

INNOVATIVE PRODUCTS

Passive Air Sampling Kits

**Equipment Needed for
Collecting Passive Air Samples**



RESULTECH 20

Turning Visions into Reality™

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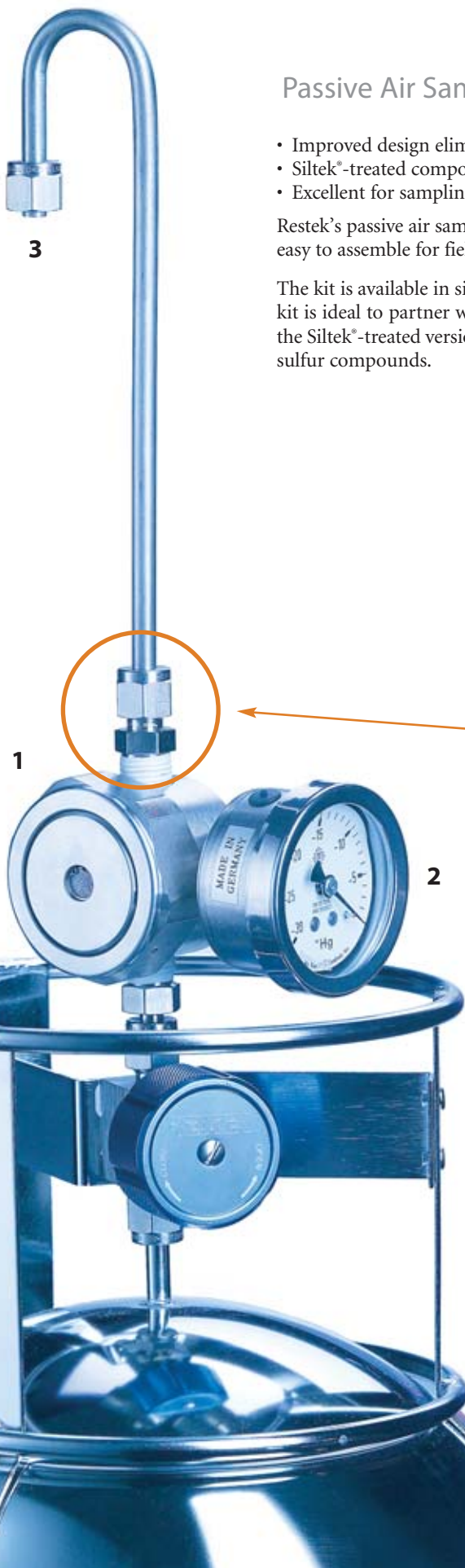
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Passive Air Sampling Kits

- Improved design eliminates potential leak sites at the filter.
- Siltek®-treated components ensure a very inert surface.
- Excellent for sampling times from 1 hour to 125 hours, or for grab sampling.

Restek's passive air sampling kit incorporates all hardware necessary to collect air samples. These kits are easy to assemble for field sampling.*

The kit is available in six sampling flow ranges, and in stainless steel, or Siltek® treated. The stainless steel kit is ideal to partner with a Restek TO-Can™ air sampling canister for TO-14A or TO-15 methods. Use the Siltek®-treated version with a Restek SilcoCan™ air sampling canister when collecting low-level volatile sulfur compounds.



1. Veriflo™ SC423XL flow controller

This flow controller is the heart of the sampling train. It is a high-quality device designed to maintain a constant mass flow as the pressure changes from 30" Hg to 5" Hg. All wetted parts of the flow controller can be Siltek®-treated.

2. Stainless steel vacuum gauge

Fitted to the flow controller, the gauge monitors canister pressure change during sampling.

3. 1/4-inch Siltek®-treated sample inlet

The 12-inch (0.3m) x 1/4-inch tubing includes a stainless steel nut on the inlet end to block rain from entering the sampling train.

4. 2-micron frit filter and washer

Located prior to the critical orifice to prevent airborne particles from clogging the critical orifice. Replaceable. Available in stainless steel, or Siltek®-treated for optimum inertness.

5. Interchangeable critical orifice

An interchangeable sapphire critical orifice allows you to control the flow with very high precision. To select the correct critical orifice for your sample, see the table below. Available in stainless steel, or Siltek®-treated for optimum inertness.

*Air sampling canisters sold separately. See back page.

	Canister Volume/Sampling Time				Flow (sccm)	Orifice size	Siltek®-Treated Sampling Kits	Stainless Steel Sampling Kits
	400cc	1 L	3 L	6 L				
8 hr	24 hr	48 hr	125 hr	—	0.5–2	0.0008"	24217	24216
2 hr	4 hr	12 hr	24 hr	60 hr	2–4	0.0012"	24160	24165
1 hr	2 hr	6 hr	12 hr	30 hr	4–8	0.0016"	24161	24166
—	1 hr	4 hr	8 hr	20 hr	8–20	0.0020"	24162	24167
—	—	2 hr	3 hr	8 hr	20–40	0.0030"	24163	24168
—	—	—	1 hr	3 hr	40–80	0.0060"	24164	24169

please note

All fitting connections are 1/4" tube, except where noted.

Replacement Parts

Critical Orifices

Use these orifices to change the flow range for alternative sampling times. These orifices are interchangeable with Veriflo™ 423XL orifices.

