

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

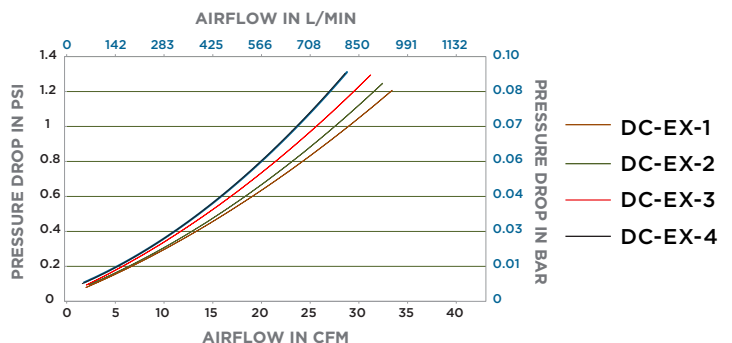
important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.

## 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:

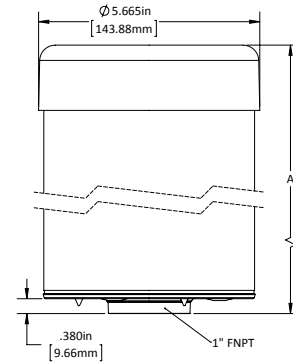
- Storage Tanks
- Wind Turbines
- Large Gearboxes
- Remote Applications

### Typical Industries:

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

## DIMENSIONS

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



## ADAPTERS

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

