BREATHERS

Standard

Basic protection from moisture and particulate contamination in lubricant and equipment

APPLICATIONS

- Totes
- Transformers
- Storage Tanks
- Hydraulics

INTRIBO

DES-CASE®

Overview

Standard Breathers:
Typical Industries

- Power Generation
- Mining
- Aviation
- Storage
- Manufacturing
- Petrochemical

How It Works:
This breather unit replaces the standard dust cap or OEM breather cap on equipment. As air is drawn into equipment through the breather, the layered filter elements remove particulate while the desiccant beads strip harmful moisture.

While in service or during shut-down, the desiccant beads attract moisture from inside the equipment reservoir, actively drying the equipment.

By the Numbers:

1–Domed Cap
A domed cap allows for better washdown runoff

2–Integrated Nylon Standpipe
The integrated 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
External ribs on shell to create greater durability and grip when installing or replacing breather

4–Integrated Drip Ring
An integrated drip ring keeps shedding water from entering the vent holes

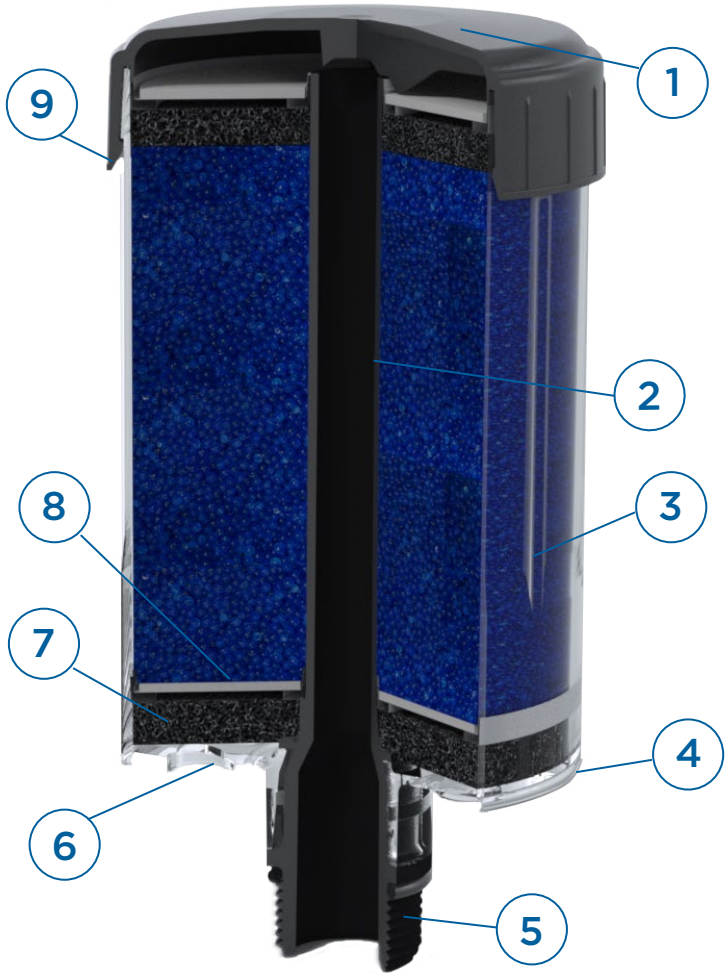
5–Threaded Mounting
Easily replaces standard filler/breather cap with multi-fit connection or one of several adapters.

6–Air Vents
Individual air intakes are opened based on flow requirements of the system. Plugs protect unit during shipping and storage.

7–Foam Pad
Foam filter captures any oil mist and disperses incoming air evenly over filtration and drying areas.

