR-T-6010-F10. P.42

.020" Solid Orange-25 ft
.....JR-T-6010-F25. P.42

386 bar 5600 psi

.010" Striped Blue-5 ft
.....JR-T-6001-F5. P.42

.010" Striped Blue-10 ft
.....JR-T-6001-F10. P.42

.010" Striped Blue-25 ft
.....JR-T-6001-F25. P.42

.010" Solid Blue-5 ft
.....JR-T-6009-F5. P.42

.010" Solid Blue-10 ft
.....JR-T-6009-F10. P.42

.010" Solid Blue-25 ft
.....JR-T-6009-F25. P.42

400 bar 5800 psi

.007" Striped Yellow-5 ft
.....JR-T-6000-F5. P.42

.007" Striped Yellow-10 ft
.....JR-T-6000-F10. P.42

.007" Striped Yellow-25 ft
.....JR-T-6000-F25. P.42

Color Coded PEEK Tubing

Red Solid & Striped Tubing 5 feet

.005" Striped Red
.....JR-T-5999-F5. P.43

.005" Solid Red
.....JR-T-6007-F5. P.43

10 feet

.005" Striped Red
.....JR-T-5999-F10. P.43

.005" Solid Red
.....JR-T-6007-F10. P.43

25 feet

.005" Striped Red
.....JR-T-5999-F25. P.43

.005" Solid Red
.....JR-T-6007-F25. P.43

Custom Cut Metal Tubing

316 Stainless Steel

1/32" Tubing

.005" ID.....TSS.505. P.44

.007" ID.....TSS.507. P.44

.010" ID.....TSS.510. P.44

.020" ID.....TSS.520. P.44

1/16" Tubing

.005" ID.....TSS105. P.44

.010" ID.....TSS110. P.44

.020" ID.....TSS120. P.44

.026" ID.....TSS126. P.44

.030" ID.....TSS130. P.44

.040" ID.....TSS140. P.44

.050" ID.....TSS150. P.44

1/8" Tubing

.030" ID.....TSS230. P.44

.040" ID.....TSS240. P.44

.060" ID.....TSS260. P.44

.070" ID.....TSS267. P.44

.085" ID.....TSS285. P.44

Nickel 200

1/32" Tubing

.007" ID.....TNI.507. P.44

.010" ID.....TNI510. P.44

.020" ID.....TNI520. P.44

1/16" Tubing

.005" ID.....TNI105. P.44

.010" ID.....TNI110. P.44

.020" ID.....TNI120. P.44

.030" ID.....TNI130. P.44

.040" ID.....TNI140. P.44

1/8" Tubing

.085" ID...TNI285. P.44

Hastelloy C

1/16" OD

.030" ID.....THC130. P.44

1/8" OD

.070" ID.....THC270. P.44

.085" ID.....THC285. P.44

Titanium

1/16" OD

.012" ID.....TTI112. P.44

.020" ID.....TTI120. P.44

.031" ID.....TTI131. P.44

Custom Cut Polymeric Tubing

PTFE Tubing

1/16" OD Tubing

.006" ID.....TTF106. P.45

.010" ID.....TTF110. P.45

.015" ID.....TTF115. P.45

.020" ID.....TTF120. P.45

.030" ID.....TTF130. P.45

.040" ID.....TTF140. P.45

1/8" OD Tubing

.030" ID.....TTF230. P.45

Part Number Index

.060" ID.....TTF260. P.45 .085" ID.....TTF285. P.45
PEEK Tubing 1/16" OD Tubing .006" ID.....TPK106. P.45 .010" ID.....TPK110. P.45 .015" ID.....TPK115. P.45 .020" ID.....TPK120. P.45 .030" ID.....TPK130. P.45
1/8" OD Tubing .060" ID.....TPK260. P.45
FEP Tubing 1/16" OD Tubing .010" ID.....TFEP110. P.45 .020" ID.....TFEP120. P.45 .030" ID.....TFEP130. P.45
1/8" OD Tubing .060" ID.....TFEP260. P.45
ETFE Tubing 1/16" OD Tubing .010" ID TTZ110. P.45 .020" ID TTZ120. P.45 .030" ID TTZ130. P.45
1/8" OD Tubing .060" ID.....TTZ260. P.45
Tubing Accessories
Clean-cut tubing cutter For polymeric tubing..... JR-797. P.46
Guillotine tubing cutter For polymeric tubing..... JR-794. P.46 Replacement blade.....JR-795. P.46
Tubing elbows For routing 1/16" PEEK tubing 90° .....JR-357190. P.46 180° .....JR-357180. P.46 Tubing clip With stainless steel spring JR-9001. P.46

