

# VeriAir Flex™ Manual Inflating Sample Bags



## Nextteq's Line of Self Inflating Sample Bags

### VeriAir Flex Manual Inflating Sample Bag

### All-in-One Pump and Sample Bag

The VeriAir Flex patented volumetric pump and sample bag design lets you rapidly collect an air sample in a bag, saving you time and money when compared to other methods. Everything you need to collect a grab sample of air or gas is integrated into a simple, inexpensive system. You avoid the need for additional electric pumps and their required calibration.

# VeriAir Flex Manual Inflating Sample Bag

## EASY TO USE

Unlike other gas sample bag collection methods there is no electric pump set up, no pump calibration or required calibration equipment, and no complex special training even for non-technical personnel.

The VeriAir Flex requires no maintenance and no batteries to charge or replace. The VeriAir Flex is designed so anyone can use it, anytime, anywhere.

## ON-THE-SPOT RESULTS & LABORATORY ANALYSIS

The VeriAir Flex sampling bag is ideal for emergency response situations, where an atmospheric air sample can be collected in a hot zone and then moved to a safe zone to be immediately tested with a portable gas chromatograph or other analytical instrument. With the optional detector tube adaptor, Gastec direct reading pre-calibrated detector tubes can be used to screen the sample for target gases for immediate action and then the sample can be sent for laboratory analysis. Unlike stainless steel canisters, there are no dilution gas or volume calculations required when sampled gas is removed for off-site laboratory analysis.

## ALWAYS READY

Lightweight, compact, and easily stored or carried, Nextteq's intrinsically safe VeriAir Flex sampling bag has handles made of static charge dissipation materials and is always ready to collect an air sample anywhere, at anytime. Requiring no equipment prep, no battery charging or battery replacement, and no calibration or other maintenance means that the VeriAir Flex is ideal for rapidly collecting an unknown nuisance aroma or odor at a moments' notice, and is great for emergency response, hazmat, HAZWOPER, or everyday situations.

## COLLECT A MORE ACCURATE AND RELIABLE SAMPLE

The VeriAir Flex built in volumetric pump and valve allows you to rapidly and easily inflate and expel air from the sample bag several times before sample collection, thereby allowing absorption equilibrium of containments of the air sample on to the interior surface of the sample bag. Flushing the sample bag before sample collection means you obtain a more accurate and reliable sample with more precise sample recovery. The analytical grade inner polyolefin lining is recommended for stable storage of most gases.

## BUILT TOUGH

Protected by 4 mm corrugated plastic panels, the analytical grade 6-mil, tear-, puncture- and friction-resistant multilayer sample bag material has a nylon coated aluminum exterior and a polyolefin lining that is recommended for stable storage of most gases. Designed as an approximately one liter sample bag when filled using the manual VeriAir Flex bag handles, the reserve capacity, along with the patented construction, allows the VeriAir Flex to expand almost an additional 1 liter. The VeriAir Flex sampling bag can be shipped in airline cargo compartments pressurized up to 11,000 ft. The VeriAir Flex is rated for temperatures of up to 176°F degrees or 86°C and the multilayer bag material is rated at 5,800 lbs tensile strength.

## DESIGN BENEFITS OF THE VERIAIR FLEX

The VeriAir Flex is the only integrated manual pump and gas sample bag available on the market today. Another advantage of the patented design is that the plastic pump handles act as protective side panels resulting in a more rugged product than traditional gas sample bags. The multilayer foil bag material is ideal for light sensitive compounds and offers excellent barrier properties. Each VeriAir Flex includes a unique identifying number on the label that can be used for chain of custody or sample retention records.

### Sample Method Comparison

	VERIAIR FLEX™	TEDLAR BAG	STAINLESS STEEL CANISTER
Extra equipment needed to collect sample	—	X	X
Ready to sample anytime, anywhere with NO preparation needed	X	—	—
Can be air shipped when filled with sample	X	—	X
Ability to sample with a detector tube before sending to lab	X	X	—
Offsite sample analysis can be performed with no dilution gas or volume calculations	X	X	—



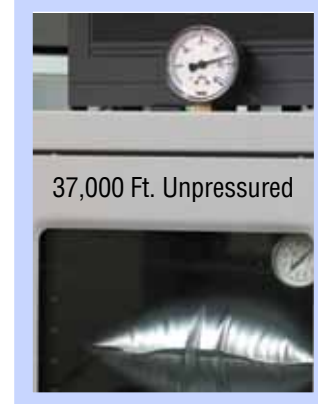
# Self Inflating Sample Bag

## SUITABILITY TEST FOR LOW PRESSURE AIR SHIPPING

VeriAir Flex sampling bags were tested under low-pressure vacuum conditions to simulate air shipping under a range of pressurizations. VeriAir Flex bags were filled using the integrated manual handles. Bags were then subject to various low-pressure conditions for 16-hours. After testing, the bags were observed for mechanical integrity (leaks) and sample loss (change in volume). VeriAir Flex bags showed no leaks or change in volume after all low-pressure tests were completed, as shown on the table below. VeriAir Flex sampling bags can be safely air shipped when rush overnight sample delivery is required.

## SIMULATED ALTITUDE TEST CONDITIONS

feet	meters	inches Hg	mm Hg	psia	kg/cm2	kPa
3500	1067	26.3	673	12.9	0.909	89.1
4000	1219	25.8	661	12.7	0.893	87.5
4500	1372	25.4	649	12.5	0.876	85.9
5000 Airbus 380 Cargo Pressure	1524	24.9	637	12.2	0.86	84.3
6000	1829	24	613	11.8	0.828	81.2
7000 Boeing 767 Cargo Pressure	2134	23.1	590	11.3	0.797	78.2
8000	2438	22.2	568	10.9	0.768	75.3
9000	2743	21.4	547	10.5	0.739	72.4
10000 Emergency Cabin pressure	3048	20.6	526	10.1	0.711	69.7
15000	4572	16.9	432	8.29	0.583	57.2
20000	6096	13.8	352	6.75	0.475	46.6
25000	7620	11.1	284	5.45	0.384	37.6
30000	9144	8.89	227	4.36	0.307	30.1
37000 Bags Max. tested altitude	11668	7.04	180	3.46	0.243	23.8



### Ordering Information

Part Number	Description
31000	VeriAir Flex™ 1L Manual Inflating Sample Bag



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