

# DISPOSABLE DESICCANT BREATHERS

## SIMPLE, DEPENDABLE LUBRICANT PROTECTION



### Disposable Desiccant Breathers

- Resilient polycarbonate plastic body
- Bi-directional, controlled airflow
- Multi-tiered filtration process
- Water vapor adsorbent
- Resilient construction
- Color indicator for easy system monitoring

**Foam Pad**  
Stops oil mist during exhalation and ensures outgoing air is evenly disbursed through the filters and desiccant, providing maximum efficiency through "backflushing."

**Filter Element**  
Second polyester filter element protects against any migration of desiccant.

**Water Vapor Adsorbent**

Silica gel adsorbs water from incoming air. Indicates condition by change of color from blue to pink.

**Filter Element**

Patented polyester filter element removes airborne contamination to 3-micron absolute (74% efficient at .5-micron). Unique loops allow particles to release during system exhalation, helping to increase breather life.

**Air Vents**

Individual air intakes are opened based on the flow requirements of the system. Rated for 20 cfm. (Plugs keep unit inactive until use).

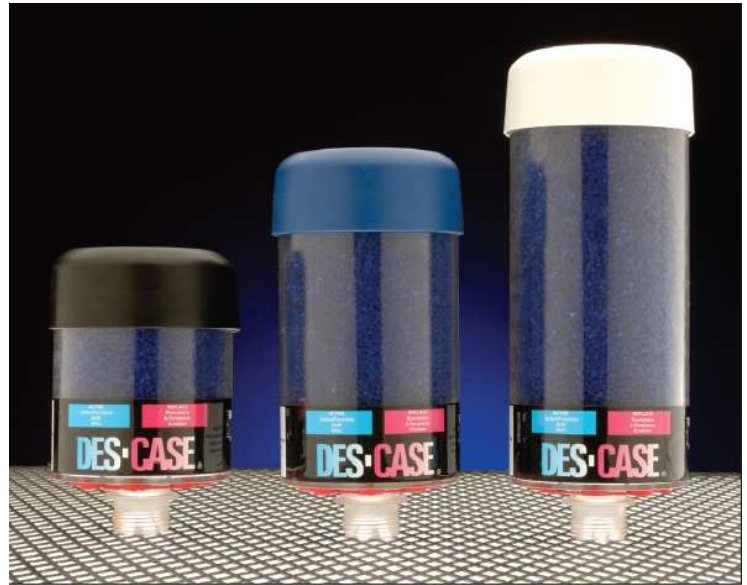
**Resilient Construction**  
Shock-absorbing, clear casing provides reliable service and easy maintenance.

**Foam Pad**

Captures any oil mist and disperses incoming air evenly over filtration and drying areas.

**1 Inch NPT**

Easily replaces standard filler/breather cap with one of two adaptors.



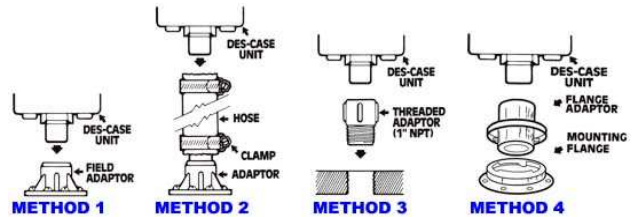
DC-2

DC-3

DC-4

STANDARD DISPOSABLE BREATHERS			
Model #	DC-2	DC-3	DC-4
Unit Size (height diameter, cm)	11,4 x 10,2	16,5 x 10,2	21,6 x 10,2
Filtration Area (cm <sup>2</sup> per filter)	25,4	25,4	25,4
Amount of Silicagel (Kg)	0,45	0,68	0,91
Quantity of Water retains (l)	0,18	0,27	0,36
Quantity of Water stopped (l)	0,65	1,15	1,6
Operating Temp. Range (°C)	-50 to +100	-50 to +100	-50 to +100
Max Flow Rate (l/mn at 70 mb)	600	600	600
Desiccant agent	Silicagel	Silicagel	Silicagel
Filtration (µ absolute)	3	3	3
Connection Size	1" NPT	1" NPT	1" NPT

Part	Material	Temperature Range
Body & Cap	Polycarbonate	-100°C to +120°C
Filter Media	Dacron Polyester	
Foam Pad	Polyurethane Foam	
Desiccant	Silicagel	



	Identification	Connection NTP	Model #
Method 1	Flange Adaptor		DC 12*
Method 3	Thread Adaptor	3/4"	DC 17*
Method 4	Baionet Adaptor		DC 15*

DES-CASE breathers meet the criteria of CE conformity and are designed in accordance with the "Manual of decisions for implementation of the sixth and seventh amendments to directive 67/548/EEC on dangerous substances" established by the European Commission.

DES-CASE breathers are designed to protect lubricated reservoirs like gearboxes, hydraulics, electrical transformers and chemical reservoirs.



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## Application fields for DES-CASE breathers

### River, Sea Side, Canal & Wind Turbine Applications



### Gearboxes, Electrical transformers, Airport and Hydraulics reservoirs



### How to correctly use DES-CASE breathers.

If it is possible, use DES-CASE breathers on hydraulic reservoirs or gearboxes with new or clean & dry lubricant. In that case, you immediately reach the maximum time life of our breathers (After 15 years, our European customers reach 12/14 months before changing our breathers). The DES-CASE breathers will change colour, from blue to pink, from the bottom to the top of the breather. If it changes colour from the top to the bottom, it means that there is a large amount of humidity in the reservoir.

If you use the DES-CASE breather on a polluted lubricant application, the breather will clean your reservoir or gearbox, in that case the capability may be divided by 5 and the time life may be only 2 months or less for the first units. In that case, we advise you to have a look one time per week during the first two months. If the breather reaches 2 months without changing colour, you can expect to reach one year of time life.



On the bottom of the breathers, open only the quantity of air intake really needed:

- For gearboxes or hydraulic systems, where there is only level variation due to the temperature, open only two (2) air intake holes.
- For hydraulic reservoirs with cylinders: open the correct quantity of air intake holes (See here after).

Put out the stand pipe protection blue cap and fit the breathers in the appropriate adaptor.

Air Flow / Débit Luftvolumenstrom Caudal de aire	Geraboxes Réducteurs Getriebe Reductores	Hydraulique pump flow Débit pompe Hydraulik Öldurchflussmenge Caudal bomba hidráulica	Air Vente Holes to open Nombre d'orifices à ouvrir Anzahl der Zu öffnenden Löcher. Tapones de venteo a eliminar	Pressure drop Dp mbars Dp. Caída de Presión
0 to 150 l/mn	<b>Open 2 holes</b>	150 l/mn	2	20 mbars
150 à 300 l/mn	<b>Ouvrir 2 orifices</b>	300 l/mn	4	35 mbars
300 à 450 l/mn	<b>Öffnenden 2 Löcher</b>	450 l/mn	6	40 mbars
450 à 600 l/mn	<b>Retirar 2 tapones</b>	600 l/mn	8	70 mbars

### Maintenance:

When the body of the breather will be pink (or white if you wait too much) replace the breather by a new one.

### Sizing:

DC2	Gear boxes less than 600 liters* or hydraulic reservoirs less than 190 liters*
DC3	Gear boxes less than 2000 liter*s or hydraulic reservoirs less than 800 liters*
DC4	Gear boxes less than 4000 liters* or hydraulic reservoirs less than 2500 liters*
*	Total external volume of the reservoir or gearbox