DIY Tubing Flange Sets
Easy-Flange Kit..... JR-201540. P.47 Easy-Flange Combi Kit.....JR-201539. P.47
Flange Tool 110 VAC.....CFT-110. P.47 230 VAC.....CFT-220. P.47
PEEK Sample Loops
PEEK Loops for IDEX/ Rheodyne Valves 435 bar 6300 psi 1 µl.....JR-SLR-2190. P.48
420 bar 6100 psi 2 µl.....JR-SLR-2191. P.48 3 µl.....JR-SLR-2192. P.48 4 µl.....JR-SLR-2193. P.48
400 bar 5600 psi 5 µl.....JR-SLR-2194. P.48 10 µl.....JR-SLR-2196. P.48
386 bar 5600 psi 20 µl.....JR-SLR-2195. P.48 30 µl.....JR-SLR-2200. P.48 40 µl.....JR-SLR-2201 386 bar 5600 psi. P.48
350 bar 4500 psi 50 µl.....JR-SLR-2202. P.48 100 µl.....JR-SLR-2204. P.48 200 µl.....JR-SLR-2206. P.48 250 µl.....JR-SLR-2207. P.48 500 µl.....JR-SLR-2210. P.48 1 ml.....JR-SLR-2222. P.48
PEEK Loops for Cheminert Valves 400 bar 5800 psi 5 µl.....JR-SLC-85-5. P.48 10 µl.....JR-SLC-85-10. P.48 20 µl.....JR-SLC-85-20. P.48 50 µl.....JR-SLC-85-50. P.48 100 µl.....JR-SLC-85-100. P.48

240 bar 3500 psi 250 µl.....JR-SLC-85-250. P.48 500 µl.....JR-SLC-85-500. P.48 1 ml.....JR-SLC-85-1000. P.48
PEEK Loops for Valco UW Type valves 240 bar 3500 psi 250 µl.....JR-SLV-75-250. P.48 500 µl.....JR-SLV-75-500. P.48 1 ml.....JR-SLV-75-1000. P.48
400 bar 5800 psi 5 µl.....JR-SLV-75-5. P.48 10 µl.....JR-SLV-75-10. P.48 20 µl.....JR-SLV-75-20. P.48 50 µl.....JR-SLV-75-50. P.48 100 µl.....JR-SLV-75-100. P.48
Stainless Steel Sample Loops
Stainless Steel Loops for Valco UW Type valves 5 µl.....JR-SLV-76-5. P.49 10 µl.....JR-SLV-76-10. P.49 20 µl.....JR-SLV-76-20. P.49 50 µl.....JR-SLV-76-50. P.49 100 µl.....JR-SLV-76-100. P.49 250 µl.....JR-SLV-76-250. P.49 500 µl.....JR-SLV-76-500. P.49 1 ml.....JR-SLV-76-1000. P.49
Stainless Steel Loops for Cheminert valves 20 µl.....JR-SLC-86-20. P.49 50 µl.....JR-SLC-86-50. P.49 100 µl.....JR-SLC-86-100. P.49 5 µl.....JR-SLC-86-5. P.49 10 µl.....JR-SLC-86-10. P.49 200 µl.....JR-SLC-86-200. P.49 250 µl.....JR-SLC-86-250. P.49 500 µl.....JR-SLC-86-500. P.49 1 ml.....JR-SLC-86-1000. P.49
Stainless Steel Loops For IDEX/Rheodyne Valves 10 µl.....JR-SLR-112. P.49 20 µl.....JR-SLR-113. P.49 50 µl.....JR-SLR-114. P.49 100 µl.....JR-SLR-115. P.49

