



Contamination Control Breathers

for

Enclosed Fluid Systems



Remove all intake seal prior to installation.



The Problem...

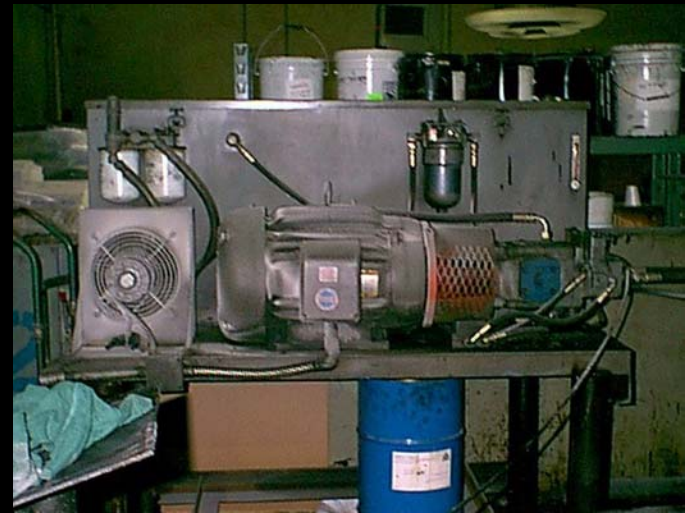
Harmful Contaminants

Component Wear

Fluid Degradation

Equipment Failure

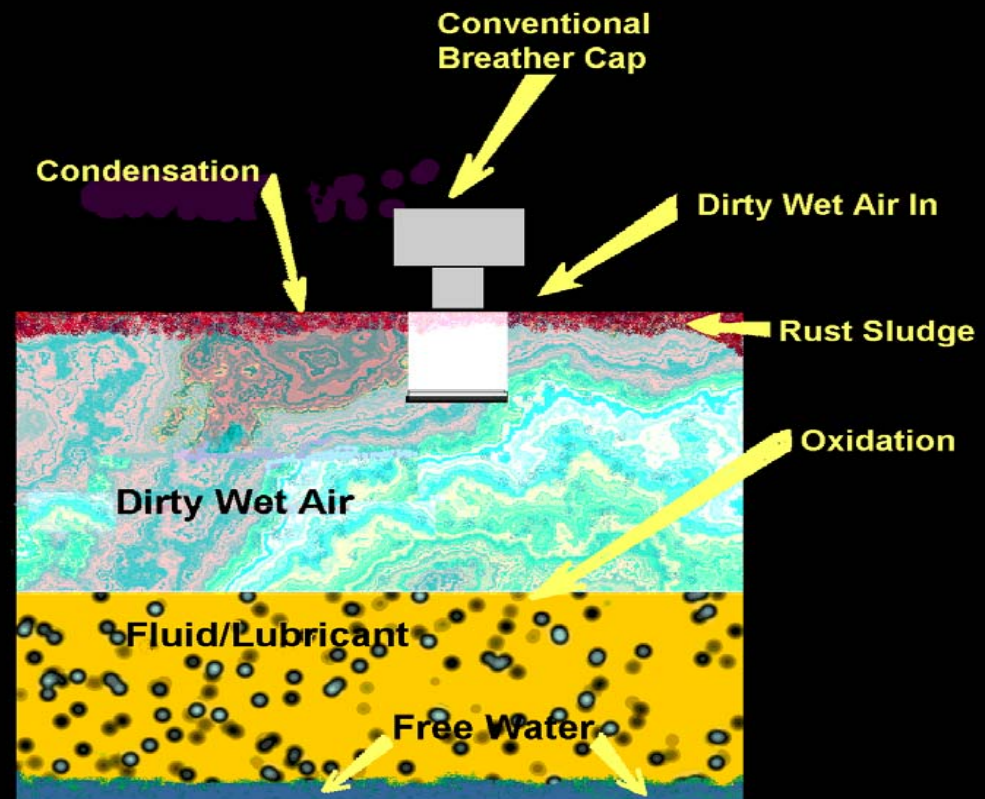
Rust and Oxidation





Without Air Sentry®

- Condensation
- Rust
- Oxidation
- Particulates
- Sludge
- Corrosion





The Solution...

Remove Water Vapor

Remove Fumes and Odors

Improve Performance

Reduce Maintenance

Filter Particulates





The Design...

