

Desiccant Breathers

FG-BB/-1/-2/-3/-4 and CV

1. Features

Desiccant breathers ventilating mobile and stationary hydraulic tanks

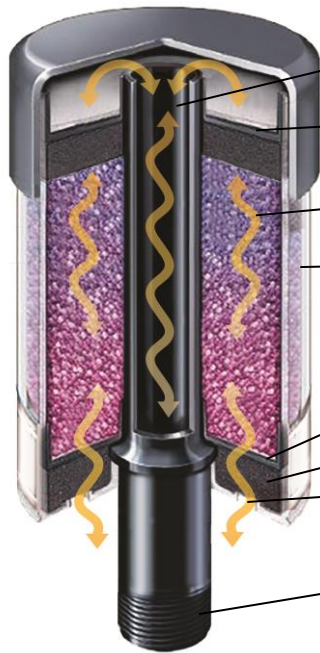
The FG desiccant breather replaces the customary dust caps or breathers often found on new equipment. When contaminated air enters the top of the breather, it passes through layered filter media, preventing solid particles from entering the breather and causing undue wear to your equipment surfaces. Filtered air passes through a bed of Power Breather silica gel, which removes harmful moisture from the air. The silica beads also work to attract moisture from inside the equipment reservoir during service or shut-down, keeping the equipment dry. FG Desiccant breathers protect lubricants and equipment from damage due to moisture and particulate intrusion. Extends service cycles and equipment life resulting in lower lifetime operating costs. FG desiccant breather are also optional available with a biasing valve (CV). Biasing valves reduce the air change to a necessary level and extend the desiccant breather service cycles.

Applications and industries

- Tanks
- Transformers
- Storage of fluids
- Hydraulics
- Wind Energy
- Power Generation
- Mining
- Aviation
- Manufacturing
- Petrochemical
- Pulp and Paper
- Versions with check valve available
- Worldwide distribution



2. Functional description



Center Tube

The center tube is constructed from rugged nylon material providing rigidity to the element and allowing for even airflow through the silica gel.

Secondary Filter Media

Second filter step prevents any possible migration of silica dust and is providing added system protection.

Moisture Absorbent

The silica gel provides industry leading moisture removal and holds up to 40 % of its weight.

Polycarbonate Outer Shell

Clear outer shell provides a visual indicator of silica gel condition allowing for optimum change out intervals.

Filter Media

3-micron absolute particulate filtration is provided by a multi-layer polyester filter media.

Oil Mist Collector

Polyurethane foam collects oil mist and distributes air evenly over filter media and moisture absorbing silica gel.

Air Intakes

Air intakes are opened for operation. Breathers are delivered closed to provide moisture protection while being shipped/stored.

Connection

Replaces filler/breather cap with versatile connection. Fits standard NPT and BSP.

3. Dimensions

Type	Height in mm	Diameter in mm
FG-BB	106,5	64,5
FG-1	142,0	
FG-2	155,0	104,0
FG-3	210,0	
FG-4	262,0	

4. Technical Data

Temperature range: -29 °C to +93 °C
(other temperature ranges on request)

Housing material:

Cover: Polycarbonate
Shell: Polycarbonate, clear
Center tube: Nylon material

Filter material:

Oil Mist Collector: Polyurethane foam
Filter media: Polyester filter media
Moisture Absorbent: Silica gel
Secondary Filter Media: Polyester fleece

Filter efficiency:

all: 3 µm absolute

Connection thread:

FG-BB: 3/8 "
FG-1 to FG-4: 1 "
(all NPT, BSPP or BSPT)

Type	max. air flow at 1 psid/69 mbar [l/min]	max. water retention [ml]	Order numbers
FG-BB	130	28	72447120
FG-1		60	72447126
FG-2	435	142	72447127
FG-3		264	72447129
FG-4		424	72447131
FG-BB CV	42	28	72447132
FG-1 CV		60	72447133
FG-2 CV	70	142	72447135
FG-3 CV		264	72447136
FG-4 CV		424	72447138

CV = Biasing valve

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