Part Number Index

1 ml.....JR-SLR-118. P.49	CTFE 1/16"OD .75 Bore.....CTMKF. P.51 CTFE 1/8"OD 1.5 Bore.....CTLKF. P.51	PEEK Male Luer to 1/4-28.....CMLAPK. P.53 CTFE Female Luer to 1/4-28.....CFLAKF. P.53 CTFE Male Luer to 1/4-28.....CMLAKF. P.53 PFA Female Luer to 1/4-28.....CFLAPFA. P.53 PFA Male Luer to 1/4-28.....CMLAPFA. P.53
For IDEX/Rheodyne # 7725 Valves 10 µl.....JR-SLR-112-77. P.49 20 µl.....JR-SLR-113-77. P.49 50 µl.....JR-SLR-114-77. P.49 100 µl.....JR-SLR-115-77. P.49 5 µl.....JR-SLR-111-77. P.49 200 µl.....JR-SLR-116-77. P.49 500 µl.....JR-SLR-117-77. P.49 1 ml.....JR-SLR-118-77. P.49	Cheminert Low Pressure Unions For 1/16" OD Tubing PEEK 0.50 mm.....CUPK. P.52 CTFE 0.50 mm.....CULKF. P.52 PEEK 0.75mm.....CUMPK. P.52 CTFE 0.75mm.....CUMKF. P.52	PEEK Plugs P1/16" Hex (.62" Lgth of Nut) .....MZP1PK. P.53 1/16" Long Hex (.87" Lgth of Nut) .....LZP1PK. P.53 1/16" Fingertight (.88" mm Lgth of Nut).....ZP1FPK. P.53
Low Pressure Fittings	For 1/8" OD Tubing PEEK 1.50 mm.....CULPK. P.52 CTFE 1.50 mm.....CUMKF. P.52 PEEK 0.75mm.....CULPK. P.52 CTFE 0.75mm.....CULKF. P.52	Standard Flanged Tube End Fittings
5 Pack 1/16" OD Black.....CFL-1BK. P.51 Blue.....CFL-1BE. P.51 Brown.....CFL-1BR. P.51 Dk Gray.....CFL-1DG. P.51 Green.....CFL-1G. P.51 Lavender.....CFL-1L. P.51 Natural.....CFL-1N. P.51 Orange.....CFL-1E. P.51 Purple.....CFL-1P. P.51 Red.....CFL-1R. P.51 White.....CFL-1W. P.51 Yellow.....CFL-1Y. P.51	Cheminert Low Pressure Crosses PEEK 1/16"OD .75 Bore.....CXMPK. P.52 PEEK 1/8"OD 1.5 Bore.....CXLPK. P.52 CTFE 1/16"OD .75 Bore.....CXMKF. P.52 CTFE 1/8"OD 1.5 Bore.....CXLKF. P.52	Flanged fittings 1/16" OD.....CF-1A. P.54 1/8" OD.....CF-2A. P.54
1/8" OD Black.....CFL-2BK. P.51 Blue.....CFL-2BE. P.51 Brown.....CFL-2BR. P.51 Dk Gray.....CFL-2DG. P.51 Green.....CFL-2G. P.51 Lavender.....CFL-2L. P.51 Natural.....CFL-2N. P.51 Orange.....CFL-2E. P.51 Purple.....CFL-2P. P.51 Red.....CFL-2R. P.51 White.....CFL-2W. P.51 Yellow.....CFL-2Y. P.51	Bulkhead Unions 316 Stainless 1/16"OD .75mm Bore.....CBUMS6. P.53 316 Stainless 1/8" OD 1.5mm Bore.....CBULS6. P.53 Page 53, PEEK 1/16"OD .75 mm Bore.....CBUMPK. P.53 Page 53, PEEK 1/8" OD 1.5 mm Bore.....CBULPK. P.53 Page 53, CTFE 1/16" OD .75 mm Bore.....CBUMKF. P.53 Page 53, CTFE 1/8" OD 1.5 mm Bore.....CBULKF. P.53	Additional washers 1/16" OD.....CF-W1. P.54 1/8" OD.....CF-W2. P.54
Cheminert Low Pressure Tees PEEK 1/16"OD .75 Bore.....CTMPK. P.51 PEEK 1/8"OD 1.5 Bore.....CTLPK. P.51	Plugs PEEK Plug.....CPPK. P.53 CTFE Plug.....CPKF. P.53	High Pressure Fittings
	Luer adapters PEEK Female Luer to 1/4-28.....CFLAPK. P.53	Internal Nuts 1/16" hex (.45" length) .....ZNI1PK-10. P.55 1/16" hex (.62" length) .....MZN1PK-10. P.55 1/16" fingertight (.88" L) .....ZNI1FPK-10. P.55 1/16" hex (.87" L) .....LZN1PK-10. P.55
		Grooved PEEK Ferrules 1/16".....ZGF1PK-10 PEEK plugs. P.55 1/16" Hex Plug(.62" L) .....C-MZP1PK-10. P.55

Part Number Index

1/16" Long Hex Plug (.87" L)
C-LZP1PK-10. P.55
1/16" Fingertight Plug (.88" L)
C-ZP1FPKL-10. P.55

Ferrules -high pressure PEEK
1/16" Ferrules
 ZF1PK-10. P.55

Micro Valves for GC and LC

2 Port Micro Valves
180 Flow Path.....660200. P.56
90 Flow Path.....660300. P.56

3 Port Micro Valves
"T" Flow Path.....660100. P.56
90° Flow Path.....660310. P.56

4 Port Micro Valves
"T" Flow Path.....660110. P.56
90° Flow Path.....660320. P.56
180° Flow Path.....660210. P.56

Micro Valve Actuator

Micro Valve Actuator.....MVA .P.57

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Agilent Archon Instruments
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Probe without fittings
505828. P.58
Probe with fittings
505739. P.58

Water probe (old style)
Probe with fittings
505491. P.58
Probe without fittings
505831. P.58

Soil probe assembly
Probe with fittings
505490. P.58

Probe without fittings
505830. P.58

Needle purge probe assembly

HEX BLOCK
Probe with fittings.....505741. P.58
Probe without fittings...505829. P.58

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Probe without fittings...505840. Pg. 58

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VICI Precision Sampling
P.O. Box 15886
Baton Rouge, LA 70895
USA

Phone + (225) 927-1128
Toll Free + (800) 828-1653

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