TTI

Todd Technologies Inc

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 Energy

TTI Titan PowerBreather™

Standard Titan Check-Valve Model

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

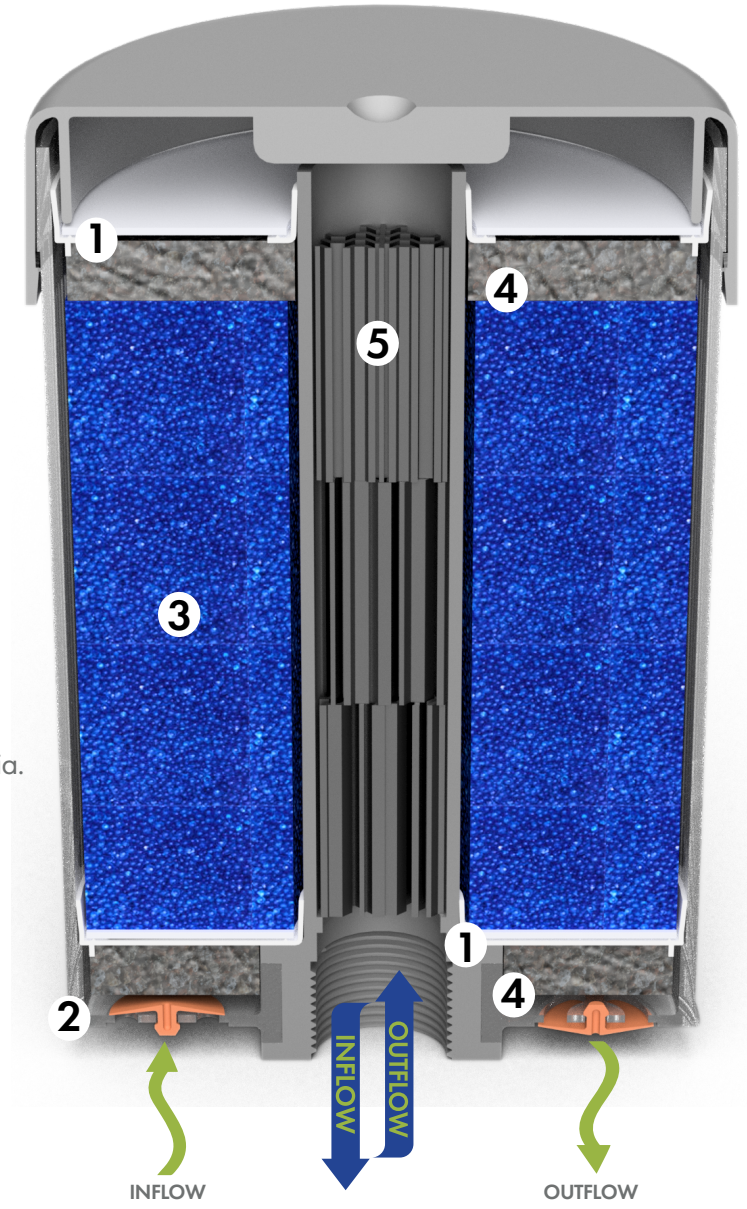
① **DUAL–ZONE MICROGLASS FILTRATION MEDIA**
Delivers superior filtration efficiency, dirt holding capacity and low pressure drop.

② **INFLOW/OUTFLOW CHECK VALVES**
Protects the Power Gel media from humid ambient conditions, extending breather life.

③ **POWER GEL MEDIA**
Industry leading moisture capacity as proven in the lab and field.

④ **FOAM FILTER**
Urethane foam traps particulate and scavenges residual oil mist, preventing contamination of the Power Gel media.

⑤ **COALESCER**
Collects oil mist and returns it to the fluid tank, protecting the Power Gel media from oil contamination. It has up to 4X the functional surface area of competing brands.



