BREATHERS

Extended Series

High airflow, long-lasting desiccant breathers with check-valve technology ideal for tank farms and large applications.

APPLICATIONS

• Storage Tanks
• Wind Turbines
• Large Gearboxes
• Remote Applications
Overview

Extended Series Breathers: Typical Industries

- Wind Energy
- Storage
- Pulp & Paper
- Mining
- Aviation
- Manufacturing
- Petrochemical

How It Works:
As wet, contaminated air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulate, and the color-indicating silica gel extracts moisture. When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere.

Additionally, the breather is outfitted with a resilient nylon standpipe and polypropylene oil mist reducer to allow oil mist to coalesce and drain back into the reservoir, rather than compromising the desiccant. Six high-quality umbrella check-valves are located underneath the unit to isolate equipment from ambient conditions, prolonging breather life and protecting system integrity.

By the Numbers:

1–Six Check-Valves
High-quality umbrella check-valves that won’t clog or stick are located underneath the unit for added protection from washdown environments. Check-valves isolate equipment from ambient conditions prolonging breather life, and protecting system integrity.

2–Integrated Nylon Standpipe
The integrated standpipe provides excellent vibration resistance and dissipates impact throughout the unit, eliminating weak points. It also allows even airflow distribution throughout the unit, preventing inaccurate readings of desiccant saturation.

3–Honeycomb Technology Oil Mist Reducer
The oil mist reducer is situated inside the standpipe, made from polypropylene for maximum chemical compatibility. Mimicking nature’s intricate honeycomb design, this feature allows oil mist to coalesce and drain back into the reservoir, rather than compromising the desiccant.

4–Resilient Polycarbonate Body
Shock-absorbing, clear casing provides reliable service, easy visual maintenance, and UV resistance.

5–Filter Element
Polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.

6–Foam Pad
Foam filter captures any oil mist and disperses incoming air evenly over filtration and drying areas.

7–Water Vapor Adsorbent
Silica gel adsorbs water from incoming air and can hold up to 40% of its weight. Condition is indicated by change of color from blue to light pink.

8–Secondary Filter Element
Second polyester filter element protects against migration of desiccant dust, providing maximum efficiency.

9–Threaded Mounting
Internal threads provide durability and stability and can be used with one of several adapters.
Specifications

Materials & Components:
Filter Media: Polyurethane, polyester
Hydrophilic Agent: Silica gel
All Other Materials: Polycarbonate, nylon, polypropylene, PVC, Buna-N, silicon, EPDM

Filter Efficiency:
(3 μ absolute (β3≥200)

Recommended Temperature Range:
-20°F to 200°F
-29°C to 93°C

Chemical Compatibility:
Recommended:
All Gear Oil
Most Hydraulic Fluid
Mineral & Synthetic Oil

Not Recommended:
Hydrogen Sulfide
Sulfuric Acid
Highly Alkaline Cleaners

Measurements:

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Airflow at 1psid</th>
<th>Recommended Max. Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gearbox/Storage Tank</td>
<td>Hydraulic Reservoir</td>
<td></td>
</tr>
<tr>
<td>DC-EX-1</td>
<td>27cfm/765lpm</td>
<td>400gal/1514L</td>
</tr>
<tr>
<td>DC-EX-2</td>
<td>26cfm/736lpm</td>
<td>600gal/2271L</td>
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<tr>
<td>DC-EX-3</td>
<td>25cfm/708lpm</td>
<td>800gal/3028L</td>
</tr>
<tr>
<td>DC-EX-4</td>
<td>24cfm/680lpm</td>
<td>1000gal/3785L</td>
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</tbody>
</table>

Size Maximum Water Retention
DC-EX-1 7.7fl. oz./228ml
DC-EX-2 14.1fl. oz./417ml
DC-EX-3 20.5fl. oz./606ml
DC-EX-4 27.0fl. oz./798ml

Breathers Height (A)
DC-EX-1 4.7in/119mm
DC-EX-2 6.4in/163mm
DC-EX-3 8.2in/208mm
DC-EX-4 10.0in/254mm