



# AIR SENTRY BREATHERS

GOLD STANDARD CONTAMINATION CONTROL • GUARANTEED CLEAN AIR • KEEP BEST PRACTICE

# GUARDIAN SERIES BREATHERS

Air Sentry® set the industry gold standard with their first line of contamination control breathers in 1997 and today that standard is raised with GUARDIAN.

Constructed of Tritan; this material is the most chemical, temperature, and impact resistant combination casing on the market. The modular, stackable design of the GUARDIAN also allows for customization to specific business applications, and part replacement as needed.

Options are available to include an Isolation Check Valve, which separates the adsorbent from exhaust air to lengthen service life of the desiccant, while also protecting it from volatile and splashing fluids.



### Shield Wash-Down Cap (Optional)

Ideal for dusty environments, or where equipment wash down spray may come into contact. Perfect for use in food processing, mining, cement, pulp, and the outdoors.



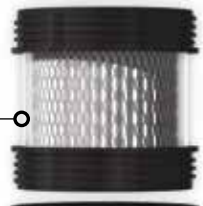
### High Capacity Air Filter (Optional)

0.3 micron HEPA Air Filter, ideal for highly dusty/dirty environments. Made for use with the Modular Stack Ring.



### Modular Stackable Ring (Optional)

Allows for the attachment of air filter cartridges, extending breather life.



### Top Cap w/ Check Valves

### Cartridge (Optional Isolation Check Valve)

### Compound Vacuum/Pressure Gauge (Optional)

An accurate indicator of filter conditions.



### Bottom Cap w/ Check Valves



**COMPATIBLE W/ DIESEL FUEL APPLICATIONS**

THE GUARDIAN SERIES IS THE ONLY DESICCANT BREATHING SERIES RECOMMENDED FOR DIESEL FUEL APPLICATIONS (NOT RECOMMENDED FOR OTHER FUEL APPLICATIONS).

## IDEAL FOR MOST APPLICATIONS



# GUARDIAN SERIES BREATHERS

The Guardian pays for itself by extending the life of equipment where it is installed. Plus, its modular design allows you to use it multiple ways.

	DESCRIPTION	CONNECTION	MODEL	ISOLATION CHECK VALVE	COMPOUND INDICATING GAUGE
<b>SMALL</b>	Air Sentry Guardian Silica Gel Desiccant Breather  9"H x 5.125"D 1.5 lbs of silica gel 9.2 fluid ounces of maximum adsorption capacity 25 cfm maximum air flow 187 gpm maximum reservoir fluid flow	1" NPT	G5S1N		
			G5S1NC	•	
			G5S1NG		•
			G5S1NGC	•	•
		2" NPT	G5S2N		
			G5S2NC	•	
			G5S2NG		•
			G5S2NGC	•	•
		1" BSP	G5S1B		
			G5S1BC	•	
			G5S1BG		•
			G5S1BGC	•	•
<b>MEDIUM</b>	Air Sentry Guardian Silica Gel Desiccant Breather  12"H x 5.125"D 2.8 lbs of silica gel 17.2 fluid ounces of maximum adsorption capacity 25 cfm maximum air flow 187 gpm maximum reservoir fluid flow	1" NPT	G8S1N		
			G8S1NC	•	
			G8S1NG		•
			G8S1NGC	•	•
		2" NPT	G8S2N		
			G8S2NC	•	
			G8S2NG		•
			G8S2NGC	•	•
		1" BSP	G8S1B		
			G8S1BC	•	
			G8S1BG		•
			G8S1BGC	•	•
<b>LARGE</b>	Air Sentry Guardian Silica Gel Desiccant Breather  16"H x 5.125"D 4.5 lbs of silica gel 27.6 fluid ounces of maximum adsorption capacity 25 cfm maximum air flow 187 gpm maximum reservoir fluid flow	1" NPT	G12S1N		
			G12S1NC	•	
			G12S1NG		•
			G12S1NGC	•	•
		2" NPT	G12S2N		
			G12S2NC	•	
			G12S2NG		•
			G12S2NGC	•	•
		1" BSP	G12S1B		
			G12S1BC	•	
			G12S1BG		•
			G12S1BGC	•	•

