



2009 #60

Analytical Syringes, Valves, Probes, and Custom Bent Tubing from VICI Precision Sampling

Micro Valves for GC and LC

- 200 psi, .060" bore
- Compact 1" design
- Convenient panel mount
- Variety of configurations

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 overtightening. Internal parts are PEEK and PTFE.



(Fittings not included.
For example fittings, see page 68.)

Micro valves for GC and LC

1/4-28

| | Prod No | | | | |
|----------------|---------|--------|--------|--------|------|
| "T" flow path | 3 ports | 660100 | 3 PORT | 4 PORT | "T" |
| | 4 ports | 660110 | | | |
| | | | | | |
| 180° flow path | 2 ports | 660200 | 2 PORT | 4 PORT | 180° |
| | 4 ports | 660210 | | | |
| | | | | | |
| 90° flow path | 2 ports | 660300 | 2 PORT | 3 PORT | 90° |
| | 3 ports | 660310 | | | |
| | 4 ports | 660320 | | 4 PORT | |
| | | | | | |

SPECS

200 psi
.060" bore
1/4-28 fitting detail
All polymer-based materials

MORE INFORMATION

1/4-28 fittings . . . pp 68-78

TO ORDER

Toll-free 800-828-1653
Tel225-927-1128
Toll-free
fax866-429-7741
Fax225-923-1331

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viciprecisionsampling.com
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CHROMalytic TECHNOlogy Pty Ltd AUSTRALIAN Distributors e-mail: sales@chromtech.net.au Tel: 03 9762 2034



Pressure-Lok® Gas Syringes

VICI Precision Sampling's patented Pressure-Lok® syringes feature a Teflon® (PTFE) plunger tip, stress-formed by a special process to assure a leak-tight seal. The self-lubricating plunger tip stays smooth for the life of the syringe, with none of the seizing or residue buildup associated with conventional all-metal plungers.

The needle is sealed by a PTFE sleeve or packing, which effectively isolates the sample from the needle cement, preventing any possible dissolution of the adhesive or contamination of the sample. All Pressure-Lok syringes feature ultra smooth bores, easily replaceable parts, low dead volume, crisp clean graduations, and precision calibration.

Series A-2

for GC

The A-2 features a push-button valve for 250 psi sample storage in syringes as small as 25 µl. Small liquid samples with low-boiling components are not lost through evaporation, as often occurs with ordinary syringes.

The positive rear stop (in 250 µl and larger sizes) prevents plunger blowout at elevated pressures. The Series A-2 syringe has all the standard Pressure-Lok features such as a PTFE plunger tip, PTFE-sealed needle, and ultrasmooth bore. Replacement components are available for easy repairs.

SPECS

Removable needles
Bevel, open end
Needle size:
.028" x .005" x 2"
(25, 50, and
100 µl)
.029" x .012" x 2"
(all other
sample sizes)
250 psi max,
gases and liquids

| | Standard | Luer |
|-------------|-----------|-----------|
| Sample size | Prod No | Prod No |
| 25 µl | PS-050023 | PS-050043 |
| 50 µl | PS-050024 | PS-050044 |
| 100 µl | PS-050025 | PS-050045 |
| 250 µl | PS-050031 | PS-050051 |
| 500 µl | PS-050032 | PS-050052 |
| 1 ml | PS-050033 | PS-050053 |
| 2 ml | PS-050034 | PS-050054 |
| 5 ml | PS-050035 | PS-050055 |
| 10 ml | PS-050036 | PS-050056 |

SAFETY NOTE

To prevent possible injury, proper safety precautions should always be observed when pressurizing glass cylinders such as syringes.

Not for medical use.

| Replacement needles (Pkg/3) | Bevel, open end | Side port, taper |
|--------------------------------|--------------------|---------------------|
| Size | Prod No | Prod No |
| Pressure-Lok | | |
| .028" x .005" x 2" | PS-943050 | — |
| .029" x .012" x 2" | PS-943051 | PS-943052 |
| Luer | | |
| .028" x .006" x 2" | PS-943060 | — |
| .028" x .016" x 2" | PS-943061 | PS-943062 |

NEEDLE TIPS



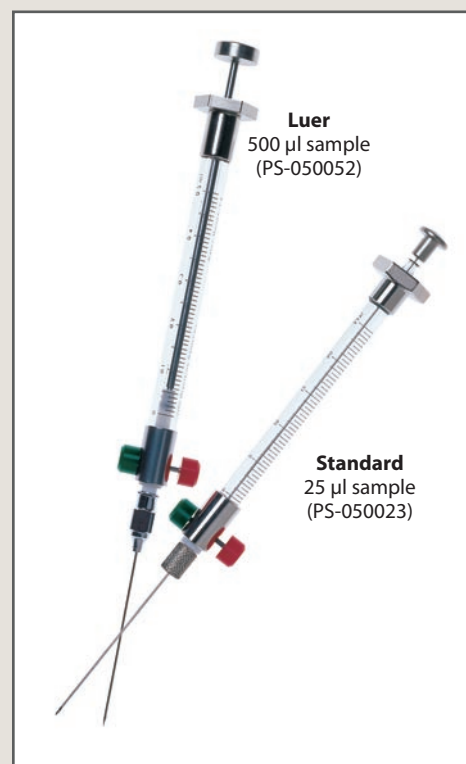
Blunt, open end



Bevel, open end



Side port, taper



Gas and Liquid Syringes

Series C-160

for GC

The C-160 offers day-in, day-out dependability at an economical price. A plunger tip of stress-formed virgin PTFE is self-lubricating and durable, and the PTFE needle seat at the rear of the needle prevents possible dissolution of the needle cement or contamination of the sample.

