# TTI
Todd Technologies Inc

Power Breathers-CV™

Protects lubricants and equipment from moisture and particulate intrusion.
TTI's check-valve technology is ideal for low-flow applications
with intermittent operations.

TTI Power Breathers-CV

This breather unit is a marked improvement over the customary dust caps or OEM breathers on 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 orange silica beads also work to attract moisture from inside the equipment reservoir during service or shut-down, keeping the equipment dry. The addition of check-valves in our CV breather is ideal for low-flow and intermittent operations in high humidity conditions.

① **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.

② **Secondary Filter Media**
Second filter step prevents any possible migration of silica dust providing added system protection.

③ **Oil Mist Collector**
Polyurethane foam collects oil mist and distributes air evenly over filter media and moisture absorbing silica gel.

④ **Moisture Absorbent**
The Power Breather silica gel provides industry leading moisture removal and holds up to 40% of its weight.

⑤ **ABS Outer Shell**
Clear outer shell provides a visual indicator of silica gel condition allowing for optimum change out intervals.

⑥ **Filter Media**
3-micron absolute particulate filtration is provided by a polyester filter media.

⑦ **Check-Valves**
Check-valves provide protection in washdown areas. Check-valves isolate equipment from ambient conditions, prolonging life.

⑧ *Sure-fit* **Connection**
Use sure-fit connections instead of filler/breather cap. Adapters also available.
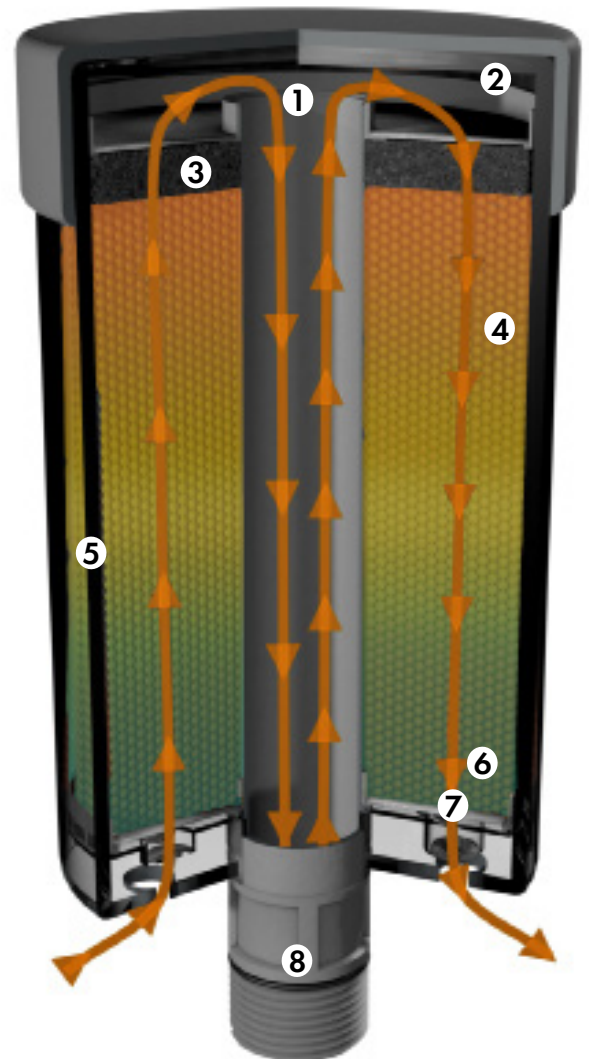
Dimensions

Model	Connection	Height	Width
TTE-BB-CV	3/8" Sure-Fit (NPT, BSPP, BSPT)	4.30"(10.92cm)	2.52" (6.40cm)
TTE-1-CV	3/8" Sure-Fit (NPT, BSPP, BSPT)	5.80" (14.73cm)	2.52" (6.40cm)
TTE-2-CV	1" Sure-Fit (NPT, BSPP, NPSM)	6.24" (15.85cm)	4.10" (10.41cm)
TTE-3-CV	1" Sure-Fit (NPT, BSPP, NPSM)	8.44" (21.27cm)	4.10" (10.41cm)
TTE-4-CV	1" Sure-Fit (NPT, BSPP, NPSM)	10.54" (26.78cm)	4.10" (10.41cm)

Sizing suggestions

Model	Max Moisture Retention
TTE-BB-CV	28ml / 1.0 fl oz
TTE-1-CV	60ml / 2.0 fl oz
TTE-2-CV	142ml / 4.8 fl oz
TTE-3-CV	264ml / 8.9 fl oz
TTE-4-CV	424ml / 14.3 fl oz

Note: Max moisture retention varies with operating conditions

Model	Max Airflow at 1psid
TTE-BB-CV	5 cfm / 142 lpm
TTE-1-CV	5 cfm / 142 lpm
TTE-2-CV	10 cfm / 283 lpm
TTE-3-CV	10 cfm / 283 lpm
TTE-4-CV	10 cfm / 283 lpm

Materials

Body:
ABS, Nylon, Polypropylene, Buna

Moisture Absorbing Media:
Orange Silica Gel

Filter Media:
Polyester, Polyurethane

Filter Efficiency:
3 Micron Absolute

Operating temperatures:
-20 F to 200 F
-29 C to 93 C

Performance

The TTI Breather offers significant performance improvements over other leading desiccant breathers.

Value add features:
Multiple head-to-head tests with leading competitors demonstrate that TTI POWER Breather Silica Gel averages nearly 20% more moisture holding capacity than other leading brands.

The increased body length of the TTI POWER Breather allows for 10% more volume of our silica gel when compared to leading competitors.

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TODD TECHNOLOGIES INC

Applications

- High Humidity Areas
- Washdown Environments
- Low-Flow
- Gear Boxes

Typical Industries

- Manufacturing
- Chemical
- Pulp & Paper
- Storage Facilities
- Mining
- Power Plants
- Wind Energy

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