## GUARDIAN ACCESSORIES

	MODEL
Guardian Shield Wash Down Cap	GSWDC
Guardian Modular Stack Ring	GMSR
Guardian High Capacity 0.3 micron HEPA Air Filter	GHCAF
Integrated Compound Vacuum/Pressure Gauge	A655

# D AND Z SERIES BREATHERS



## D-SERIES

Disposable and for Stationary Applications

### APPLICATIONS

Storage Tanks  
Fluid Reservoirs  
Transformers  
Pumps  
Gearboxes

## D-SERIES

The D-Series breathers feature numerous models in a variety of sizes, designed to satisfy the requirements of most stationary fluid management applications. All D-Series models feature 2-micron solid particle filtration. Constructed of industrial grade raw materials, tested to ensure a wide range of chemical compatibilities, and features high impact resistant ABS top and bottom caps.

HEIGHT	MODEL	CONNECTION	DESCRIPTION
5" (12.7cm)	D101	1" slip fit	Air Sentry D-Series Silica Gel Desiccant Breather 5"H x 5"D / 1.4 lbs of silica gel
	D154	1" MNPT	8.6 fluid ounces of maximum adsorption capacity
8" (20.3cm)	D102	1" slip fit	Air Sentry D-Series Silica Gel Desiccant Breather 8"H x 5"D / 2.7 lbs of silica gel
	D103	1" MNPT	16.56 fluid ounces of maximum adsorption capacity
	D104	2" MNPT	
10" (25.4cm)	D108	2" MNPT	Air Sentry D-Series Silica Gel Desiccant Breather 10"H x 5"D / 3.5 lbs of silica gel 21.47 fluid ounces of maximum adsorption capacity
ALL D-SERIES BREATHERS FEATURE:			100% Silica Gel 20 cfm maximum air flow 150 gpm maximum reservoir fluid flow



## Z-SERIES

Limited Space Applications

### APPLICATIONS

Storage Tanks  
Drums  
Totes  
Small Oil Containers

## Z-SERIES

Air Sentry® Z-Series breathers are designed for applications where space is limited or air flow requirements are below 5 cfm. The Z-Series is typically used on gearboxes and low fluid volume applications where mounting space is limited or where a larger breather won't fit without remote mounting.

HEIGHT	MODEL	CONNECTION	DESCRIPTION
2" (5.1cm)	Z131	1/2" FNPT	Air Sentry Z-Series Silica Gel Desiccant Breather 2"H x 2"D / .08 lbs of silica gel .49 fluid ounces of maximum adsorption capacity
3.25" (8.3cm)	Z132		Air Sentry Z-Series Silica Gel Desiccant Breather 3.25"H x 2"D / .1 lbs of silica gel .92 fluid ounces of maximum adsorption capacity
2" (5.1cm)	Z133		Air Sentry Z-Series Silica Gel Desiccant Breather 2"H x 3.25"D / .3 lbs of silica gel 1.84 fluid ounces of maximum adsorption capacity
3.25" (8.3cm)	Z134		Air Sentry Z-Series Silica Gel Desiccant Breather 3.25"H x 5"D / .5 lbs of silica gel 3.06 fluid ounces of maximum adsorption capacity
5.5" (14cm)	Z135		Air Sentry Z-Series Silica Gel Desiccant Breather 5.5"H x 3.25"D / .8 lbs of silica gel 4.91 fluid ounces of maximum adsorption capacity
ALL Z-SERIES BREATHERS FEATURE:			100% Silica Gel 5 cfm maximum air flow 37 gpm maximum reservoir fluid flow

