

## PRODUCT DATA SHEET

# Disposable Desiccant Breather with check-valve



### Description

Lubrigard disposable breathers are designed to protect low-pressure systems, ensuring that only clean, dry air enters the reservoir headspace. A key feature of these breathers is their innovative check-valve configuration, which enhances system protection and efficiency

### Functionality

Lubrigard disposable breather units serve as direct replacements for standard OEM breather caps. As air flows through the breather, the layered filter elements trap particulates, while desiccant beads prevent moisture from entering the asset's headspace. These desiccant beads remain active at all times, continuously absorbing internal moisture both during operation and while the asset is idle. Any positive pressure is vented through the breather's check-valve to the atmosphere, ensuring a longer breather service life.

### General applications

- Conveyor gearboxes
- Hydraulic power packs
- Lube and fuel storage

### Product specifications

#### Filter efficiency:

- (3µm absolute (B3≥200))

#### Temperature range:

- - 20°C to 90°C

#### Chemical compatibility:

- Compatible with all mineral oils, most synthetic oils and diesel

	D-LBG-CV-BB	D-LBG-CV-01	D-LBG-CV-02	D-LBG-CV-03	D-LBG-CV-04
Amount of desiccant	0,06 Kg	0,1 Kg	0,4 Kg	0,6 Kg	0,9Kg
Absorption capacity	23 ml	50 ml	50 ml	253 ml	359 ml





## Breather sizing

Series	Suction / return rates (litres per min)	Gearboxes / storage (litres)	Hydraulic reservoir (litres)
D-LBG-CV-BB	41	57	8
D-LBG-CV-01	41	132	19
D-LBG-CV-02	340	767	227
D-LBG-CV-03	311	1325	379
D-LBG-CV-04	283	1893	757

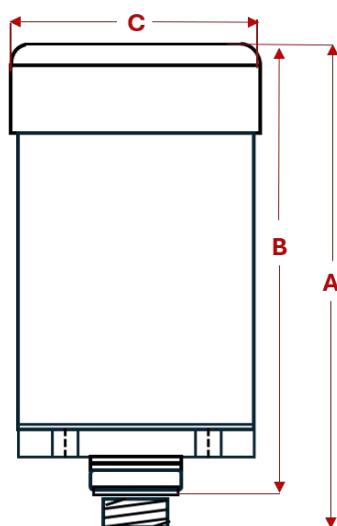
## Colour indicator

The traditional blue cobalt chloride desiccant is toxic and environmentally hazardous. In contrast, the orange desiccant alternative is cobalt-free, safer, non-toxic, and just as effective at absorbing moisture, making it a better choice for protecting equipment while reducing environmental impact.



Replace when desiccant changes to **Green**.

## Breather sizing



Series	A	B	C
D-LBG-BB	98mm	180mm	16mm
D-LBG-01	136mm	240mm	17mm
D-LBG-02	152mm	280mm	25mm
D-LBG-03	203mm	391mm	25mm
D-LBG-04	254mm		
Thread Size			
D-LBG-BB & D-LBG-01	3/8" Multi-fit male thread with o-ring Seal, compatible with 3/8" NPT; 3/8" BSPT; 3/8" sSPP (mining breather)		
D-LBG-02, D-LBG-03 & D-LBG-04	1" multi-fit male thread with o-ring seal, compatible with: 1" NPT; 1" NPSM; 1" BSPT; 1" BSPP		

This serves as a general guideline for breather sizing; however, factors like humidity levels, airflow frequency, ambient temperature, and chemical compatibility plays a crucial role in selecting the correct size. Larger systems and unique conditions often demand a more detailed assessment. Minor differences in the manufacturing process are normal and remain within the acceptable engineering tolerances.