Flow path is the same for check valve and no check valve models

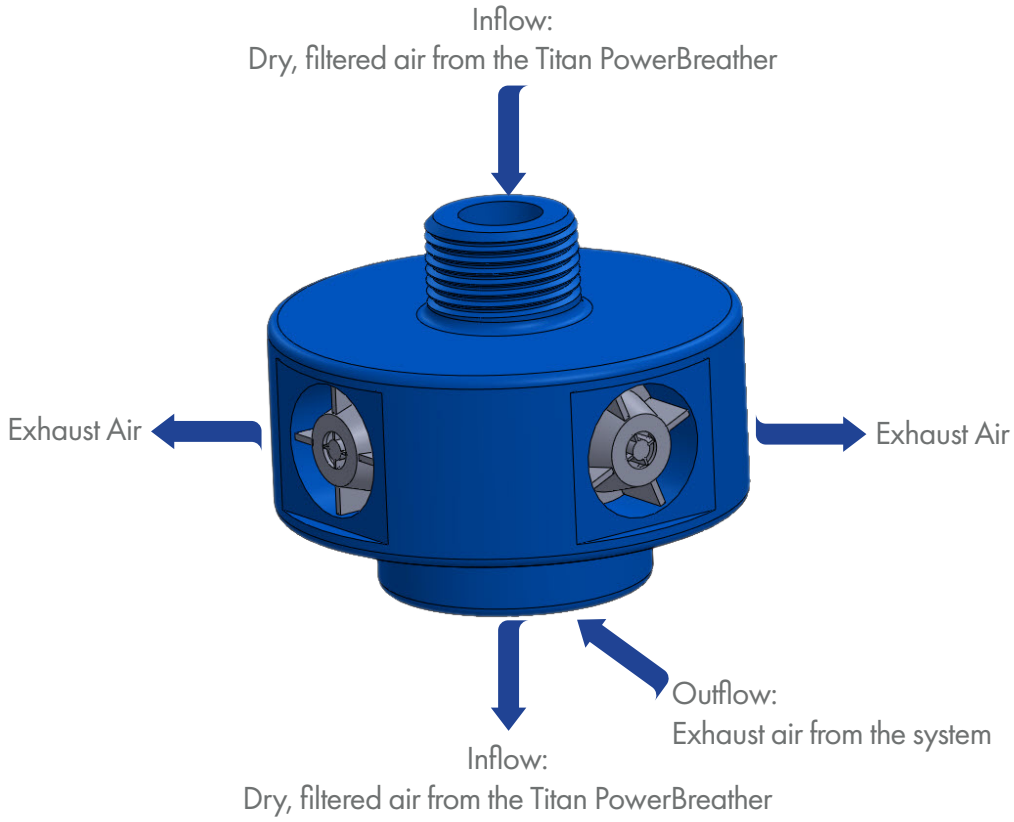
Titan No Check-Valve Model

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

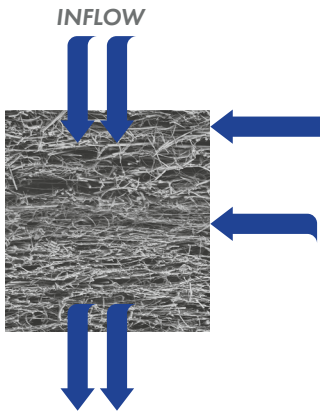
TTI Titan PowerBreather™

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 PowerBreather SF Models **MUST** be used together with the SmartFlow™ adapter model: **Titan-Adapter-SF** to allow pressure to vent from the system.



SUPERIOR FILTRATION

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

1 Micron Retentive Layer
Fine denier fibers provide high-efficiency polishing to remove the finest particulate.

3-5 Micron Particulate Capture Layer
Pre-filtration layer provides high-capacity capture of bulk airborne particulate.

TTI Titan PowerBreather™

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

Smart Flow 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

*Titan PowerBreather SF Models, MUST be used together with a SmartFlow™ adapter to allow pressure to vent from the system.
**Titan-Adapter-SF adds 2.2 inches of height to SF model Titan PowerBreathers.

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

Moisture Absorbing Media
Blue Silica Gel,
Orange Gel for Europe

Dual-Zone Media
Micro glass, Polyester

Filter Efficiency
1 Micron Absolute

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

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