# M AND R SERIES BREATHERS



## M-SERIES Heavy Duty Applications

### APPLICATIONS

Heavy Duty Off-Road Equipment  
Mobile Heavy Equipment  
High Temperatures  
Corrosive Chemicals

## M-SERIES

M-Series breathers are designed from heavy-duty materials capable of handling the requirements of the most severe environments. They replace the standard breather cap or vent tube on fuel tanks and fluid reservoirs. Pipe threads on the bottom standpipe make the units easy to install in moments. All M-Series designs have 2 micron pleated filters and silica gel bags that are easily replaced. They also feature the proprietary Splash Sentry™, which prevents foaming or splashing fluids from entering the breather during normal operating conditions.

HEIGHT	MODEL	CONNECTION	DESCRIPTION
6.6" (16.8cm)	M103	1" MNPT	Air Sentry M-Series Silica Gel Desiccant Breather 6.6"H x 10"D / 2.1 lbs of silica gel 12.88 fluid ounces of maximum adsorption capacity 35 cfm max air flow / 262 gpm max reservoir fluid flow
	M104	2" MNPT	Air Sentry M-Series Silica Gel Desiccant Breather 6.6"H x 10"D / 2.1 lbs of silica gel 12.88 fluid ounces of maximum adsorption capacity 120 cfm max air flow / 900 gpm max reservoir fluid flow
12" (30.5cm)	M105	1" MNPT	Air Sentry M-Series Silica Gel Desiccant Breather 12"H x 10"D / 4.5 lbs of silica gel 27.6 fluid ounces of maximum adsorption capacity 35 cfm max air flow / 262 gpm max reservoir fluid flow
	M106	2" MNPT	Air Sentry M-Series Silica Gel Desiccant Breather 12"H x 10"D / 4.5 lbs of silica gel 27.6 fluid ounces of maximum adsorption capacity 120 cfm max air flow / 900 gpm max reservoir fluid flow
13.5" (34cm)	M107	3" MNPT	Air Sentry M-Series Silica Gel Desiccant Breather 5.5"H x 3.25"D / .8 lbs of silica gel 4.91 fluid ounces of maximum adsorption capacity 300cfm max air flow / 2250gpm max reservoir fluid flow
ALL M-SERIES BREATHERS FEATURE:			100% Silica Gel



## R-SERIES High Vibration Applications

### APPLICATIONS

Cranes  
Railroad Equipment  
Farm Implements  
Construction Vehicles  
Off-Road Trucks

## R-SERIES

Most heavy equipment - productive and on the move - is outfitted with hydraulic fluid tanks or reservoirs which breathe in the dirty outside air. R-Series breathers are ideal for these high vibration, mobile applications, including off-road, construction and farm vehicles. R-Series desiccant breathers are easily mounted in place of standard breather caps via rugged steel pipe threads and a reusable metal base. When the gold silica gel cartridge turns dark green, simply install a new replacement cartridge to keep things moving!

HEIGHT	MODEL	CONNECTION	DESCRIPTION
6.5" (16.5cm)	R101	1" MNPT	Air Sentry R-Series Silica Gel Desiccant Breather 6.5"H x 5.2"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity
	R102		Air Sentry R-Series Silica Gel Desiccant Breather 9.5"H x 5.2"D / 2.7 lbs of silica gel 16.56 fluid ounces of maximum adsorption capacity
6" (15.2cm)	R111	1.125" FT	Air Sentry R-Series Silica Gel Desiccant Breather 6"H x 5.2"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity
6.5" (16.5cm)	R121	2" MNPT	Air Sentry R-Series Silica Gel Desiccant Breather 6.5"H x 5.2"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity
9.5" (24.1cm)	R122		Air Sentry R-Series Silica Gel Desiccant Breather 9.5"H x 5.2"D / 2.7 lbs of silica gel 16.56 fluid ounces of maximum adsorption capacity
12" (30.5cm)	R123		Air Sentry R-Series Silica Gel Desiccant Breather 12"H x 5.2"D / 3.5 lbs of silica gel 21.47 fluid ounces of maximum adsorption capacity
ALL R-SERIES BREATHERS FEATURE:			100% Silica Gel 25 cfm maximum air flow 187 gpm maximum reservoir fluid flow

