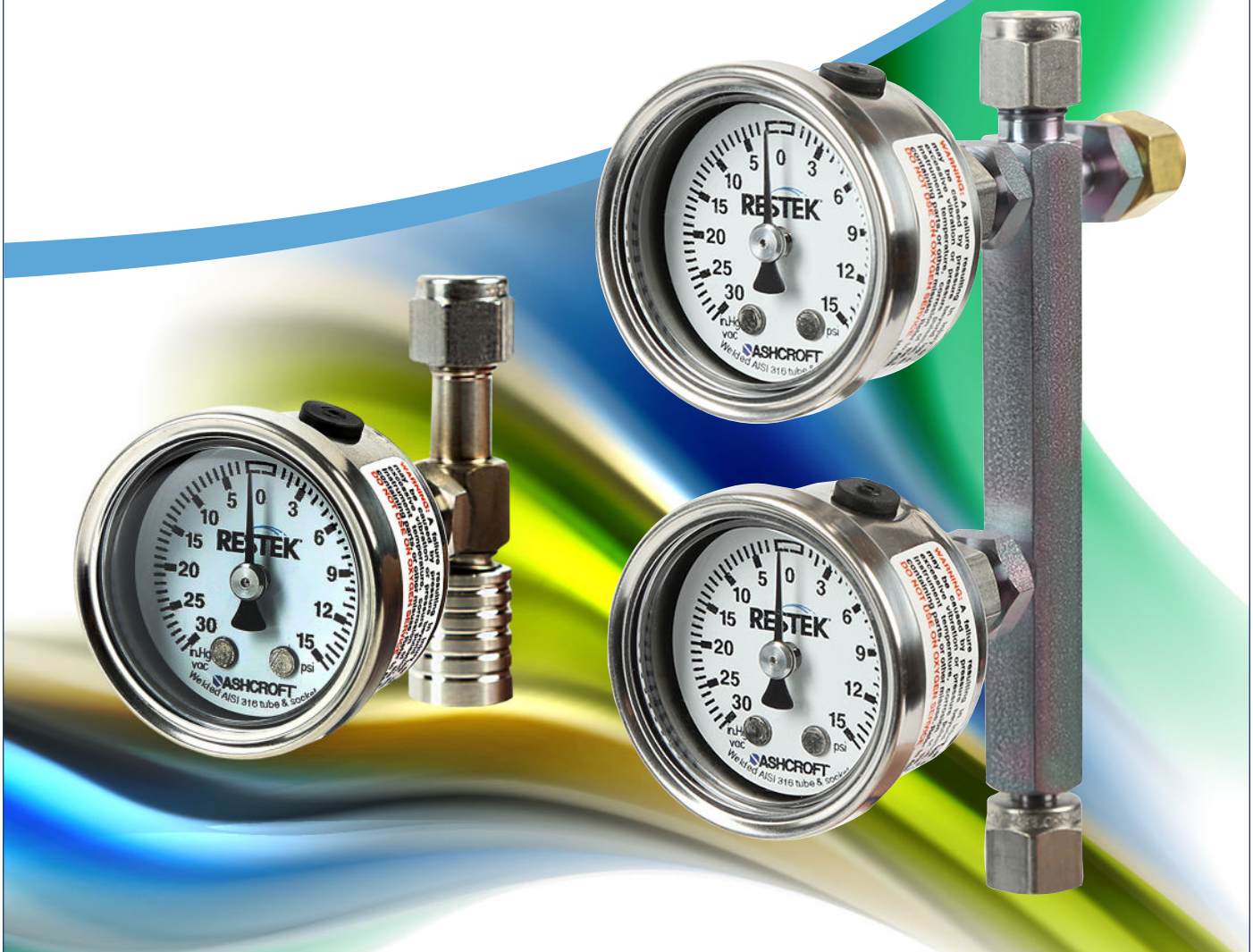
Restek Air

Restek Soil Gas Samplers

Fewer Connections, Fewer Leaks, Fewer Errors



RESTEK Pure Chromatography www.restek.com

Restek Soil Gas Samplers

Fewer Connections, Fewer Leaks, Fewer Errors

Restek soil gas samplers are designed for simplicity, reliability, and flexibility, so you can maximize data accuracy while minimizing time, expense, and user error. Available in three popular configurations and a range of flow rates, these samplers are ideal for worry-free soil vapor testing. Because we've minimized the number of connections, they are easier to use and have fewer places where leaks can occur.

- **Simplicity**
  - Easy to clean and maintain; screw-in frit filter takes just seconds to replace.
  - Fewer connections mean fewer leaks and a quicker, easier set up.
  - Ships leak tested for out-of-the box performance.
- **Reliability**
  - All-stainless-steel construction means no sample contamination from degrading O-rings.
  - Every unit is leak tested (1 x 10^{-6} mL/sec) to ensure performance.
  - Individually laser etched with serial number and flow rate—no more guesswork from lost tags or labels.
- **Flexibility**
  - Available in three styles with the most in-demand features.
  - Choose from Siltek-coated or uncoated stainless steel.
  - Comes in three common flow rates to meet most sampling needs.

