



# TTI

Service Quality Innovation

## European Titan PowerBreather™

High flow, extended life PowerBreathers™ are ideal for tank farms and large applications. Options include: standard check-valve technology, SmartFlow™ technology, and no check-valve option for extreme flow applications.



### Applications

Large Gearboxes | Remote Applications | Storage Tanks | Wind Turbines

### Typical Industries

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



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## Standard Titan Check-Valve Model

The Standard Check-Valve model offers protection from ambient humidity in intermittent operations.

TTI's Titan Check-Valve PowerBreather™ key features include:

Dual-Phase Microglass Filtration Media that delivers superior filtration efficiency, dirt holding capacity and low pressure drop.

Inflow/Outflow Check Valves that protects the Power Gel media from humid and ambient conditions while extending breather life.

Power Gel Media that is lab proven to lead the industry in moisture capacity.

Foam Filter made from robust urethane foam that traps particulate and scavenges residual oil mist, preventing contamination of the Power Gel media.

Coalescer that collects oil mist and returns it to the fluid tank to protect the Power Gel media from contamination.



No check valves allow air to inhale and exhale freely

## Titan No Check-Valve Model

The No Check-Valve model offers extremely high flows at reduced pressure drops for large applications.



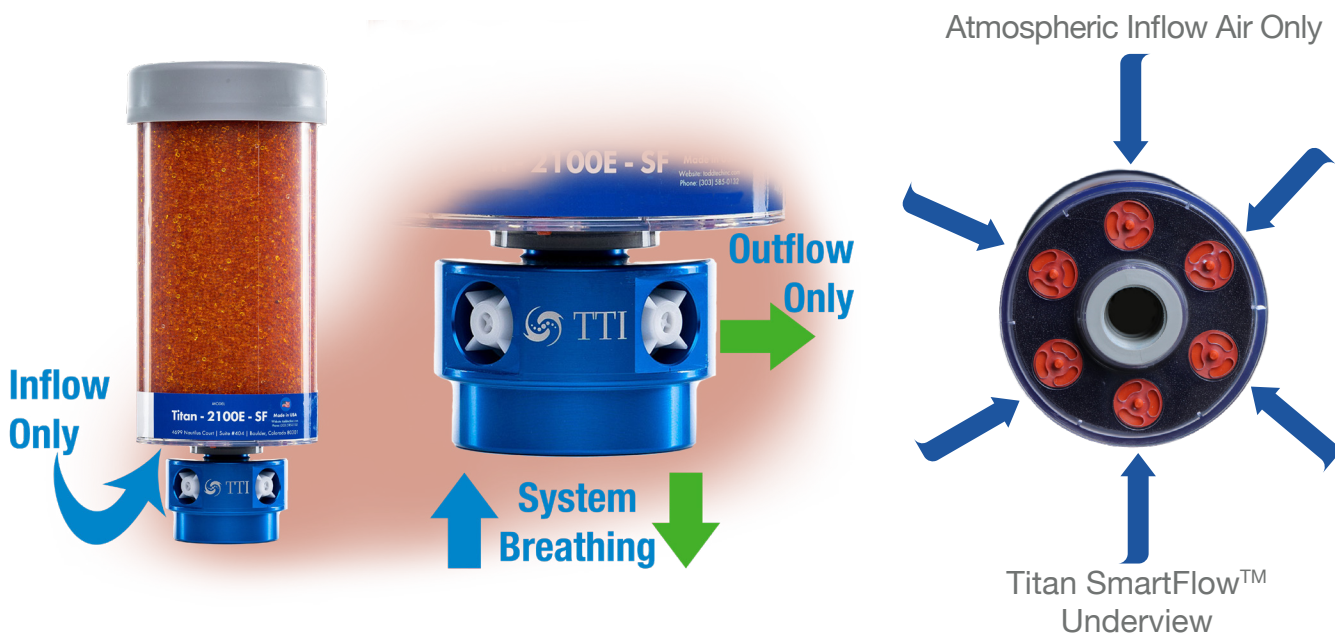


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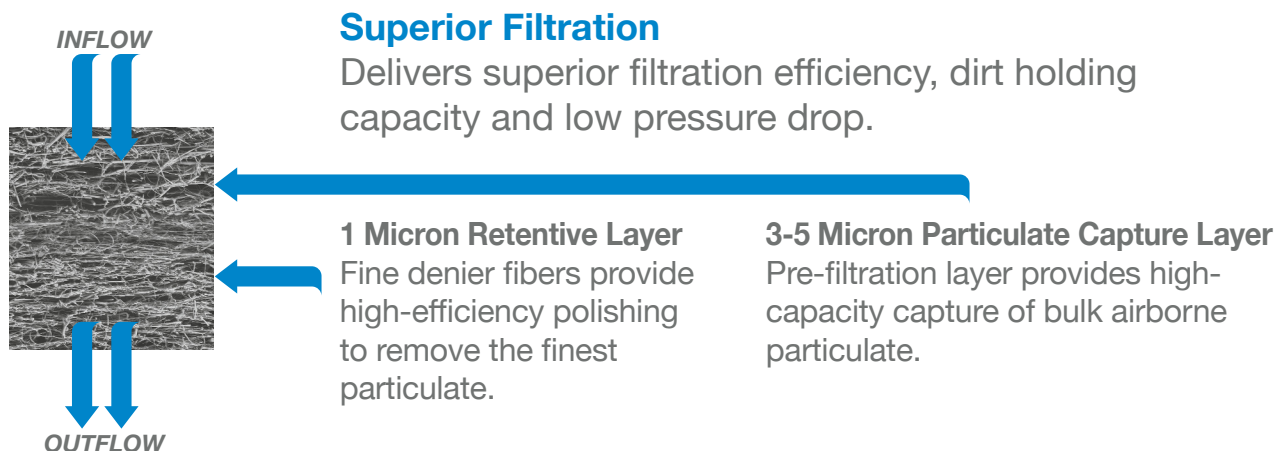
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## Titan SmartFlow™ Model

