Titan Desiccant Breathers
THE TOUGHEST DESICCANT BREATHER ON THE MARKET

The Titan series operate by the same efficient procedure as the other air conditioners within the RMF Systems range. The difference is the housing of the Titan Desiccant Breather, which is made out of the strongest polymer to optimally function under the most harsh environments. Due to the integrated inner core the desiccant breather is also lighter.

**Highest efficiency in a single process**
The Titan Desiccant Breather reduces contamination of your oils by removing solid particles (down to 3µ) and moisture from the air in a single process. This process prevents contamination and oxidation of the oil and components, resulting in a prolonged service life of the oil and equipment and less down time. Reducing the total cost of ownership for your equipment.

**Integrated anti-splash device**
The Titan Desiccant Breather comes standard with an integrated anti-splash device to eliminate oil from the equipment reservoir reaching the air filter and ZR Gel. Optional check valves can be added. These valves are fitted in opposing directions, opening whilst in- or exhaling.

This prevents atmospheric contact between the air and the ZR Gel under static conditions, increasing the lifetime of the drying agent.

**Serviceable and non-toxic**
All desiccant breathers are completely serviceable, RMF Systems can provide you with spare filter elements or refills of the non-toxic and non-carcinogenic ZR gel granules.

**Easy mounting**
The desiccant breathers are compatible with almost all hydraulic and lubricating fluids applications, because of the wide variety of mounting plates.

**Benefits**

1. Reduces cost of ownership
2. Reduces oxidation of the oil and bearing surfaces
3. Prolongs the life of the equipment and oil (additive package)
4. Minimizes equipment downtime
# Titan Desiccant Breathers

## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>93 SERIES</th>
<th>96 SERIES</th>
<th>121 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total weight</td>
<td>± 0,9 kg</td>
<td>± 1,1 kg</td>
<td>± 2 kg</td>
</tr>
<tr>
<td>Dimensions D x H</td>
<td>± 100 x 183 mm</td>
<td>± 100 x 243 mm</td>
<td>± 130 x 267 mm</td>
</tr>
<tr>
<td>ZR gel volume</td>
<td>300 cc</td>
<td>600 cc</td>
<td>1,000 cc</td>
</tr>
<tr>
<td>Water adsorption</td>
<td>86 gram</td>
<td>172 gram</td>
<td>288 gram</td>
</tr>
<tr>
<td>Maximum air flow without check valves (0,01 bar)</td>
<td>700 l/min</td>
<td>700 l/min</td>
<td>1,500 l/min</td>
</tr>
<tr>
<td>Maximum air flow with check valves (0,01 bar)</td>
<td>300 l/min</td>
<td>300 l/min</td>
<td>400 l/min</td>
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<tr>
<td>Adsorption material</td>
<td>Non-toxic &amp; Non-carcinogenic ZR gel 3-6 mm</td>
<td></td>
<td></td>
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<tr>
<td>Operating temperature</td>
<td>- 40 °C + 90 °C</td>
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<td></td>
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<tr>
<td>Housing material</td>
<td>Copolyester</td>
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</tbody>
</table>

### FLUID COMPATIBILITY

| Mineral Oils: H, HL, HLP | OK |
| HEES Synthetical ester | OK |
| Other fluids | Contact RMF Systems |

## Ordering Code

**PRODUCT**

TDB - Titan Desiccant Breather

**DIMENSION**

- 93
- 96
- 121

**Drying Agent**

- R - ZR Gel without check valves
- RV - ZR Gel with check valves

**EXAMPLE:**

TDB96RV - 34B

**Connection**

**TDB93 connections**

- 34B - 3/4" BSPP male
- 1B - 1" BSPP male
- 1N - 1" NPT male

**TDB96 connections**

- 34B - 3/4" BSPP male
- 1B - 1" BSPP male
- 1N - 1" NPT male

**TDB121 connections**

- 1B - 1" BSPP male
- 1N - 1" NPT male
- 114B - 1 1/4" BSPP male
- 114BF - 1 1/4" BSPP female