MOISTURE MEETS ITS MATCH

Donaldson T.R.A.P.™ breathers collect and expel the moisture out of reservoirs, which means you won’t need to change the breather due to water saturation ... unlike desiccant filters that require frequent change-out.

TRAP water and particulate before it gets in without restricting air flow – letting your hydraulic and lube oil reservoirs breathe easy.
Superior Moisture Blocking
Advanced Particulate Filtration and Oil Mist Control

Thermally Reactive Advanced Protection (T.R.A.P.™)

Water has a way of sneaking into your hydraulic circuits – unless you have a Donaldson T.R.A.P. breather standing guard over your system.

Moisture is blocked by Donaldson’s T.R.A.P. breather. In fact, it removes moisture at relative humidity levels as low as 15%. T.R.A.P. filtration technology reacts instantly to changes in thermal conditions – blocking moisture.

T.R.A.P. breathers strip moisture vapor from intake air and releases the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity. T.R.A.P. breathers expel the moisture back out, eliminating the need to change the breather due to water saturation … unlike desiccant filters that require frequent change-out. T.R.A.P. breathers not only protect against moisture but also provide advanced particulate filtration.

TRAP water before it gets in without restricting air flow, letting your hydraulic and lube oil reservoirs BREATHE.

<table>
<thead>
<tr>
<th>Compare</th>
<th>T.R.A.P. Technology</th>
<th>Desiccant Filters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Life</td>
<td>Extended life (expels moisture and refreshes its holding capacity on each cycle).</td>
<td>Shorter life (due to saturation of filtering material), leading to frequent replacement.</td>
</tr>
<tr>
<td>Effectiveness</td>
<td>Reacts instantly to conditions in the hydraulic circuit, creating a moisture barrier without impeding airflow.</td>
<td>Requires extended exposure to the air stream before absorption begins. Restricts airflow.</td>
</tr>
<tr>
<td>Maintenance costs</td>
<td>Reduced service hours.</td>
<td>Increased service hours.</td>
</tr>
<tr>
<td>Technology</td>
<td>Thermally reactive barrier that removes moisture at relative humidity levels as low as 15%.</td>
<td>Absorbent filtering material that loses holding capacity with each cycle.</td>
</tr>
<tr>
<td>Filtration</td>
<td>Superior moisture blocking and particulate filtration, down to 3 microns at 97% with up to 7x the media area.</td>
<td>Less effective moisture blocking and particulate filtration with smaller filtration area.</td>
</tr>
<tr>
<td>Oil Mist</td>
<td>Built-in coalescing stage.</td>
<td>No oil mist control.</td>
</tr>
<tr>
<td>Other Advantages</td>
<td>Will not freeze in winter.</td>
<td>Subject to freezing in winter conditions.</td>
</tr>
</tbody>
</table>
Moisture Meets its Match
See How it Works

T.R.A.P.™ breathers from Donaldson are the only breathers on the market that literally strip moisture vapor from intake air and expel the moisture back to the atmosphere on the outflow cycle. The filter continuously regenerates its water holding capacity!

1. The circuit “breathes in” air containing moisture vapor.

2. The T.R.A.P. breather strips moisture and particulate from the incoming air, allowing only clean, dry air to enter the circuit.

3. During the “exhalation” cycle, The T.R.A.P. breather allows unrestricted airflow outward.

4. The outflow of dry air picks up the moisture collected by the T.R.A.P. Breather during intake, and “blows it back out” – fully regenerating the T.R.A.P. breather’s water-holding capacity.
Extended Range
T.R.A.P.™ Breather Technology

Donaldson T.R.A.P. breathers are available in a variety of configurations:

• ABS plastic, nylon or epoxy-coated steel construction
• NPT, BSP, UN straight thread or bayonet connections
• With and without electronic indicator options to fit a broad range of applications

