

Soil Gas Sampler (Single Gauge, RAVEqc Quick-Connect Outlet Fitting)

(cat.# 27243-27248)

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 compatible with air sampling canisters and bottles, and they are available in several configurations. These instructions detail how to use soil gas samplers that have one gauge and a RAVEqc quick-connect 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).
- Canister outlet: female RAVEqc quick-connect fitting.
- 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) and a Male RAVEqc Quick-Connect Fitting

NOTE: Before beginning, ensure that the canister diaphragm valve is closed to prevent premature sampling. Once the RAVEqc fittings are engaged, the quick-connect valve will open, and sampling will start automatically.

1. Connect the soil gas sampler to the air sampling canister via their respective female and male RAVEqc quick-connect fittings (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. Open the canister diaphragm valve to begin sampling.

Connecting to a Canister with Only a Male RAVEqc Quick-Connect Fitting (No Diaphragm Valve) or to an Air Sampling Bottle

NOTE: Sampling will begin immediately after the RAVEqc quick-connect fittings are engaged.

1. 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.
2. Connect the soil gas sampler to the collection container (air sampling canister or bottle) via their respective female and male RAVEqc quick-connect fittings (Figure 2).

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 4).
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?

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Figure 1: Soil Gas Sampler

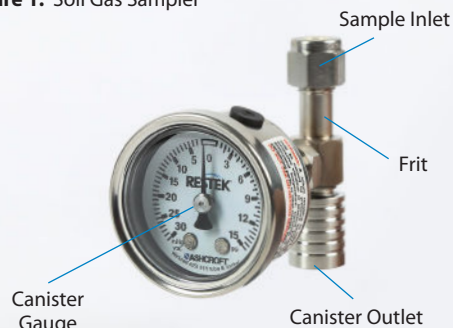


Figure 2: A soil gas sampler connected to an air sampling canister.



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



Figure 4: Open the sample inlet to replace the frit.



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