

Valves and Gauges for Air Sampling Applications

Replacement RAVE™ Diaphragm Valves

- Proven long life—durable design is engineered to exceed 15,000 cycles.
- Leak-free performance—every valve is helium leak-tested to 1×10^{-6} mL/sec.
- Effortless operation—easily finger-turn to achieve full valve closure (only 10 in-lb).
- Enhanced damage-resistance—W-type valve seats are work-hardened and wetted surfaces contain no moving parts.
- Now standard on our full line of SilcoCan®, TO-Can®, and miniature air sampling canisters.



Description	qty.	Siltek-treated	Stainless Steel
		cat.	cat.
1/4" Replacement Diaphragm Valve, RAVE (2-port)	ea.	26386	26385
1/4" Replacement Diaphragm Valve, RAVE (3-port)	ea.	26388	26387
RAVE Diaphragm Rebuild Kit (includes: 3 diaphragms)	kit	26390	26389



Replacement Swagelok® SS4H Bellows Valve

- All metal flow path prevents sample adsorption, giving more accurate results.
- Unique serial number on each valve for complete traceability.
- Withstands temperatures of up to 300 °C.
- Rugged performance in the field.
- Fast delivery from Restek!

Description	qty.	cat.
Replacement 1/4" Swagelok SS4H Bellows-Sealed Valve (2-port)	ea.	24148

Replacement 1/4" Swagelok SS4H bellows-sealed valves are available on SilcoCan canisters as a custom product. Contact Technical Service for more information.



Replacement Combination Vacuum/Pressure Gauges

2-inch vacuum/pressure gauges, 316 stainless steel with 1/8" NPT fitting and center back mount. Recommended for use with canisters.

Description	qty.	cat.#
-30" Hg/15 psi Vacuum/Pressure Gauge	ea.	24100
-30" Hg/30 psi Vacuum/Pressure Gauge	ea.	24104
-30" Hg/60 psi Vacuum/Pressure Gauge	ea.	24108



24108

Alternative Mounted Vacuum/Pressure Gauges

The standard vacuum/pressure range on a SilcoCan® or TO-Can® canister fitted with a gauge is -30" Hg to 60 psi. To have a different gauge mounted on your canister, add the appropriate suffix number to the canister catalog number.*

Gauge	Suffix
-30" Hg/15 psi	-651
-30" Hg/30 psi	-652

*No price difference for these substituted gauges.

Vacuum Gauges

High-quality vacuum gauges with 316 stainless steel wetted surfaces. -30" Hg to 0" Hg. Recommended for use with passive sampling kits. All are rear mount.

Description	Fittings	qty.	cat.#
2" Vacuum Gauge	1/8" NPT	ea.	24269
2" Vacuum Gauge	1/4" NPT	ea.	24270
1 1/2" Vacuum Gauge	1/8" NPT	ea.	24120



24120



24285



24268

Ashcroft® Test Gauges

- Accurate measurement of vacuum to -30" Hg and pressure to 60 psi.
- Available in both analog and digital formats.
- Accuracy to +/- 0.25%.
- Gauge connector to canister valve available.

High-accuracy test gauges are recommended for verifying the vacuum/pressure in canisters before and after sampling. The 6-inch face on the analog gauge allows for easy reading. The digital gauge operates on two AAA batteries and offers an unambiguous readout. Both gauges have an accuracy of +/- 0.25% and all-metal wetted parts.

Description	qty.	cat.#
Analog Test Gauge, 6" diameter, 1/4" NPT	ea.	24285
Digital Test Gauge, 3" diameter, 1/4" NPT	ea.	24268
Ashcroft Gauge Connector to Canister Valve, stainless steel, connects 1/4" male NPT to 1/4" male compression fitting	ea.	22121

Choose the Appropriate Device for Your Sampling Needs



	Canister	Gas Sampling Bag	Thermal Desorption Unit (TDU) Tube
Media Type	whole air	whole air	adsorption
Sensitivity	ppb	ppm	ppm
Technique	passive (no pump)	active	active
Sample Type	grab or integrated	grab	integrated
Analyte	wide range of VOCs	wide range of VOCs & permanent gases	sorbent-specific
Applications	ambient, IAQ, emergency response, IH	ambient, IAQ emission	IAQ, IH
Durability	reusable	one-time use	one-time use
Inertness	excellent	fair	fair
Stability	30 day	48 hours	varies by analyte
Sample Volume	0.4-6 L	0.5-100 L	varies by analyte
Sampling Time	minutes to days	minutes to hours	minutes to hours

See pages 421-422 for canisters. See page 436 for gas sampling bags. See page 438 for canister and thermal desorption tube comparison.