

# Des-Case® Air Breathers

Simple, Dependable Lubricant Protection

# Desiccating Air Breathers

DES-CASE AIR BREATHERS ARE A COST-EFFECTIVE MEANS OF PROTECTING YOUR CRITICAL ASSETS AND LUBRICANTS FROM CONTAMINANT INGRESSION.



## BENEFITS

### Reduce Contamination

In any reservoir containing fluids or semi-solids, air is breathed in and out as the fluid level changes or as thermal expansion and contraction occurs. Fluid contamination is the primary cause of component wear and lubricant failure in industrial equipment. Des-Case breathers attack the cause of contamination, allowing your equipment and lubricants to run longer and harder.

### Easy to Install & Replace

Des-Case breathers replace the standard breather cap or vent tube on a tank or reservoir. They are easy to install using one of several adapters designed for different applications. The breather is outfitted with a resilient nylon standpipe and a clear polycarbonate body which allows for easy monitoring of the high-contrast silica gel.

### Air Filtration & Water Removal

As wet, dirty 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.

### High Quality Product

From the core standpipe to the tough polycarbonate exterior, every element of Des-Case's disposable standard breather has been designed to stand up to the wide variety of industries and applications taking advantage of Des-Case's contamination control expertise.



## OVERVIEW

- **Resilient Polycarbonate Body** – Shock-absorbing, clear casing provides reliable service and easy maintenance.
- **Water Vapor Adsorbent** – Silica gel absorbs 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 0.5-micron). Unique loops allow particles to release during system exhalation, helping to increase breather life. A second polyester filter element protects against any migration of desiccant dust, providing maximum efficiency through “backflushing”.
- **Foam Pad** – Reduces oil mist that contacts silica gel during exhalation and ensures outgoing air is evenly disbursed through the filters and desiccant.
- **Air Vents** – Individual air intakes are opened based on the flow requirements of the system. Plugs keep unit inactive until use.
- **Threaded Mounting** – Easily replaces standard filler/breather cap with one of several adapters.



PROACTIVE LUBRICATION MANAGEMENT

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## PRODUCTS

### Standard Disposable

**Resilient clear polycarbonate body.** Bi-directional, controlled airflow. Multi-tiered filtration process. Water vapor adsorbent. 3-micron absolute particulate filter elements. Color indicator for easy system monitoring.



#### DC-BB

Height 3"  
Diameter 2.75"  
Capacity 12 ml  
Flow Rate 3 cfm  
Connection 3/8" NPT



#### DC-1

Height 5"  
Diameter 2.75"  
Capacity 24 ml  
Flow Rate 1 cfm  
Connection 3/8" NPT



#### DC-2

Height 6.125"  
Diameter 4"  
Capacity 0.13 L  
Flow Rate 16 cfm  
Connection 1" NPT



#### DC-3

Height 8.125"  
Diameter 4"  
Capacity 0.23 L  
Flow Rate 16 cfm  
Connection 1" NPT



#### DC-4

Height 10.125"  
Diameter 4"  
Capacity 0.35 L  
Flow Rate 16 cfm  
Connection 1" NPT

#### All Units

Filter Media Polyester  
Contents Silica Gel  
Operating Temp Range  
-20°F to 200°F

### Hybrid Breathers

**Ideal for gearboxes, washdowns, and high humidity areas.** Desiccant, particulate filtration ensures incoming air is dry and clean. Expansion chamber system isolates lubes from all levels of ambient humidity. Check valves ensure no excess pressure / vacuum builds.



#### DC-VG-1

Height 5"  
Diameter 4.1"  
Capacity 30 ml  
Flow Rate 0.9 cfm  
Connection 3/8" NPT



#### DC-HG-8

Height 9.75"  
Diameter 4.1"  
Capacity 120 ml  
Flow Rate 2.5 cfm  
Connection 1" NPT

#### All Units

Filter Media Polyester  
Contents Silica Gel  
Operating Temp Range  
-20°F to 200°F

### Disposable Steel Breathers

**Rugged housing ideal for harsh environments, high temperatures, and mobile and nautical applications.** Color indicator window for easy system monitoring. Optional flapper valve optimizes breather longevity.



#### DC-DS-6

Height 6.5"  
Diameter 5"  
Capacity 266 ml  
Flow Rate 20 cfm  
Operating Temp Range  
-20°F to 250°F

### Non-Desiccant Breathers

**Creates an impenetrable barrier** against water droplets. Pleated element provides a large surface area and is 99.5% efficient in blocking particles 1µ and larger. Coalesces oil mist, preventing contamination of working environment (DC-SB-35 only). Visual vacuum indicator option actuates when maximum restriction is reached. Rugged ABS plastic housing. Easy installation requires hand tighten only.



#### DC-SB-25\*

Height 5"  
Diameter 5"  
Capacity n/a  
Flow Rate 40 cfm  
Connection 1" NPT



#### DC-SB-35\*

Height 5"  
Diameter 5"  
Capacity n/a  
Flow Rate 40 cfm  
Connection 1" NPT

#### All Units

Filter Media ePTFE  
Filtration Area 180 sq-in  
Filtration 1µ (absolute)  
Operating Temp Range  
-20°F to 200°F

**NOTE:** \* Pipe nipple and vacuum indicator sold separately as DC-SB-VI

**A complete range of connection adapters are available for all Des-Case disposable breathers.**



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