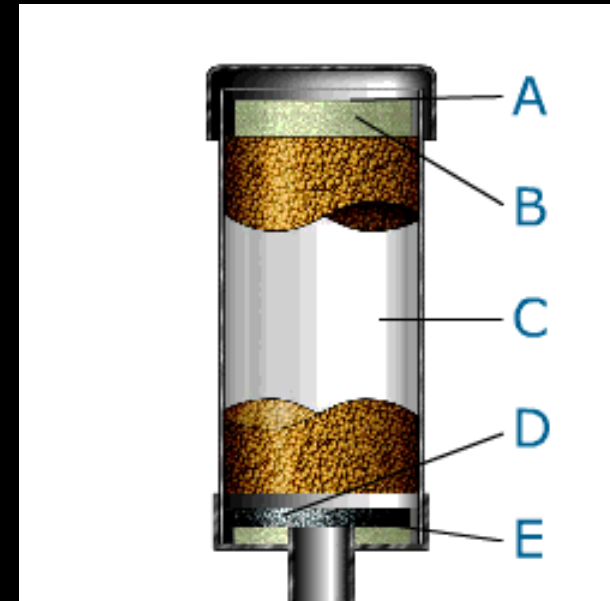
Bi-Directional Airflow

Durable Construction

Triple Filter System

Color Indicator

Safety Sealed





The Results...

- Longer Fluid Life**
- Reduced Contaminants**
- Longer Service Life**
- Reduced Downtime**





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

Model	Height (in)	Diameter (in)
D-100	3.5	5
D-101	5	5
D-102	8	5
D-108	10	5



Model D-102 Shown



The Airflow Workhorse of the Air Sentry® line, D-108 Breathers are designed for applications with airflow requirements of up to 100 cfm (equivalent of 750 gallons per minute of fluid volume change).

Model	Height (in)	Diameter (in)	Thread Size
D-108	10	5	2" MNPT



The Mini Breather line was designed for applications where space is limited, or airflow is minimal (10 cfm or less). Applications include gearboxes and small hydraulic reservoirs.

Model	Height (in)	Diameter (in)
Z-131	2	2
Z-132	3.25	2
Z-133	2	3.25
Z-134	3.25	3.25



**Models Z-131, Z-132, Z-133 and Z-134
Shown Above**

Steel Breathers were designed for the most severe environments and are made of heavy duty industrial materials. The breathers are rechargeable – the silica gel bag filter is replaced by removing the hood. The 2-micron particle filter can be washed and reused.

Model	Height (in)	Diameter (in)	Thread Size
M-103	4.3	10.3	1" MNPT
M-104	4.3	10.3	2" MNPT
M-105	9.8	10.3	1" MNPT
M-106	9.8	10.3	2" MNPT
M-107	10.6	16.1	3" MNPT



M-107 Shown Above

R-Series breathers were designed to withstand continuous vibration on railroad equipment. Since their introduction, they have gained acceptance in other industries where vibration is a concern.

Model	Height (in)	Diameter (in)	Thread Size
R-100	5	5	1" MNPT
R-101	6.5	5	1" MNPT
R-102	9.5	5	1" MNPT
R-111	5.5	5	1 1/8"-16 Female
R-123	12	5	2" MNPT



Model R-102 shown above

Typical Industries and Applications

Aluminum Extrusion, Forging and Rolling Mills

- Hydraulic Systems
- Gear Reducers
- Storage tanks

Appliance Manufacturing

- Hydraulic Presses
- Gear Reducers
- Air Systems
- Robotics

Aerospace

- Vacuum Systems
- Air exchange and control systems

Typical Industries and Applications

Chemical & Petrochemical

- Process systems
- Lube Oil degassing and conditioning
- Turbines
- Storage Tanks
- Gear Reducers
- Transport Tanks

Food Processing

- Hydraulic systems
- Gear Reducers
- Vacuum Pump Systems



Typical Industries and Applications

Pulp and Paper

- Gear reducers
- Hydraulic systems
- Turbine Oil systems
- Calander stack bearing oil systems

Steel Mills & Foundries

- Hydraulic systems
- Gear Reducers
- Rolling Oil systems
- Storage tanks





Seventy-five percent of all hydraulic system failures are caused by contaminated fluid. Most of these contaminants enter the fluid through the standard breather cap. Keep dirt and moisture OUT of your fluids. Extend your fluid life. Reduce your maintenance costs.



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