# X AND XR SERIES BREATHERS



## X-SERIES

High Humidity / High Dust Applications

### APPLICATIONS

Paper Mills  
Wash-Down Areas  
Steam Cleaning Rooms  
Mine Quarries

## X-SERIES

X-Series Breathers are the perfect solution for high humidity and high dust environments. To extend the desiccants life, the X-Series incorporates 2 check valves and a reusable top cap. The check valves provide a closed system until airflow is required, extending the service life of the desiccant.

HEIGHT	MODEL	CONNECTION	DESCRIPTION
6.25" (16cm)	X100	1/2" FNPT	Air Sentry X-Series Silica Gel Desiccant Breather 6.25"H x 3.25"D / .8 lbs of silica gel 4.91 fluid ounces of maximum adsorption capacity 10 cfm maximum air flow 75 gpm maximum reservoir fluid flow Check valve PSI in/out: 0.3/0.3
7" (17.8cm)	X501	1" slip fit	Air Sentry X-Series Silica Gel Desiccant Breather 7"H x 5"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity 20 cfm maximum air flow 150 gpm maximum reservoir fluid flow Check valve PSI in/out: 0.1/2.0
	X503	1" MNPT	
	X521	2" MNPT	
10" (25.4cm)	X502	1" slip fit	Air Sentry X-Series Silica Gel Desiccant Breather 10"H x 5"D / 2.7 lbs of silica gel 16.56 fluid ounces of maximum adsorption capacity 20 cfm maximum air flow 150 gpm maximum reservoir fluid flow Check valve PSI in/out: 0.1/0.1
	X505	1" MNPT	
	X522	2" MNPT	
ALL X-SERIES BREATHERS FEATURE:			100% Silica Gel



## XR-SERIES

Extreme Environment Applications

### APPLICATIONS

Wind Power Generation  
Mining Equipment  
Mobile Equipment

## XR-SERIES

Air Sentry XR-Series breathers, originally conceived for the wind power industry, are designed to perform in any extreme environment where protection from dust, moisture and vibration are critical. XR-Series breathers include a metal reinforced base available with male NPT threads to adapt to your equipment. The base is designed to handle the rigors of high vibration applications. The top cap uses two check valves to prevent outside moisture and solid contaminants from entering the breather until there is a need for airflow.

HEIGHT	MODEL	CONNECTION	DESCRIPTION
8.5" (21.6cm)	XR101	1" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 8.5"H x 5.2"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/2.0
	XR121	2" MNPT	
	XR501	1" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 8.5"H x 5.2"D / 1.4 lbs of silica gel 8.6 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/0.1
	XR521	2" MNPT	
11.5 (29.2)	XR102	1" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 11.5"H x 5.2"D / 2.7 lbs of silica gel 16.56 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/2.0
	XR122	2" MNPT	
	XR502	1" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 11.5"H x 5.2"D / 2.7 lbs of silica gel 16.56 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/0.1
	XR522	2" MNPT	
14 (35.6)	XR108	2" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 14"H x 5.2"D / 3.5 lbs of silica gel 21.47 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/2.0
	XR508	2" MNPT	Air Sentry X-Series Silica Gel Desiccant Breather 14"H x 5.2"D / 3.5 lbs of silica gel 21.47 fluid ounces of maximum adsorption capacity Check valve PSI in/out: 0.1/0.1
ALL XR-SERIES BREATHERS FEATURE:			100% Silica Gel 25 cfm maximum air flow 187 gpm maximum reservoir fluid flow

# BREATHER ADAPTERS/ACCESSORIES



## SPLASH ADAPTER

The Splash Adapter is an anodized steel adapter available in 1" MNPT and 2" MNPT. It protects the breather from splashing fluids when installed on mobile, off-road, or mining equipment.