T.R.A.P. Breather Offering

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Construction</th>
<th>Connection</th>
<th>Max Airflow (cfm/lpm)</th>
<th>Indicator</th>
<th>Oil Splash / Mist Containment</th>
</tr>
</thead>
<tbody>
<tr>
<td>P566151</td>
<td>ABS</td>
<td>1&quot; NPT</td>
<td>45 / 1274</td>
<td>Optional</td>
<td>Yes</td>
</tr>
<tr>
<td>P566156</td>
<td>ABS</td>
<td>Bayonet using adapter</td>
<td>45 / 1274</td>
<td>Mechanical</td>
<td>No</td>
</tr>
<tr>
<td>P564669</td>
<td>ABS</td>
<td>1&quot; NPT</td>
<td>45 / 1274</td>
<td>Electronic</td>
<td>Yes</td>
</tr>
<tr>
<td>P565616</td>
<td>ABS</td>
<td>Bayonet using adapter</td>
<td>45 / 1274</td>
<td>Electronic</td>
<td>Yes</td>
</tr>
<tr>
<td>P565857</td>
<td>Epoxy Coated Steel</td>
<td>3/4&quot; NPT</td>
<td>25 / 708</td>
<td>Optional</td>
<td>Yes</td>
</tr>
<tr>
<td>P565858</td>
<td>Epoxy Coated Steel</td>
<td>Bayonet</td>
<td>25 / 708</td>
<td>Mechanical</td>
<td>Yes</td>
</tr>
<tr>
<td>P566037</td>
<td>Epoxy Coated Steel</td>
<td>3/4&quot; BSP</td>
<td>25 / 708</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>P566174</td>
<td>Glass-filled Nylon</td>
<td>9/16&quot;-18UN</td>
<td>3 / 85</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>P567390</td>
<td>Glass-filled Nylon</td>
<td>3/8&quot; NPT</td>
<td>3 / 85</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>P567392</td>
<td>Glass-filled Nylon</td>
<td>1/4&quot; NPT</td>
<td>3 / 85</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

T.R.A.P. Breather Sizing

<table>
<thead>
<tr>
<th>Model</th>
<th>Hydraulic Systems (gal/l)</th>
<th>In-plant lube (gal/l)</th>
<th>Outside (gal/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>100/375</td>
<td>500/1875</td>
<td>250/938</td>
</tr>
<tr>
<td>Metal</td>
<td>40/150</td>
<td>200/750</td>
<td>100/375</td>
</tr>
<tr>
<td>Mini</td>
<td>4/15</td>
<td>20/75</td>
<td>10/38</td>
</tr>
</tbody>
</table>
## T.R.A.P. Breather Specifications

### Standard
**P565616**
Available with or without
*electronic indicator*

**P566151**
(no indicator version)

*Top View*

![Top View of Standard Breather](image)

### Metal
**P565858**

*Top View*

![Top View of Metal Breather](image)

### Mini
**P566174**

**P567390**

**P567392**

*Top View*

![Top View of Mini Breather](image)

**Mechanical Indicator Kit P566168**
Suitable for use with **P566151** and **P565857**
*Requires additional 3/4” x 1” reducer bushing (supplied by customer)*

### Bayonet Style Filler Basket/Flange Kits

*Use with any bayonet style T.R.A.P. Breather*
**P566321**

**P563874**

**P563453**

*Top View*

![Top View of Bayonet Style Filler Basket/Flange Kits](image)
T.R.A.P.™ Breather Technology
Eliminates Moisture and Particulate from Reservoirs

Technical Features

Particulate Filter
- Highly efficient pleated particulate filter stops particle sizes down to 3 μm at 97%.

Service Interval
- Optional mechanical indicator available
- Models with no indicator: change breather every 6 months.

Operating Temperature Range
- -40°F to +200°F / -40°C to 93°C

Electronic Indicator
- Actuated by pressure differential, flashes red to indicate change out is needed. Indicator setting, 1 PSID (6.9kPa).
- Indicator power source: 3V lithium battery CR2032.

Mechanical Indicator Kit
- Install kit between reservoir and T.R.A.P. breather. Lock-up style indicator with manual reset. Highly visible, bright red band shows when restriction limit is reached. Indicator setting 20" H₂O (5.0 kPa).

Caution!
In environments with combustible dusts or vapors, use non-electrical models only.

Low Restriction to Air Flow

Apply T.R.A.P. based on fluid exchange rate, not reservoir size.