

Extended Series® Breathers

High airflow, long-lasting desiccant breathers with check-valve technology ideal for tank farms and large applications.



MATERIALS & COMPONENTS:

- **Filter Media:** Polyurethane, polyester
- **Hydrophilic Agent:** Silica gel
- **All Other Materials:** Polycarbonate, nylon, polypropylene, PVC, Buna-N, silicon, EPDM

CHEMICAL COMPATIBILITY:

Compatible with all mineral oils, most synthetic oils and diesel (Contact Des-Case technical support for chemical compatibility inquiries)

PERFORMANCE SPECIFICATIONS:

Product Specifications	DC-EX-1	DC-EX-2	DC-EX-3	DC-EX-4
Airflow at 1psid	27 cfm (765 l/min)	26 cfm (736 l/min)	25 cfm (708 l/min)	24 cfm (680 l/min)
Filter Efficiency	3 µm absolute ($\beta_3 \geq 200$)			
Temperature Range	-20°F to 200°F (-29°C to 93°C)			
Water Adsorption Capacity (Maximum Water Retention)	7.7 fl oz (228 ml)	14.1 fl oz (417 ml)	20.5 fl oz (606 ml)	27.0 fl oz (798 ml)
Application Sizing Recommendations				
Gearbox / Storage Tank	400 gal (1514 L)	600 gal (227 L)	800 gal (3028 L)	1000 gal (3785 L)
Hydraulic Reservoir	100 gal (379 L)	200 gal (757 L)	300 gal (1136 L)	400 gal (1514 L)
Suction / Return Rate	31 gpm (118 l/min)	120 gpm (453 l/min)	120 gpm (453 l/min)	120 gpm (453 l/min)

PLEASE NOTE: This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very

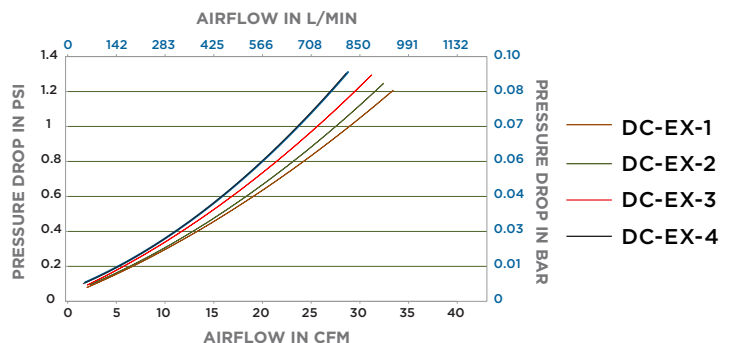
important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.

How It Works

As wet, contaminated air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulate, and the color-indicating silica gel extracts moisture. When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere.

Additionally, the breather is outfitted with a resilient nylon standpipe and polypropylene oil mist reducer to allow oil mist to coalesce and drain back into the reservoir, rather than compromising the desiccant. Six high-quality umbrella check-valves are located underneath the unit to isolate equipment from ambient conditions, prolonging breather life and protecting system integrity.

AIRFLOW:



Applications:

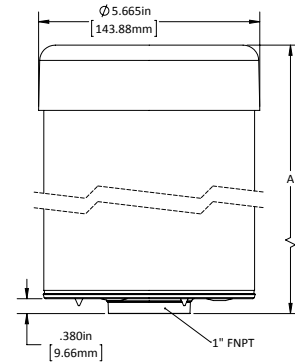
- Storage Tanks
- Wind Turbines
- Large Gearboxes
- Remote Applications

Typical Industries:

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

DIMENSIONS

	A	Connection
Part Code	inch / mm	1" Female (FNPT)
DC-EX-1	4.7 in / 119 mm	
DC-EX-2	6.4 in / 163 mm	
DC-EX-3	8.2 in / 208 mm	
DC-EX-4	10.0 in / 254 mm	



ADAPTERS

DC-EXA-10	Description	Steel Threaded Adapter	DC-EXA-17	Description	Steel Threaded Adapter
	Breather Threaded Mount Size	1" Male NPT		Breather Threaded Mount Size	1" Male NPT
	Equipment Connection Port/Size	1" Male NPT		Equipment Connection Port/Size	3/4" Female NPT
	Breathers	Extended Series® (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)		Breathers	Extended Series® (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)
DC-EXVA-12M	Description	Steel Vent Valve Adapter	DC-EXVA-16M	Description	Steel Vent Valve Adapter
	Breather Threaded Mount Size	1" Male NPT		Breather Threaded Mount Size	1" Male NPT
	Equipment Connection Port/Size	3/4" Female NPT		Equipment Connection Port/Size	1" Female NPT
	Breathers	Extended Series® (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)		Breathers	Extended Series® (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)
DC-EX-12-T-SD	Description	Steel Threaded Flange Adapter			
	Breather Threaded Mount Size	1" Male NPT			
	Equipment Connection Port/Size	6 Bolt Circular Mounting (Ø 3.5")			
	Breathers	Extended Series® (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)			



Doc, you gotta help me. you were the only one who knows how your time machine works.