

PRODUCT DATA SHEET

Rebuildable Breather with check-valve



Description

Lubrigard rebuildable breathers are designed to deliver efficient drying and contamination control in sensitive lubrication systems. Engineered for serviceability, they allow for the replacement of expired parts, minimising cost of ownership. The breather features an innovative check-valve configuration, which vents expelled air to the atmosphere instead of back through the breather - significantly extending desiccant life. These breathers are ideal for protecting critical lubrication systems, including compressors, turbines, and bulk storage tanks.

Functionality

Lubrigard rebuildable breathers are designed for sensitive lubrication systems, such as compressors and turbines, where moisture control is crucial. This breather range features serviceable parts and requires either the spin-on breather element or desiccant to be replaced, whichever is needed first.

The rebuildable design offers a cost-effective solution, significantly reducing ownership costs. This makes them an excellent choice for bulk lubrication and bulk diesel tank applications.

The rebuildable breather utilises two types of desiccants: orange chloride and Zeolite. Orange chloride serves as a saturation indicator, turning green when replacement is needed, while Zeolite ensures superior drying efficiency.

Product specifications

Filter efficiency:

- (3µm absolute ($\beta_3 \geq 200$))

Filter media:

- Glass fiber

Temperature range:

- - 40°C to 90°C

Hydrophilic media:

- Zeolite/ orange chloride

Chemical compatibility:

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

Product series	Series 300	Series 600	Series 1000	Series 2000
Desiccant volume	300cc	600cc	1000cc	2000cc
Amount of desiccant	230g	460g	770g	1540g
Water adsorption capacity (maximum water retention)	86ml	172ml	288ml	576ml
Colour change indication	Orange to Green			
Check valve cracking pressure	0,01 bar			





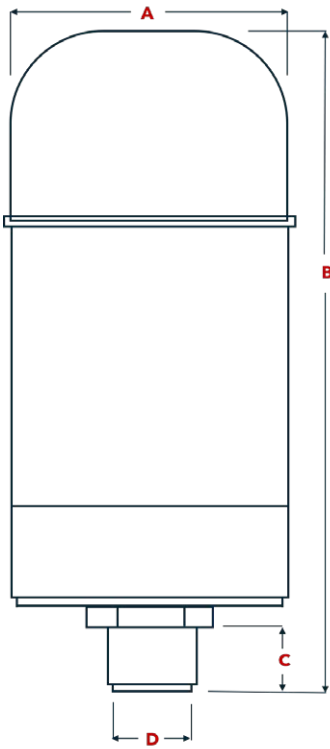
General applications:

- Compressors
- Turbines
- Electrical transformers
- Bulk tank facilities
- Conveyor gearboxes
- Hydraulic power packs



Application size limits	Series 300	Series 600	Series 1000	Series 2000
Max. airflow at ΔP 1 psi [.07 bar] without check valves	700l/min	/	/	/
Max. airflow at ΔP 1 psi [.07 bar] with check valves	/	300 l/m	400l/min	400l/min

Breather dimensions



Replace when desiccant changes to **Green**.

Series	A	B	C
Series 300	98mm	180mm	16mm
Series 600	98mm	240mm	17mm
Series 1000	130mm	280mm	25mm
Series 2000	130mm	391mm	25mm
Thread Size (D)			
Series 300 & 600	¾ BSP Male		
Series 1000 & 2000	1 ¼ BSP Male		

	Series 300	Series 600	Series 1000	Series 2000
Spin on element #	LBG-SF-090	LBG-SF-090	LBG-SF-120	LBG-SF-120
Replacement desiccant #	LBG-ZO-300	LBG-ZO-600	LBG-ZO-1000	LBG-ZO-2000

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.