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

9–Enhanced Seal
An enhanced seal eliminates potential for airflow bypass



Specifications

Materials & Components:

Housing: Polycarbonate, Nylon 6/6 30% Glass Filled, Polypropylene
Seals (DC-BB, DC-1): Buna-N, EPDM, PVC
Seals (DC-2, DC-3, DC-4): Buna-N, PVC
Filter Media: Polyurethane, Polyester
Hydrophilic Media: Silica gel

Filter Efficiency:

(3μ absolute ($ß_3$≥200)

Recommended Temperature Range:

-20˚F to 200˚F
-29˚C to 93˚C

Chemical Compatibility:

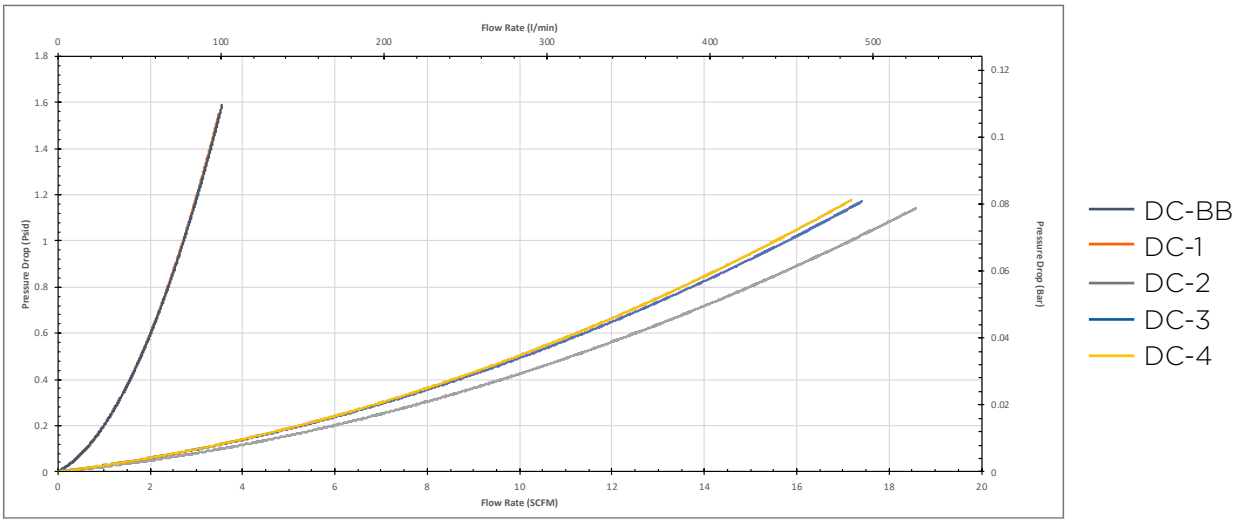
Compatible with all mineral oils, most synthetic oils and diesel (Contact Des-Case technical support for chemical compatibility inquiries)

Certificates and Approvals:

Upon request

	DC-BB	DC-1	DC-2	DC-3	DC-4
Amount of Desiccant:	.1 lbs / .1 kg	.3 lbs / .1 kg	.8 lbs / .4 kg	1.4 lbs / .6 kg	2 lbs / .9 kg
Adsorption Capacity:	.8 fl oz / 23 ml	1.7 fl oz / 50 ml	4.9 fl oz / 146 ml	8.7 fl oz / 257 ml	12.4 fl oz / 365 ml
Air Flow Rate:	5 cfm @ 1 Psid	4 cfm @ 1 Psid	16 cfm @ 1 Psid	16 cfm @ 1 Psid	16 cfm @ 1 Psid
Flow Rate:	34 gpm / 129 lpm	31 gpm / 118 lpm	120 gpm / 453 lpm	120 gpm / 453 lpm	120 gpm / 453 lpm

Sizing / Flow Rate

Model	Suction / Return Rate (gpm / lpm)	Gearbox / Storage Tank Reservoir Size (Gallons / Liters)	Hydraulic Reservoir Size (Gallons / Liters)
DC-BB	34 / 129	15 / 57	2 / 8
DC-1	31 / 118	35 / 132	5 / 19
DC-2	120 / 453	200 / 757	60 / 227
DC-3	120 / 453	350 / 1325	100 / 379
DC-4	120 / 453	500 / 1893	200 / 757

Please Note: This is intended as a general guideline for sizing only; 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 typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.