

TitanBlock PowerBreather™

Retro-fit cartridges for Air Sentry® Guardian® Breathers.
TTI improves performance with Dual Phase microglass 1-micron absolute
media and industry-leading Power Gel.



Applications

Large Gearboxes | Remote Applications | Storage Tanks | Wind Turbines

Typical Industries

Aviation | Manufacturing | Mining | Petrochemical | Pulp & Paper | Storage | Wind Energy

TTI TitanBlock PowerBreather™

① DUAL PHASE MICROGLASS FILTRATION MEDIA

Delivers superior filtration with higher efficiency and greater dirt loading capacity.

② ORANGE POWER GEL MEDIA

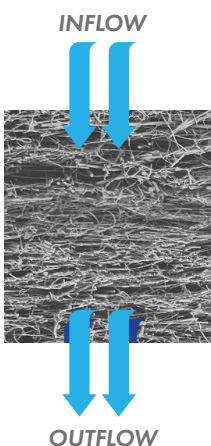
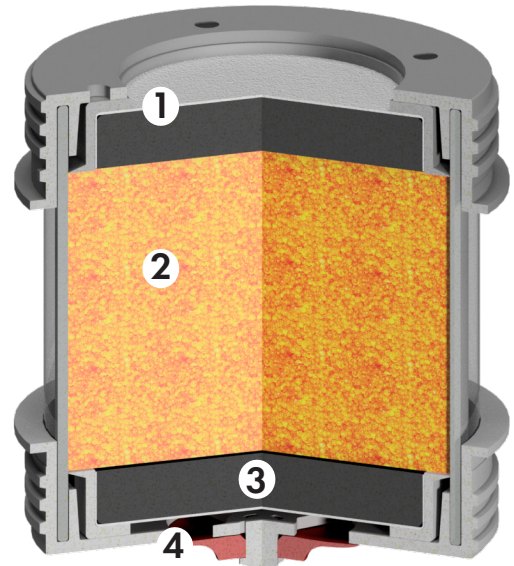
Industry leading moisture capacity as proven in the lab and field.

③ OIL MIST COLLECTOR

Polyurethane foam traps oil mist, protecting Power Gel media from contamination.

④ CHECK VALVE (OPTIONAL)

Allows outflow air to rapidly evacuate the breather body without contacting Power Gel media. Prevents premature saturation of the Power Gel and eliminates the chance for oil mist to degrade performance.



DUAL PHASE FILTRATION

Delivers superior filtration efficiency, dirt holding capacity and low pressure drop.

← Pre-Filter Phase

Pre-filtration phase provides high dirt-holding capacity for capturing larger particulates in fluids, extending the life of the filter element.

← Final Retentive Phase

Fine denier fibers provide high-efficiency polishing to remove the finest particulates.

SPECIFICATIONS

TTI Model	Replaces Air Sentry Model	Isolation Check Valve	Height	Width	Power Gel	Max Absorption Capacity
TGE5S	GRC5S	NO	5"	5"	1.5lbs/0.68kg	10.1oz/298mL
TGE5SC	GRC5SC	YES	5"	5"	1.5lbs/0.68kg	10.1oz/298mL
TGE8S	GRC8S	NO	8"	5"	2.8lbs/1.27kg	18.9oz/559mL
TGE8SC	GRC8SC	YES	8"	5"	2.8lbs/1.27kg	18.9oz/559mL
TGE12S	GRC12S	NO	12"	5"	4.5lbs/2kg	30.3oz/896mL
TGE12SC	GRC12SC	YES	12"	5"	4.5lbs/2kg	30.3oz/896mL

MATERIALS

Body

Polycarbonate, Polypropylene, Buna

Dual Zone Media

Microglass

Operating temperatures

-20 F to 200 F

-29 C to 93 C

Moisture Absorbing Media

Orange Silica Power Gel

Filter Efficiency

1 Micron Absolute

PERFORMANCE

The TTI TitanBlock PowerBreather™ offers significant performance improvements over other leading desiccant breathers.

Value add features:

Multiple head-to-head tests with leading competitors demonstrate that TTI's Power Gel averages nearly 20% more moisture holding capacity than other leading brands.