Choose between a fixed or removable needle version. Replacement needles are open end bevel type, sized .019" x .005" x 2.25", and come complete with an integral PTFE seal for a low dead volume connection and a leak-tight fit.

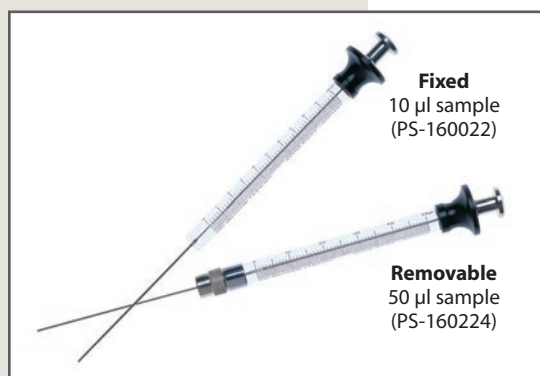
SPECS

Fixed and removable needles
Bevel, open end
Fixed needle size: .019" x .005" x 2"
Removable needle size: .019" x .005" x 2.25"
250 psi max, gases and liquids

| | Fixed needle | Removable needle |
|-------------|--------------|------------------|
| Sample size | Prod No | Prod No |
| 5 µl | PS-160021 | PS-160221 |
| 10 µl | PS-160022 | PS-160222 |
| 25 µl | PS-160023 | PS-160223 |
| 50 µl | PS-160024 | PS-160224 |
| 100 µl | PS-160025 | PS-160225 |

Replacement needles (Pkg/3)

| Size | Bevel, open end |
|-----------------------|-----------------|
| .019" x .005" x 2.25" | PS-123050 |



MORE INFORMATION
Fill ports..... page 40
Luer adapters 41

Syringes for Valco, Cheminert, and Rheodyne HPLC injectors

Syringes used to fill a loop on a sample injection valve have blunt, smooth ends. For a sample to be delivered with any repeatability, the end of the needle must contact the bottom of the valve's fitting detail uniformly and seal on the outside of the tip. All Precision Sampling syringes for valve injections have smooth, burr-free ends that fit the valve fitting details perfectly. The standard HPLC syringe is our basic C-160 with a 2" long 22 gauge blunt tip needle.

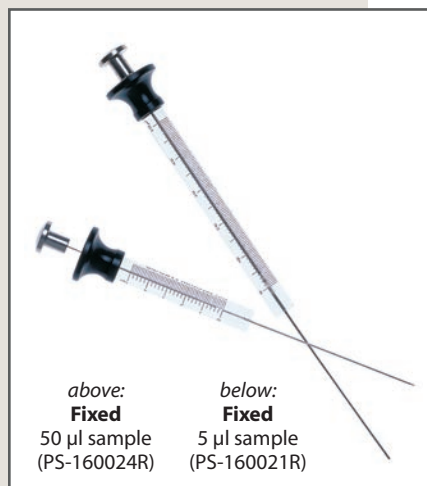
SPECS

Removable needles
Blunt tip, open end
Needle size: 22 gauge x 2"
250 psi max

| | Fixed needle | Removable needle |
|-------------|--------------|------------------|
| Sample size | Prod No | Prod No |
| 5 µl | PS-160021R | PS-160221R |
| 10 µl | PS-160022R | PS-160222R |
| 25 µl | PS-160023R | PS-160223R |
| 50 µl | PS-160024R | PS-160224R |
| 100 µl | PS-160025R | PS-160225R |

Replacement needles (Pkg/3)

| Prod No |
|------------|
| PS-123050R |



NEEDLE TIPS



Blunt, open end



Bevel, open end



Side port, taper

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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, or volatile chemicals. 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.



Valves for vials

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.

| Pkg/12: | Cap / thread size | Prod No |
|---------|-------------------|-----------|
| | 13 mm-425 | PS-614158 |
| | 15 mm-425 | PS-614160 |
| | 18 mm-400 | PS-614161 |
| | 20 mm-400 | PS-614170 |
| | 24 mm-400 | PS-614163 |
| | Crimp top | PS-614250 |

SPECS

TEMPERATURE

Mininert valves can be used at temperatures up to 105°F. However, use at high temperatures, the valve may leak slightly when cooled to room temperature.

MATERIALS

PTFE is highly inert and may be used with most common materials. It is particularly useful for working with most acids and organic solvents. However, problems may be encountered when used with organometallics and some strong bases. We recommend actual exposure tests before use with any material.

PRESSURE

The sealing ability of Mininert valves is more than adequate for containing most volatile liquids and gases at low pressures. Mininert valves have been used as high as 120 psi without leakage, but this is **not** a recommendation for pressurizing glass containers to these levels. Such pressurization of glass containers can be extremely dangerous.

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Valves with threaded fittings

These valves provide excellent control as they can be used as a termination valve at either end of a line, or as a 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.

| In-line valves | Prod No |
|-------------------------|-----------|
| 1/4-28 male to male | PS-631205 |
| 1/4-28 female to female | PS-631206 |

Termination valves

| | |
|-----------------|-----------|
| 1/4-28 male | PS-631201 |
| 1/4-28 female | PS-631203 |
| 1/8" NPT male | PS-631202 |
| 1/8" NPT female | PS-631204 |

Replacement septa and septum installation tool

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

| | |
|-------------------|-----------|
| Septa, pkg/50 | PS-644350 |
| Installation tool | PS-644850 |



Mininert syringe valves

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. Also available to fit luer-tip syringes from any manufacturer. All accept traditional luer needles.

| | |
|----------------------|-----------|
| For C or D syringe | PS-654050 |
| For Luer-tip syringe | PS-654051 |

