

Soil Gas Sampler (Dual Gauge, 1/4" Compression Outlet Fitting)

(cat.# 27249-27254)

Warning: When qualifying or cleaning this sampler, do not exceed 15 psig (the upper value of the gauge) as it can lead to irreversible damage.

Restek soil gas samplers are available in several configurations. These instructions detail how to use soil gas samplers that have two gauges and a 1/4" compression outlet fitting. This configuration has the following components, as shown in Figure 1.

- Sample inlet: 1/4" compression fitting for an incoming sample line.
- Frit: screw-in replaceable 2 µm frit (cat.# 26477 or 26478).
- Purge port: 1/4" compression fitting for a vacuum source (used to purge the sampler and sample line).
- Canister outlet: 1/4" compression fitting.
- Downhole gauge: gauge for measuring sample line obstructions (connects with a 1/4" tube stub).
- Canister gauge: gauge for measuring canister vacuum/pressure during sampling (connects with a 1/4" tube stub).

Connecting to a Canister with a RAVE+ Diaphragm Valve (or Similar)

NOTE: The outlet fitting on this style soil gas sampler is a compression fitting. If using an air sampling bottle for sample collection, use a Restek soil gas sampler that has a compatible RAVEqc quick-connect fitting. Visit www.restek.com for our full selection of soil gas samplers.

1. Confirm that the diaphragm valve on the air sampling canister is closed, then connect the soil gas sampler to the canister via the 1/4" compression outlet fitting (Figure 2).
2. Connect the sample line to the sample inlet via the 1/4" compression fitting on the top of the soil gas sampler as shown in Figure 3.
3. If purging the sampler and sample line is desired (optional), connect a vacuum source line to the 1/4" compression fitting purge port on the side of the soil gas sampler (Figure 4). Then, turn on the vacuum and open the valve to vacuum to purge the system. When purging is complete, turn off the vacuum.
4. Open the canister diaphragm valve to begin sampling.

Frit Replacement

1. Remove the nut from the sample inlet. Then, using a small flathead screwdriver, unscrew the frit and remove it from the soil gas sampler (Figure 5).
2. Screw in a new frit and replace the nut or cap on the sample inlet.

Cleaning

The soil gas sampler can be cleaned by repeated pressure cycles with humid air or nitrogen and evacuation under heat, similar to the process used for cleaning an air sampling canister. When cleaning, do not exceed 120 °C for stainless-steel parts, 80 °C for Siltek-coated parts, or 15 psig if gauges are attached.

Questions about this or any other Restek product?

Contact us or your local Restek representative (www.restek.com/contact-us).

Restek patents and trademarks are the property of Restek Corporation. (See www.restek.com/Patents-Trademarks for full list.) Other trademarks in Restek literature or on its website are the property of their respective owners. Restek registered trademarks are registered in the U.S. and may also be registered in other countries.

© 2024 Restek Corporation. All rights reserved. Printed in the U.S.A.

www.restek.com

#500-03-005 Rev. date: 04/24

Figure 1: Soil Gas Sampler

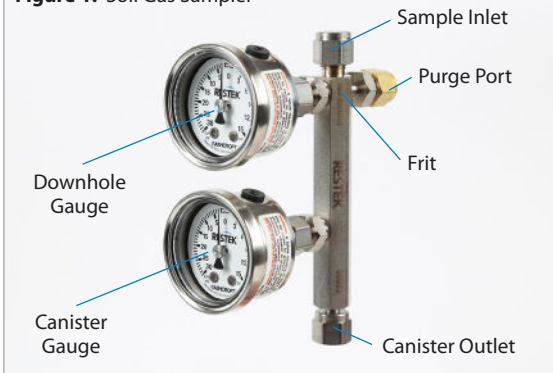


Figure 2: A soil gas sampler connected to an air sampling canister.



Figure 3: A sample line installed in the sample inlet of a soil gas sampler.



Figure 4: Line to a vacuum source installed in the purge port.



Figure 5: Open the sample inlet to replace the frit.



RESTEK
Pure Chromatography