DESCRIPTION	PART #
Breather 1" MNPT Reservoir 1" MNPT	A-310
Breather 2" MNPT Reservoir 1" MNPT	A-311



## OIL SAMPLE PORTS

The process of collecting oil via an oil sampling port is critical. Without a true sample, oil analysis reports may be inaccurate. Access to the lubricant is done through the use of a sample port adapter. The sample port adapter screws into the sample port of most Air Sentry adapter kits. Oil samples can then be drawn from the system and placed into a clean sampling bottle for analysis, ensuring that the lubricant is never exposed to contamination by opening the equipment.

**Sample Ports : #A-650**



## BAYONET ADAPTER

Bayonet Adapters replace a standard breather cap on a hydraulic reservoir. Apply by removing the breather cap, placing the bayonet adapter on the existing flange, and rotate one-quarter turn. No tank modification is required and they accommodate Air Sentry breathers with a 1" NPT connection.

**Bayonet Adapter : #A-104DG**



## DOMED FLANGE ADAPTER

Domed Flange Adapters provide a low profile yet rugged way to mount a 1" NPT desiccant breather to a hydraulic reservoir. Includes six hole ANSI pattern gasket and fasteners for perfect replacement of bayonet flange and vent cap. The beveled surface directs spills and contaminants away from the opening.

**Domed Flange Adapter: #A-114DG**

# ADAPTER KITS

Breather Adapter Kits are available, configured with QuickConnects in 10 OilSafe colors. See the full line of kits at [OilSafeSystem.com](http://OilSafeSystem.com) or reach out to one of our representatives today.



A.



## GEARBOX ADAPTER KITS

Gearbox Adapter Kits allow breathers to be installed on any gearbox. Oil can be pumped in or out without opening the gearbox to atmosphere. Offline filtration, oil changes and sampling can be handled through the adapter. They are a faster, simpler and cleaner way to handle gear oils and reduce ingress.

SHOWN: (A.) GEAR BOX ADAPTER W/ MID GREEN MALE DISCONNECTS 3/4" FIT - #96234MGM

B.



## HYDRAULIC RESERVOIR ADAPTER KITS

Hydraulic Reservoir Adapter Kits allow breathers to be installed on any hydraulic fluid tank or reservoir. The patent-pending aluminum adapters have colorized quick connects in two sizes for pumping oil in and out, allowing the system to remain closed at all times, dramatically reducing contamination while improving oil-handling safety. Off-line filtration can also be connected through the adapter without ever disrupting the breather or opening the tank.

SHOWN: (B.) HYDRAULIC RESERVOIR ADAPTER W/ PURPLE MALE DISCONNECTS - #961PLM

C.



## DRUM ADAPTER KITS

Drum Adapter Kits allow breathers to be installed on any storage tank or drum; there's never been a cleaner, more effective way to store, filter and pump lubricants from a drum. Unique design ensures all fluid handling is managed through one adapter. Anodized aluminum adapters have colorized quick connects for pumping oil in and out of drum. Single-port access to the oil reduces contamination as drum remains closed. Off-line filtration units easily connect to adapter without ever disrupting the performance of the breather.

SHOWN: (C.) DRUM ADAPTER W/ RED MALE DISCONNECTS - #960RDM

**OilSafeSystem.com**

a division of:

**Oak Hill**  
BRANDS CORP

**SALES@OILSAFESYSTEM.COM**  
**1-630-922-5009**

Always research and consult when setting up a facility. All information present is based on data available at the time of printing, and is subject to change without notice.

Items at OilSafeSystem.com are sold by Oak Hill Brands Corp. — an authorized OilSafe distributor. All product names, logos, and brands are property of their respective owners.

v2306