



PERFORMANCE

# Desiccant Breathers

SWEPACO offers desiccant breathers designed to reduce particulate and moisture contamination to keep fluids and equipment running and lasting longer. The clear view 360 degree design makes it easy to inspect the saturation of the color-changing silica gel from a distance. The inert silica gel turns from gold to dark green to visually indicate the adsorption of moisture and confirm the breather is getting the job done



**GOOD**  
**Z-SERIES**  
**D-SERIES**



**BETTER**  
**X-SERIES**



**BEST**  
**GUARDIAN**

The breathers cover a wide range of application requirements. The line consists of Good, Better and Best options designed to meet your specific application and duration specifications.

**Z-SERIES - Good: Limited Space Applications, Fully Disposable**

Z-Series breathers are fully disposable and are designed for applications where space is limited or air flow requirements are lower than 5 cfm. The Z-Series is typically used on gearboxes and low fluid volume applications where mounting space is limited or where a larger breather will not fit without remote mounting.

*Limited Space Applications - Gearboxes, Drums, Totes, Small Oil Containers*

Height in. (cm)	Diameter in. (cm)	Mounting Connection	Silica Gel lbs. (kg)	Maximum Adsorption Capacity fl.oz. (ml)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type of Medium
3.25 (8.3)	3.25 (8.3)	1/2" FNPT	0.5 (0.2)	3.06 (90)	5	37	Silica Gel

**D-SERIES - Good: Stationary Applications, Fully Disposable**

D-Series breathers feature numerous models in a variety of sizes, they are fully disposable and designed to satisfy the requirements of most stationary fluid management applications. The breathers provide application flexibility by using 100% silica gel for moisture adsorption. All D-Series models feature 2-micron solid particle filtration and are available with airflow ratings of 20 cfm.

*Stationary Applications - Oil Storage Tanks, Fluid Reservoirs, Transformers, Pumps, Gearboxes*

Height in. (cm)	Diameter in. (cm)	Mounting Connection	Silica Gel lbs. (kg)	Maximum Adsorption Capacity fl.oz. (ml)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type of Medium
3.5 (8.9)	5 (12.7)	1" slip fit	0.8 (0.4)	4.91 (145)	20	150	Silica Gel
8 (20.3)	5 (12.7)	1" slip fit	2.7 (1.2)	16.56 (489)	20	150	Silica Gel
8 (20.3)	5 (12.7)	1" MNPT	2.7 (1.2)	16.56 (489)	20	150	Silica Gel
8 (20.3)	5 (12.7)	2" MNPT	2.7 (1.2)	16.56 (489)	20	150	Silica Gel

**X-SERIES - Better: High Humidity/High Dust Applications, Replacement Cartridges Available**

X-Series breathers are a better solution for high humidity and high dust environments. This breather series offers replacement cartridges for each breather. To extend desiccant life, the X-Series incorporates two check valves into a reusable top cap. The check valves provide a closed system until airflow is required, thus extending the service life of the desiccant. The intake check valve allows airflow into the breather only when differential pressure between the atmosphere and fluid reservoir exceeds a 0.1-psi threshold (cracking pressure of the check valves). The exhaust check valve permits air to exit the reservoir when the differential pressure exceeds 0.1-psi.

*High Humidity/High Dust Applications - Paper Mills, Wash-Down Areas, Steam-Cleaning Rooms, Mine Quarries*

Check Valve PSI In/Out	Height in. (cm)	Diameter in. (cm)	Mounting Connection	Silica Gel lbs. (kg)	Maximum Adsorption Capacity fl.oz. (ml)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type of Medium
0.3/0.3	6.25 (15.9)	3.25 (8.3)	1" FNPT	0.8 (0.4)	4.91 (145)	10	75	Silica Gel
0.1/0.1	7 (17.8)	5 (12.7)	1" slip fit	1.4 (0.6)	8.6 (254)	20	150	Silica Gel
0.1/0.1	10 (25.4)	5 (12.7)	1" MNPT	2.7 (1.2)	16.56 (489)	20	150	Silica Gel
0.1/0.1	7 (17.8)	5 (12.7)	1" MNPT	1.4 (0.6)	8.6 (254)	20	150	Silica Gel

**GUARDIAN - Best: Ideal for Most Applications, Replacement Cartridges Available, Customizable Modular Add-Ons**

GUARDIAN is Air Sentry's industry leading breather series. Some models feature an isolation check valve that keeps exhaust air from depleting the desiccant and protects from volatile fumes and splashing fluids. The GUARDIAN's casing is constructed from Tritan®, a patented material highly resistant to impact and chemicals with a broad range of operating temperatures. These unique features equate to a longer life for your breather and your equipment.

GUARDIAN's modular construction and optional add-on features allow you to customize each Guardian model to your specific application requirements. From the isolation check valve, to its stackable design, from its wash-down cap, or its compound indicating gauge, to the high-capacity HEPA filter, the GUARDIAN will last longer and reduce downtime giving you the flexibility you need to protect your industrial assets. *Ideal for Most Applications - The only desiccant breather series that Air Sentry recommends for diesel fuel applications (not recommended for other fuel applications)*

Check Valve PSI In/Out	Height in. (cm)	Diameter in. (cm)	Mounting Connection	Silica Gel lbs. (kg)	Maximum Adsorption Capacity fl.oz. (ml)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type of Medium	Isolation Check Valve	Compound Indicating Gauge
0.1/0.1	9 (22.3)	5.125 ( )	1" NPT	1.5 (0.68)	9.2 (272)	25	187	Silica Gel	Yes	No
0.1/0.1	12 (30.5)	5.125 ( )	1" NPT	1.5 (0.68)	17 (502)	25	187	Silica Gel	Yes	Yes



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