

Air Sentry® Air Breathers

Contamination Control Breathers

Desiccating Air Breathers

THE OIL SAFE PROFESSIONAL LUBRICATION SYSTEM IS THE LUBRICANT STORAGE SYSTEM THAT MAKES PLANT AND MACHINERY LUBRICATION EASIER, FASTER AND CLEANER.



BENEFITS

Reduce Contamination

In any reservoir containing fluids or semi-solids, air is breathed in and out as the fluid level changes or as thermal expansion and contraction occurs. Fluid contamination is the primary cause of component wear and lubricant failure in industrial equipment.

Easy to Install

Air Sentry breathers replace the standard breather cap or vent tube on a tank of reservoir. They are easy to install using one of several adapters designed for different applications.

Air Filtration

When the fluid in the system is lowered, or pressure changes occur, air is drawn in through openings under the breather cap. First, air passes through a fine, 2 micron solid particle filter. The air then passes through a diffuser to ensure maximum effectiveness within the silica gel chamber.

Water Removal

Next, water vapor is removed as the air travels through a bed of silica gel - the highest capacity adsorbent available. After being dried, the air passes through a second 2 micron solid particle filter and enters the reservoir clean and dry.

High Efficiency

Air Sentry breathers use a three-stage filtration design to ensure optimum protection by removing water vapor and solid contaminants before they enter the fluid system.

KEY SPECIFICATIONS

Solid Contaminant Filtration Level: 2 micron, 100% efficiency @ 35 CFM

Operating Temperature Range: -20° to 200°F / -28° to 93°C

Silica Gel Adsorption: Up to 40% of its weight of water

Silica Gel Lowest Operational Dew Point: -100°F / -73°C

OVERVIEW

- **Bi-directional Air Flow** - Air entering is cleaned and dried. Expelled air partially regenerates the silica gel and "backflushes" the particulate filter to prolong the life of the breather.
- **Durable Construction** - Air Sentry is manufactured from rugged ABS plastic and impact-modified Plexiglas.
- **Water Vapor Adsorbent** - The silica gel used in Air Sentry breathers is chemically inert, non-corrosive, and conforms to all regulated toxicity standards in the U.S. and other countries. Microscopic pores allow the silica gel to adsorb up to 40% of its own weight.
- **Color Indicator** - When maximum adsorption is reached, the silica gel turns from gold to dark green to indicate that replacement of the breather is required.
- **Activated Carbon** - As air is expelled from the tank, it passes through activated carbon which remove oil vapors, fumes, and odors.
- **Safety Sealed** - Seals keep moisture from entering the units until they are placed in service. They are easily removed without tools or sharp instruments.



PROACTIVE LUBRICATION MANAGEMENT

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PRODUCTS

Z-Series

Air Sentry® Mini Desiccating Breathers are designed for applications where space is limited and airflow requirements are minimal. Applications include gearboxes and small hydraulic reservoirs.



Z-134

Height:
3.25 in / 8.3 cm
Diameter:
3.25 in / 8.3 cm
Nominal Air Flow Rate:
10 CMF (285 L/min)



Z-133

Height:
2.0 in / 5.1 cm
Diameter:
3.25 in / 8.3 cm
Nominal Air Flow Rate:
10 CMF (285 L/min)



Z-132

Height:
3.25 in / 8.3 cm
Diameter:
2.0 in / 5.1 cm
Nominal Air Flow Rate:
10 CMF (285 L/min)



Z-131

Height:
2.0 in / 5.1 cm
Diameter:
2.0 in / 5.1 cm
Nominal Air Flow Rate:
10 CMF (285 L/min)

D-Series

Air Sentry® Disposable Desiccating Breathers designed for most hydraulic tanks, reservoirs, transformers and gearboxes. They easily replace standard breather caps or vent systems.



D-102

Height:
9.25 in / 23.7 cm
Diameter:
5 in / 12.8 cm
Weight:
3.3 lb / 1.5 kg
Maximum H2O capacity:
0.9 lb / 0.5 kg
Nominal Air Flow Rate:
35 CMF (990 L/min)



D-101

Height:
6.25 in / 16.0 cm
Diameter:
5 in / 12.8 cm
Weight:
1.9 lb / 0.9 kg
Maximum H2O capacity:
0.4 lb / 0.2 kg
Nominal Air Flow Rate:
35 CMF (990 L/min)



D-100

Height:
4.75 in / 12.2 cm
Diameter:
5 in / 12.8 cm
Weight:
1.3 lb / 0.6 kg
Maximum H2O capacity:
0.2 lb / 0.1 kg
Nominal Air Flow Rate:
35 CMF (990 L/min)

M-Series

Air Sentry® Steel Desiccating Breathers are manufactured of heavy duty industrial materials, are reusable and are designed to meet the requirements of the most severe environments including mobile equipment applications.



M-107

Height:
10.6 in / 26.9 cm
Diameter:
16.1 in / 40.9 cm
Thread Size:
3" MNPT
Nominal Air Flow Rate:
300 CFM (8485 L/min)



M-105

Height:
9.8 in / 24.9 cm
Diameter:
10.3 in / 26.2 cm
Thread Size:
1" MNPT
Nominal Air Flow Rate:
35 CFM (990 L/min)



M-103

Height:
4.3 in / 10.9 cm
Diameter:
10.3 in / 26.2 cm
Thread Size:
1" MNPT
Nominal Air Flow Rate:
35 CFM (990 L/min)



PROACTIVE LUBRICATION MANAGEMENT

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