Style 1

- Dual gauges
- Purge port
- RAVEqc quick-connect outlet fitting

Style 2

- Dual gauges
- Purge port
- ¼" compression outlet fitting

Style 3

- Single gauge
- RAVEqc quick-connect outlet fitting

Proven to Be Clean and Inert to Ensure Reliable Soil Gas Sampling Results

To generate the most accurate data, labs should use soil gas samplers that are clean and inert. To confirm cleanliness, we passed lab air through the samplers and testing it according to Method TO-15A. Inertness was examined by comparing data from a direct measurement of a 200 pptv spiked air canister to data from the same canister when it was connected to the samplers. Results demonstrated that Restek soil gas samplers are extremely clean (0.0 ppb for most compounds) and highly inert with an average recovery for all compounds within 15% of the direct measurement.

Compound	Cleanliness (Avg. ppb)	Inertness (Avg. %Recovery)
Propylene	0.0	90%
Dichlorodifluoromethane (CFC-12)	0.0	100%
1,2-Dichlorotetrafluoroethane (CFC-113)	0.0	92%
Chloromethane	0.0	95%
Vinyl chloride	0.0	92%
1,3-Butadiene	0.0	105%
Bromomethane	0.0	103%
Chloroethane	0.0	95%
Trichlorofluoromethane (CFC-11)	0.0	103%
1,1-Dichloroethene	0.0	100%
Ethanol*	5.1	93%
Carbon disulfide*	0.8	96%
1,1,2-Trichlorotrifluoroethane	0.0	100%
Acrolein	0.0	96%
Isopropyl alcohol	0.0	118%
Methylene chloride*	0.9	111%
Acetone*	0.5	89%
trans-1,2-Dichloroethene	0.0	98%
Hexane	0.0	114%
1,1-Dichloroethane	0.0	92%
Vinyl acetate	0.0	104%
cis-1,2-Dichloroethene	0.0	107%
Cyclohexane	0.0	106%
Chloroform	0.0	92%
Carbon tetrachloride	0.0	96%
Ethyl acetate	0.0	111%
Tetrahydrofuran	0.0	105%
1,1,1-Trichloroethane	0.0	100%
2-Butanone (MEK)	0.0	95%
Heptane	0.0	104%
Benzene	0.0	102%
1,2-Dichloroethane	0.0	108%

Compound	Cleanliness (Avg. ppb)	Inertness (Avg. %Recovery)
Trichloroethylene	0.0	100%
1,2-Dichloropropane	0.0	102%
Bromodichloromethane	0.0	94%
Methyl methacrylate	0.0	100%
1,4-Dioxane	0.0	110%
cis-1,3-Dichloropropene	0.0	95%
Toluene	0.0	98%
4-Methyl-2-2pentanone (MIBK)	0.1	104%
Tetrachloroethene	0.0	102%
trans-1,3-Dichloropropene	0.0	99%
1,1,2-Trichloroethane	0.0	102%
Dibromochloromethane	0.0	98%
1,2-Dibromoethane	0.0	95%
2-Hexanone (MBK)	0.0	97%
Chlorobenzene	0.0	98%
Ethylbenzene	0.0	102%
m- & *p*-Xylene	0.0	100%
o-Xylene	0.0	104%
Styrene	0.1	100%
Bromoform	0.0	101%
1,1,2,2-Tetrachloroethane	0.0	102%
4-Ethyltoluene	0.0	103%
1,3,5-Trimethylbenzene	0.0	110%
1,2,4-Trimethylbenzene	0.0	95%
1,3-Dichlorobenzene	0.0	99%
1,4-Dichlorobenzene	0.0	106%
Benzyl chloride	0.0	99%
1,2-Dichlorobenzene	0.0	99%
Hexachlorobutadiene	0.0	99%
1,2,4-Trichlorobenzene	0.0	104%
Naphthalene	0.0	103%

*Compound present in lab air during testing.

27249

Soil Gas Samplers

- Rugged, unibody design has fewer connections, minimizing the places leaks could occur.
- All-stainless-steel construction means easy cleaning and no contamination from degrading O-rings.
- Simple to operate and easy to maintain, so you save time and money.
- Samplers ship leak tested (1 x 10^{-6} mL/sec) and ready to use, reducing equipment prep time.
- Individually laser etched with serial number and flow rate—no more guesswork from lost tags or labels.
- Choose Siltek-treated samplers for maximum inertness.

Catalog No.	Product Name	Units
27243	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 180 mL/min	ea.
27244	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 180 mL/min, Siltek Treated	ea.
27245	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 150 mL/min	ea.
27246	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 150 mL/min, Siltek Treated	ea.
27247	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 100 mL/min	ea.
27248	Soil Gas Sampler, Single Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 100 mL/min, Siltek Treated	ea.
27249	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 180 mL/min	ea.
27250	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 180 mL/min, Siltek Treated	ea.
27251	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 150 mL/min	ea.
27252	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 150 mL/min, Siltek Treated	ea.
27253	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 100 mL/min	ea.
27254	Soil Gas Sampler, Dual Gauge, Tube Stub Outlet Fitting, 100 mL/min, Siltek Treated	ea.
27255	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 180 mL/min	ea.
27256	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 180 mL/min, Siltek Treated	ea.
27257	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 150 mL/min	ea.
27258	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 150 mL/min, Siltek Treated	ea.
27259	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 100 mL/min	ea.
27260	Soil Gas Sampler, Dual Gauge, Female RAVEqc Quick-Connect Outlet Fitting, 100 mL/min, Siltek Treated	ea.

