



**LUBE**  
Control

Lube Control Pty Ltd

# PÜTZ

## CHECK VALVE Desiccant Breathers



### Product Description

The Pütz Check Valve desiccant breather range provides high-efficiency moisture and particulate control for hydraulic reservoirs, gearboxes, IBC's, transformers, and lubrication storage systems. The Check Valve breather is ideal for oil reservoirs with low air flow\*\*\*. Each breather replaces a standard vent cap or paper filter, ensuring that all incoming air is filtered to **3-micron absolute** and dried through **indicating silica gel** to prevent water ingress and airborne contamination.

### Key Features

- **Indicating silica gel** (blue) for clear visual saturation monitoring
- **3-micron absolute particulate filtration** for fine dust and airborne contaminants
- **Integrated standpipe** for even airflow distribution and vibration resistance
- **Rugged construction** using impact-resistant housings suitable for industrial and mobile equipment
- **Built in Check Valve** to ensure airflow through breather is present when the equipment breaths
- **Threaded multi-fit mounting** for fast installation on reservoirs, gearboxes, and IBC's

### Operating Principle

As equipment "breathes," with warming and cooling of the equipment, incoming air passes through the breather:

1. **Bottom particulate filter**, ensures only clean, dry air enters the system
2. **Indicating silica gel** removes moisture
3. **Top particulate filter** filters the air to 3micron absolute

Outgoing air vents through the same filtration path, protecting the silica gel from oil mist and extending service life.

### Technical Specifications

<b>Particulate rating</b>	3µm absolute
<b>Moisture control</b>	Indicating silica gel, colour change <b>blue</b> → <b>pink</b>
<b>Housing</b>	Polycarbonate
<b>Check valve cracking pressure</b>	0.1PSI
<b>Gaskets</b>	Buna-N
<b>Operating temperature</b>	-20°C to +90°C
<b>Maximum humidity exposure</b>	100% RH
<b>UV resistance</b>	High
<b>Service life</b>	Dependent on humidity, airflow, and system cycling frequency



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### Different sizes for different applications

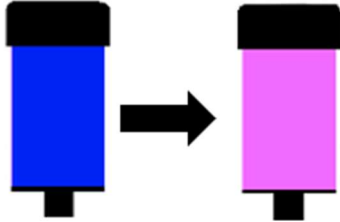
Model	Connection NPT/BSP male	Airflow Capacity L/min	Silica Gel Capacity (g)	Dimensions W x H (mm)	Typical Applications
DB-PUTZ-CV1	3/8"	10–40	50 g	63.5 x 89	Small gearboxes, reservoirs
DB-PUTZ-CV2	1"	40–100	150 g	101.5 x 155	Hydraulic reservoirs
DB-PUTZ-CV3	1"	100–200	300 g	101 x 206	Mobile equipment
DB-PUTZ-CV4	1"	150–250	500 g	101.5 x 257	Large industrial systems

### Installation

- Remove existing vent or filler cap
- Ensure mounting surface is clean and free of debris
- Thread breather onto port (hand-tight)
- Do not overtighten
- Replace breather when silica gel is fully saturated. Colour will change to Pink

### Maintenance

- Inspect silica gel colour regularly
- Replace breather after 1 year or when indicating media reaches full saturation. The silica gel will turn pink.



### Active Replace

- Avoid exposure to direct oil mist to maximise service life

### Applications

- Hydraulic power units
- Gearboxes and bearing housings
- Lubricant storage drums and totes
- Transformers
- Mobile equipment
- Industrial machinery exposed to dust or humidity

### Storage

- Store unused breathers indoors in a sealed package

*\*\*\*For high airflow oil reservoirs – please check out the Pütz “Standard” Breathers*