Flow (sccm)	Orifice size	Siltek®-Treated		Stainless Steel	
		cat.#		cat.#	
0.5-2	0.0008"	24219		24218	
2-4	0.0012"	24233		24245	
4-8	0.0016"	24234		24246	
8-20	0.0020"	24235		24247	
20-40	0.0030"	24236		24248	
40-80	0.0060"	24237		24249	

Frit Filters

For use in critical orifice fitting. Includes washers.

Description	qty.	cat.#
Siltek®-Treated Replacement Frit Filters	3-pk.	24171
Stainless Steel Replacement Frit Filters	3-pk.	24170

7µm In-Line Filters

This 316 stainless steel filter is designed to collect particles larger than 7 microns.

Description	qty.	cat.#
Siltek®-Treated 7µm In-Line Filter	ea.	24265
Stainless Steel 7µm In-Line Filter	ea.	24266

Veriflo™ Flow Controllers

Veriflo™ 423XL flow controllers are offered in a Siltek®-treated and a stainless steel version, with or without a critical orifice. (Vacuum gauge sold separately.)

Flow (sccm)	Orifice size	Siltek™-Treated		Stainless Steel	
		cat.#		cat.#	
0.5-2	0.0008"	24232		24229	
2-4	0.0012"	24255		24260	
4-8	0.0016"	24256		24261	
8-20	0.0020"	24257		24262	
20-40	0.0030"	24258		24263	
40-80	0.0060"	24259		24264	
—	no orifice	24238		24239	

2-Inch Vacuum Gauge

A high-quality 2-inch gauge that incorporates 316 stainless steel wetted surfaces.

Description	qty.	cat.#
2-Inch Vacuum Gauge; 1/8" NPT	ea.	24269
2-Inch Vacuum Gauge; 1/4" NPT	ea.	24270

Buy only the parts you need!



Siltek® critical orifice



Siltek® in-line filter



Veriflo SC423XL flow controller



High-quality vacuum gauge



free literature

A Guide to Passive Air Sampling

Request your free copy of this helpful guide!
Call 800-356-1688 or 814-353-1300, ext. 5

Visit us online at www.restek.com, or contact your Restek representative.

lit. cat.# 59977B

SilcoCan™ and TO-Can™ air monitoring canisters feature:

- High quality, metal-to-metal seal, 2/3-turn valve with metal diaphragms.
- Sizes to support a wide range of sampling needs.
- Optional 3-port valve and optional 30" Hg/60psig vacuum/pressure gauge (other ranges available).

SilcoCan™ canisters also feature:

- Unsurpassed inertness, even for sulfur-containing or brominated compounds.
- For critical applications, order a Siltek® treated valve - add suffix "-650" to the catalog number of the canister.



did you know?

Restek canisters are shipped in boxes with handles for ease of carrying and transporting, eliminating costly carrying cases.

SilcoCan™ Canisters

Siltek® treated - ideal for low-level reactive sulfur compounds (1-20ppb)

Description	qty.	cat.#
1L Volume		
SilcoCan™, 1/4" Valve	ea.	24180
SilcoCan™, 1/4" Siltek® Valve	ea.	24180-650
SilcoCan™ w/ 1/4" Gauge, Valve	ea.	24140
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24140-650
3L Volume		
SilcoCan™, 1/4" Valve	ea.	24181
SilcoCan™, 1/4" Siltek® Valve	ea.	24181-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24141
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24141-650
6L Volume		
SilcoCan™, 1/4" Valve	ea.	24182
SilcoCan™, 1/4" Siltek® Valve	ea.	24182-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24142
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24142-650
15L Volume		
SilcoCan™, 1/4" Valve	ea.	24183
SilcoCan™, 1/4" Siltek® Valve	ea.	24183-650
SilcoCan™ w/ Gauge, 1/4" Valve	ea.	24143
SilcoCan™ w/ Gauge, 1/4" Siltek® Valve	ea.	24143-650
Replacement 1/4" Valves for Air Monitoring Canisters		
1/4" Replacement Valve (2-port)	ea.	24145
1/4" Replacement Valve (3-port)	ea.	24147
1/4" Siltek® Replacement Valve (2-port)	ea.	24144
1/4" Siltek® Replacement Valve (3-port)	ea.	24146

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Siltek, Restek logo

Other Trademarks:
Veriflo, SilcoCan, TO-Can

TO-Can™ Canisters

Optimized for US EPA Methods TO-14 and TO-15

Description	qty.	cat.#
1L Volume		
TO-Can™ Canister, 1/4" Valve	ea.	24172
TO-Can™ Canister with Gauge, 1/4" Valve	ea.	24176
3L Volume		
TO-Can™ Canister, 1/4" Valve	ea.	24173
TO-Can™ Canister with Gauge, 1/4" Valve	ea.	24177
6L Volume		
TO-Can™ Canister, 1/4" Valve	ea.	24174
TO-Can™ Canister with Gauge, 1/4" Valve	ea.	24178
15L Volume		
TO-Can™ Canister, 1/4" Valve	ea.	24175
TO-Can™ Canister with Gauge, 1/4" Valve	ea.	24179

ordering note

All Restek canisters are originally equipped with these high-quality Parker Hannifin diaphragm valves. Each valve is helium leak-tested to 4×10^{-6} cc/sec. The all-stainless steel construction eliminates contamination and withstands temperatures from -100°C to 250°C. Compression outlet fitting, indicator plate to display open or closed position, 1/4" inlet and outlet.



also available

We also offer sampling bags, thermal desorption tubes, and a range of gas reference standards to meet your environmental gas sampling requirements. See our catalog, or website.



Lit. Cat.# 59290B-INT

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