

Reduced Sulfur Sampling into Canisters



29-MC400SV MiniCan



Silonite® Coated 39-RSx Samplers



29-MC400S MiniCan™



39-FQFS attached to MiniCan Quick Connect



29-MC600QT2



39-RS-QSx with Silonite® Coated Quick Connect



30-22510



39-RS-QTx
(See Code x on Pg 17)



39-CS1200ES
Silonite® Coated Sampler

Low Pressure Reduced Sulfur (0.1 to 100 ppb)

Sulfur gases can be collected and analyzed using Silonite® coated samplers and canisters. Sulfur compounds have been shown to be stable in Silonite® canisters for 1-2 weeks, allowing sufficient time to perform laboratory analysis, even if samples must be shipped long distances after sampling. Odor threshold levels can be met using GCMS or GC/CLD (Chemiluminescence Detector) when preconcentrating 10 to 200cc of sample. Higher concentration samples can be analyzed directly by loop injection. Several canister sizes are available depending on the detection limits and the number of repeat analyses required.

Recent studies have shown that H₂S and mercaptans are not stable in the presence of condensed water. As relative humidity levels increase to above 40%, the increased amount of surface-bound water will reduce the stability of sulfur in any container. Since water molecules can easily pass in and out of Tedlar bags, maintaining a dry environment to maximize RS-H recovery in Tedlar bags is very difficult. Samples collected in Silonite® coated canisters can be kept below 45% humidity by either first filling the canister to half full with dry UHP nitrogen and taking a grab sample, or by stopping the sample integration during collection when the canister is only half full. Controlling a collected sample's relative humidity is unique to the canister sampling technique.

	Unit	Part No.	Description
NUPRO VALVE	EA	29-MC400SV	0.4L MiniCan™ with Silonite® Nupro Valve
	EA	29-MC1400SV	1.4L MiniCan™ with Silonite® Nupro Valve
	EA	29-10272	2.7L Canister with Silonite® Nupro Valve
	EA	29-10622	6.0L Canister with Silonite® Nupro Valve
	EA	39-RS-x	Restricted Sampler for Silonite® Canisters (X=0 to 6, see codes on Page 15)
	EA	39-CS1200ESx	Silonite® Sampler for Nupro Valve Canisters (X=1 to 5, see codes on Page 23)
QC VALVE	EA	29-MC400S	0.4L MiniCan™ with Silonite® QC Valve
	EA	29-MC1400S	1.4L MiniCan™ with Silonite® QC Valve
	EA	39-FQFS	Filtered Quick Fill Sampler
	EA	39-RS-QSx	Restricted Sampler for QC MiniCans (X=0 to 6, see codes on Page 19)
	EA	30-20510	Female FSL QC CS1200ESx Adapter
MICRO-QT™ VALVE	EA	29-70010	Vacuum Check Gauge for MiniCans
	EA	29-MC600QT2	0.6L MiniCan™ with Silonite® Micro-QT2™ Valve
	EA	29-MC1400QT	1.4L MiniCan™ with Silonite® Micro-QT™ Valve
	EA	29-BV460S	Silonite Coated 16 oz Bottle-Vac™
	EA	30-22510S	Silonite® Coated Micro-QT™ Grab Sampler
	EA	39-RS-QTSx	Silonite® Coated Micro-QT™ Restricted Sampler (X=0 to 6, see codes on Page 19)
EA	29-70010QT	Micro-QT™ Valve Vacuum Check Gauge	