27263

Air Sampling Bottles

- Ideal for soil gas testing: air sampling bottles are more cost-effective for highly contaminated samples than air canisters.
- Protective, foam-filled box prevents bottle breakage during sampling, transportation, and analysis. (Also available without the foam-filled box.)
- Easy-access valve chamber lets you connect to sampling and analysis devices while the bottle stays protected in the box.
- Inert, deactivated glass ensures reactive compounds are stable and can be accurately reported.
- Rugged cap seal and leak-tight RAVEqc quick-connect valve prevent sample loss.
- Also suitable for indoor or ambient air sampling methods, such as Method TO-15A.
- Maximum pressure: 10 psig.

Catalog #	Product Name	Units
27263	Air Sampling Bottle Kit, Stainless-Steel Valve, with Protective Box	kit
27264	Air Sampling Bottle Kit, Siltek-Treated Valve, with Protective Box	kit
27261	Air Sampling Bottle Kit, Stainless-Steel Valve	kit
27262	Air Sampling Bottle Kit, Siltek-Treated Valve	kit
27267	Replacement Air Sampling Bottles, 1 L Amber Bottles (IP Deactivated) with Caps, 12-pk.	12-pk.
27265	Male RAVEqc Quick-Connect Valve for Air Sampling Bottles, Stainless Steel	ea.
27266	Male RAVEqc Quick-Connect Valve for Air Sampling Bottles, Siltek Treated	ea.

Replacement Frits

Catalog No.	Product Name	Units
26477	2 µm Frit	ea.
26478	2 µm Frit	10-pk.

SilcoCan Air Sampling Canisters

- Siltek-treated canister with optional Siltek-treated valve offers unsurpassed inertness, even for sulfur-containing or brominated compounds.
- High-quality, metal-to-metal seal, 2/3-turn valve with stainless-steel diaphragms prevents sample adsorption for more accurate results.
- Canisters and valves made of 304 and 316 stainless steel to withstand the rigors of field work.
- Both 2-port and 3-port valves are available; 3-port valve includes -30" Hg/60 psi vacuum/pressure gauge (other gauges available).
- Featuring the proven long life, leak-free performance, and effortless operation of RAVE+ valves.

27298

Catalog No.	Volume	Modification	Units
27298	1 L	2-Port RAVE+ Valve	ea.
27299	1 L	2-Port, Siltek-Treated RAVE+ Valve	ea.
27300	1 L	3-Port RAVE+ Valve with Gauge*	ea.
27301	1 L	3-Port Siltek-Treated RAVE+ Valve with Gauge*	ea.
22090	1 L	without Valve	ea.
27302	3 L	2-Port RAVE+ Valve	ea.
27303	3 L	2-Port, Siltek-Treated RAVE+ Valve	ea.
27304	3 L	3-Port RAVE+ Valve with Gauge*	ea.
27305	3 L	3-Port Siltek-Treated RAVE+ Valve with Gauge*	ea.
22091	3 L	without Valve	ea.
27306	6 L	2-Port RAVE+ Valve	ea.
27307	6 L	2-Port, Siltek-Treated RAVE+ Valve	ea.
27308	6 L	3-Port RAVE+ Valve with Gauge*	ea.
27309	6 L	3-Port Siltek-Treated RAVE+ Valve with Gauge*	ea.
22092	6 L	without Valve	ea.

*Range of standard gauge is -30" Hg to 60 psi.

TO-Can Air Sampling Canister

- Proprietary electropolished surface maintains compound stability.
- High-quality, metal-to-metal seal, 2/3-turn valve with stainless-steel diaphragms prevents sample adsorption for more accurate results.
- Both 2-port and 3-port valves available; 3-port valve includes -30" Hg/60 psi vacuum/pressure gauge (other gauges available).
- SUMMA canister equivalent.
- Featuring the proven long life, leak-free performance, and effortless operation of RAVE+ valves.

27315

Catalog No.	Volume	Modification	Units
27314	1 L	2-Port RAVE+ Valve	ea.
27315	1 L	3-Port RAVE+ Valve with Gauge*	ea.
22094	1 L	without Valve	ea.
27316	3 L	2-Port RAVE+ Valve	ea.
27317	3 L	3-Port RAVE+ Valve with Gauge*	ea.
22095	3 L	without Valve	ea.
27318	6 L	2-Port RAVE+ Valve	ea.
27319	6 L	3-Port RAVE+ Valve with Gauge*	ea.
22096	6 L	without Valve	ea.

*Range of standard gauge is -30" Hg to 60 psi.

Learn more at **www.restek.com/SoilGas**

RESTEK
Pure Chromatography

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