The SmartFlow™ adapter allows for exhaust of the outflow air prior to entering the breather. This protects the breather from oil mist and system humidity, resulting in longer breather life.



\* Titan SmartFlow™ PowerBreather™s (Titan-XXXX-SF) consist of all check valves positioned inward to exclusively inhale from the atmosphere, therefore must be used with the Titan-SF-A1 (1" FNPT) or Titan-SF-A2 (2" FNPT) SmartFlow™ Adapters to exhale all air out of the system.





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## Dimensions

Standard Models	Europe	Connection	Height	Width	Max Airflow at 1psid	Max Moisture Retention
Titan-600	Titan-600E	1" Sure-Fit (FNPT, FBSPP, FNPSM)	4.4"	5.7"	27 cfm / 765 lpm	272 ml / 9.2 fl oz
Titan-1100	Titan-1100E	1" Sure-Fit (FNPT, FBSPP, FNPSM)	6.5"	5.7"	26 cfm / 736 lpm	500 ml / 16.9 fl oz
Titan-1600	Titan-1600E	1" Sure-Fit (FNPT, FBSPP, FNPSM)	8.6"	5.7"	25 cfm / 708 lpm	728 ml / 24.6 fl oz
Titan-2100	Titan-2100E	1" Sure-Fit (FNPT, FBSPP, FNPSM)	10.7"	5.7"	24 cfm / 680 lpm	958 ml / 32.4 fl oz

SmartFlow Models	Europe	Connection	Height	Width	Max Airflow at 1psid	Max Moisture Retention
Titan-600-SF	Titan-600E-SF	1" Sure-Fit (FNPT, FBSPP, FNPSM)	4.4"	5.7"	30 cfm / 845 lpm	272 ml / 9.2 fl oz
Titan-1100-SF	Titan-1100E-SF	1" Sure-Fit (FNPT, FBSPP, FNPSM)	6.5"	5.7"	29 cfm / 821 lpm	500 ml / 16.9 fl oz
Titan-1600-SF	Titan-1600E-SF	1" Sure-Fit (FNPT, FBSPP, FNPSM)	8.6"	5.7"	28 cfm / 793 lpm	728 ml / 24.6 fl oz
Titan-2100-SF	Titan-2100E-SF	1" Sure-Fit (FNPT, FBSPP, FNPSM)	10.7"	5.7"	26 cfm / 736 lpm	958 ml / 32.4 fl oz

### SmartFlow Adapters

Titan-SF-A1 1" Female NPT/BSPP

Titan-SF-A2 2" Female NPT/BSPP

\*Titan SmartFlow™ PowerBreather™s (Titan-XXXX-SF consists of all check valves positioned inward to exclusively inhale from the atmosphere, therefore must be used with the Titan-SF-A1 (1" FNPT) or Titan-SF-A2 (2" FNPT) SmartFlow™ Adapters to exhale all air out of the system.

\*\*Titan-Adapter-SF adds 2.2 inches of height to SF model Titan PowerBreather™s.

No Check Valve Models	Europe	Connection	Height	Width	Max Airflow at 1psid	Max Moisture Retention
Titan-600-NC	Titan-600E-NC	1" Sure-Fit (FNPT, FBSPP, FNPSM)	4.4"	5.7"	39 cfm / 1104 lpm	272 ml / 9.2 fl oz
Titan-1100-NC	Titan-1100E-NC	1" Sure-Fit (FNPT, FBSPP, FNPSM)	6.5"	5.7"	36 cfm / 1019 lpm	500 ml / 16.9 fl oz
Titan-1600-NC	Titan-1600E-NC	1" Sure-Fit (FNPT, FBSPP, FNPSM)	8.6"	5.7"	35 cfm / 991 lpm	728 ml / 24.6 fl oz
Titan-2100-NC	Titan-2100E-NC	1" Sure-Fit (FNPT, FBSPP, FNPSM)	10.7"	5.7"	32 cfm / 906 lpm	958 ml / 32.4 fl oz

## Standard Materials On All Models

### Body

ABS, Nylon,  
Polypropylene, Buna-N

### Dual-Zone Media

Micro glass, Polyester

### Moisture Absorbing Media

Blue Silica Gel,  
Orange Gel for Europe

### Filter Efficiency

1 Micron Absolute

### Operating Temperatures

-20 F to 200 F,  
-29 C to 93 C



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