Xclude™ Contamination Exclusion

Xclude™ High Humidity Check Valve Breather

Ideal solution to protect against moisture and particulate contamination in low-flow applications with intermittent operations

Typical Industries
- Wind Energy
- Pulp & paper
- Aviation
- Storage
- Manufacturing
- Petrochemical

Applications
- Gearboxes
- Low-flow
- High-humidity
- Washdown
Overview

Xclude™ High Humidity Check Valve Breather

By the Numbers

1–Domed Cap
Allow for better washdown runoff.

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

3–External Ribs on Shell
Create greater durability and grip when installing or replacing breather.

4–Integrated Drip Ring
Prevents water from entering vent holes.

5–Threaded Mounting
Easily replaces standard filler/breather cap with multi-fit connection or one of several adapters.

6–Larger, High-Capacity Check Valves
Allow for increased airflow at low cracking pressure.

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

8–Enhanced Seal
Eliminates potential for airflow bypass.

How It Works

This breather unit replaces the standard dust cap or OEM breather cap on equipment. Check-valves on the bottom of the unit isolate the system until equipment needs to breathe. As air is drawn into equipment through the breather, the layered filter elements remove particulates while the desiccant beads strip harmful moisture.

While in service or during shutdown, the desiccant beads attract moisture from inside the equipment reservoir, actively drying the equipment.
Materials & Components
- Filter housing: Polycarbonate, nylon, polypropylene, Buna-N, silicone
- Filter media: Polyurethane, polyester
- Hydrophilic media: Silica gel

Filter Efficiency
- 3μ absolute (β3≥200)

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

Chemical Compatibility
- Compatible with all mineral oils, most synthetic oils and diesel.
- Contact your local consultant for chemical compatibility inquiries.

Certificates and Approvals
- Upon request

Breather Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Amount of Desiccant (lb / kg)</th>
<th>Adsorption Capacity (fl oz / ml)</th>
<th>Air Flow Rate (cfm @ 1 Psid)</th>
<th>Max Suction &amp; Return Rate (gpm / lpm)</th>
<th>Gearbox &amp; Storage Tank Reservoir Size (gallons / liters)</th>
<th>Hydrazic Reservoir Size (gallons / liters)</th>
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<tbody>
<tr>
<td>LEXHHCV375-13</td>
<td>.1 / .06</td>
<td>.8 / 23</td>
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<td>15 / 57</td>
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<td>LEXHHCV1-66</td>
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<td>82 / 311</td>
<td>350 / 1,325</td>
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<td>LEXHHCV1-188</td>
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<td>12 / 359</td>
<td>10</td>
<td>75 / 283</td>
<td>75 / 283</td>
<td>500 / 1,893</td>
</tr>
</tbody>
</table>

Note: These are general guidelines for sizing; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances require thorough analysis. Please contact LE for assistance in breather sizing for your application.
### Additional Specs

#### Breather Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Style</th>
<th>Thread Size</th>
<th>A (inch / mm)</th>
<th>B (inch / mm)</th>
<th>C (inch / mm)</th>
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<tbody>
<tr>
<td>LEXHHCV375-13</td>
<td>miniature</td>
<td>3/8&quot; with O-Ring Seal, Compatible with: 3/8&quot; NPT; 3/8&quot; BSPT; 3/8&quot; BSPP</td>
<td>3.87 / 98</td>
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<td>2.52 / 64</td>
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<td></td>
<td>5.4 / 136</td>
<td>4.9 / 125</td>
<td>2.52 / 64</td>
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<tr>
<td>LEXHHCV1-66</td>
<td>standard</td>
<td>1&quot; with O-Ring Seal, Compatible with: 1&quot; NPT; 1&quot; NPSM; 1&quot; BSPT; 1&quot; BSPP</td>
<td>6.0 / 152</td>
<td>5.33 / 135</td>
<td>4.1 / 104</td>
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<tr>
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<td></td>
<td>8.0 / 203</td>
<td>7.33 / 186</td>
<td>4.1 / 104</td>
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<tr>
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<td></td>
<td>10.0 / 254</td>
<td>9.33 / 237</td>
<td>4.1 / 104</td>
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