



24182

Canisters are the gold standard for ambient VOC monitoring.

Get the ultimate insurance plan—order your SilcoCan® canister with a Siltek® treated valve.

### SilcoCan® Air Monitoring Canisters

Ideal for low-level reactive sulfur (1-20 ppb), TO-14A, or TO-15 compounds

- High quality, metal-to-metal seal, 2/3-turn valve with stainless steel diaphragms.
- Sizes to support a wide range of sampling needs.
- 2-port or 3-port valve available; 3-port valve includes -30" Hg/60psi vacuum/pressure gauge (other gauges available).
- 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.

#### Features

#### Benefits

Siltek® treated.	High inertness—ensures sample stability.
High-purity, 2/3-turn valve with stainless steel diaphragms.	No sample adsorption at the valve, for more accurate results; easy to use.
Vacuum/pressure gauge (optional).	Ascertain internal conditions at a glance.
Variety of sizes.	Meet extensive range of sampling needs.
Stable to 250°C.	Heat canister to 250°C for superior cleaning.
Siltek® valve available (add suffix “-650” to cat.#).	Completely passive sample pathway for maximum sample stability.

Description	1L Volume		3L Volume		6L Volume		15L Volume	
	cat.#	price	cat.#	price	cat.#	price	cat.#	price
<b>Parker Diaphragm Valve</b>								
w/ Parker Diaphragm Valve	24180		24181		24182		24183	
w/ Parker Diaphragm Valve, Siltek Treated	24180-650		24181-650		24182-650		24183-650	
w/ Parker Diaphragm Valve, and Gauge*	24140		24141		24142		24143	
w/ Parker Diaphragm Valve, Siltek Treated, and Gauge*	24140-650		24141-650		24142-650		24143-650	
<b>without Valve</b>	22090		22091		22092		22093	

\*Range of standard gauge is -30"Hg to 60psi.  
For additional gauge and valve options, see pages 412-413.

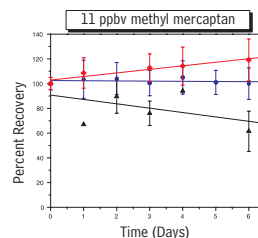
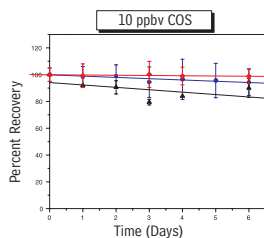
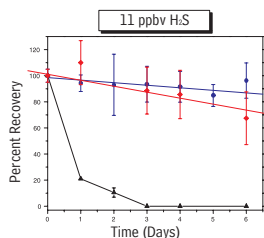


### also available

We also offer sampling kits, sampling bags, and a range of gas reference standards to meet your environmental gas sampling requirements. See **pages 414-432**.

Whether you are monitoring for TO-14A, TO-15, or reactive sulfur compounds, SilcoCan® canisters are your best choice for inertness. In Tedlar® bags, the stability of low-level (100 ppbv) sulfur volatile organic compounds (VOCs) is poor, even within 24 hours of sampling. Sulfur compounds react with the metal surface in electropolished canisters, so these canisters are unsuitable for collecting and storing low-level sulfur VOCs. SilcoCan® air monitoring canisters, which feature a Siltek® treated surface, offer excellent storage stability for sulfur VOCs at very low levels (1–20 ppbv), under dry or humid conditions. The versatility of the SilcoCan® canister makes it an excellent choice for collecting and storing TO-14A or TO-15 compounds.

### SilcoCan® canisters effectively store very low levels of sulfur compounds.



**Standards:** Dry standards were made by adding 2mL of a 100ppm stock sulfur standard to each pre-cleaned and evacuated canister, then pressurizing to 30psi with ultra-pure nitrogen. The resultant concentrations are listed in Applications Note #59347A (download your free copy from [www.restek.com](http://www.restek.com)). Humidified standards were made by injecting 100µL of deionized water into the evacuated canisters prior to adding 2mL of stock standard. This produced 50% RH.

**GC Column:** Rtx®-1, 60m, 0.53mm ID, 7.0µm; **Detector:** Sievers Model 355 Sulfur Chemiluminescence Detector

- Dry SilcoCan® (n=18)
- ◆ Humidified SilcoCan® (n=5)
- ▲ Electropolished (n=2)