

## Standard Series Breathers

Basic protection from moisture and particulate contamination in lubricant and equipment.



### MATERIALS & COMPONENTS:

- Housing:** Polycarbonate, Nylon 6/6 30% Glass Filled, Polypropylene
- Seals (Miniature):** Buna-N, EPDM, PVC
- Seals (Standard):** Buna-N, PVC
- Filter Media:** Polyurethane, Polyester
- Hydrophilic Media:** Silica Gel

### CHEMICAL COMPATIBILITY:

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

### <sup>1</sup>PERFORMANCE SPECIFICATIONS:

| Product Code                                                         | DC-BB                          | DC-1               | DC-2                | DC-3                | DC-4                |
|----------------------------------------------------------------------|--------------------------------|--------------------|---------------------|---------------------|---------------------|
| Temperature Range                                                    | -20°F to 200°F (-29°C to 93°C) |                    |                     |                     |                     |
| Filter Efficiency                                                    | 3 μm absolute                  |                    |                     |                     |                     |
| Amount of Desiccant                                                  | .1 lbs (59 g)                  | .3 lbs (127 g)     | .8 lbs (299 g)      | 1.4 lbs (553 g)     | 2.0 lbs (853 g)     |
| Water Adsorption Capacity<br>(Maximum Water Retention)               | .8 fl oz (23 ml)               | 1.7 fl oz (50 ml)  | 5 fl oz (144 ml)    | 9 fl oz (253 ml)    | 12 fl oz (359 ml)   |
| Color Indication                                                     | Blue to Pink                   |                    |                     |                     |                     |
| ²Application Sizing Recommendations                                  |                                |                    |                     |                     |                     |
| Max. Airflow at ΔP 1 psi<br>[.07 bar]                                | 5 cfm (141 l/min)              | 4 cfm (113 l/min)  | 16 cfm (453 l/min)  | 16 cfm (453 l/min)  | 16 cfm (453 l/min)  |
| Max Reservoir Fluid Flow or<br>Displacement at ΔP 1 psi<br>[.07 bar] | 34 gpm (129 l/min)             | 31 gpm (118 l/min) | 120 gpm (453 l/min) | 120 gpm (453 l/min) | 120 gpm (453 l/min) |
| Gearbox, Pump & Storage Tank                                         | 15 gal (57 L)                  | 35 gal (132 L)     | 200 gal (757 L)     | 350 gal (1325 L)    | 500 gal (1893 L)    |
| Hydraulic & Central<br>Lube Reservoir                                | 2 gal (8 L)                    | 5 gal (19 L)       | 60 gal (227 L)      | 100 gal (379 L)     | 200 gal (757 L)     |

<sup>1</sup>**NOTE:** Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances.

<sup>2</sup>**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.

### Typical Applications:

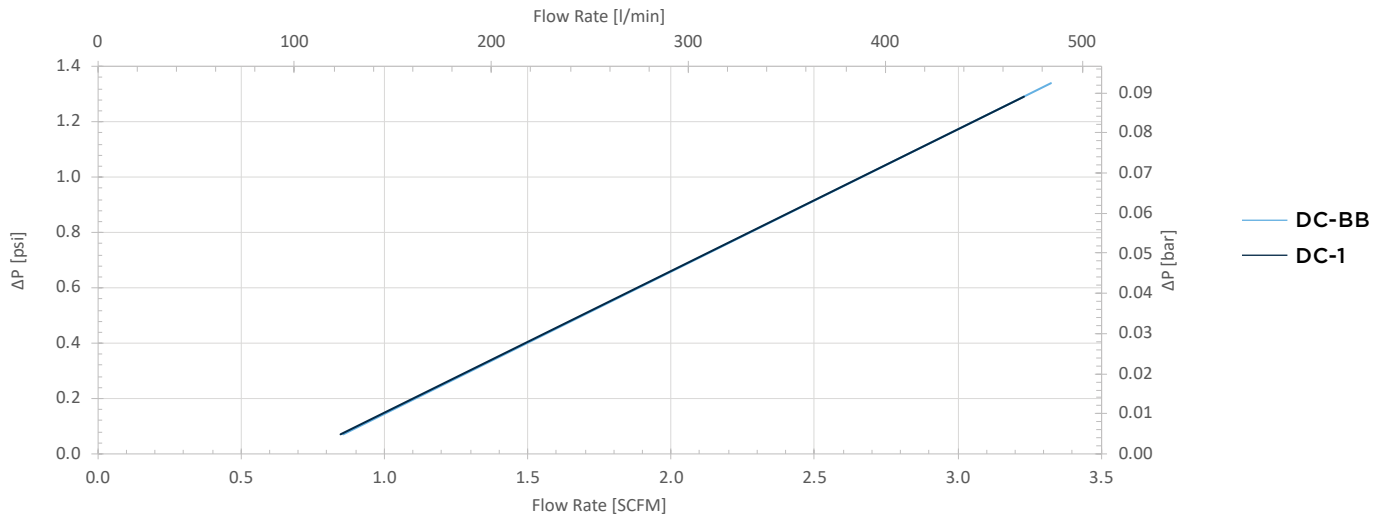
- Totes / Drums
- Storage Tanks
- Wind Turbine
- Transformers

### Typical Industries:

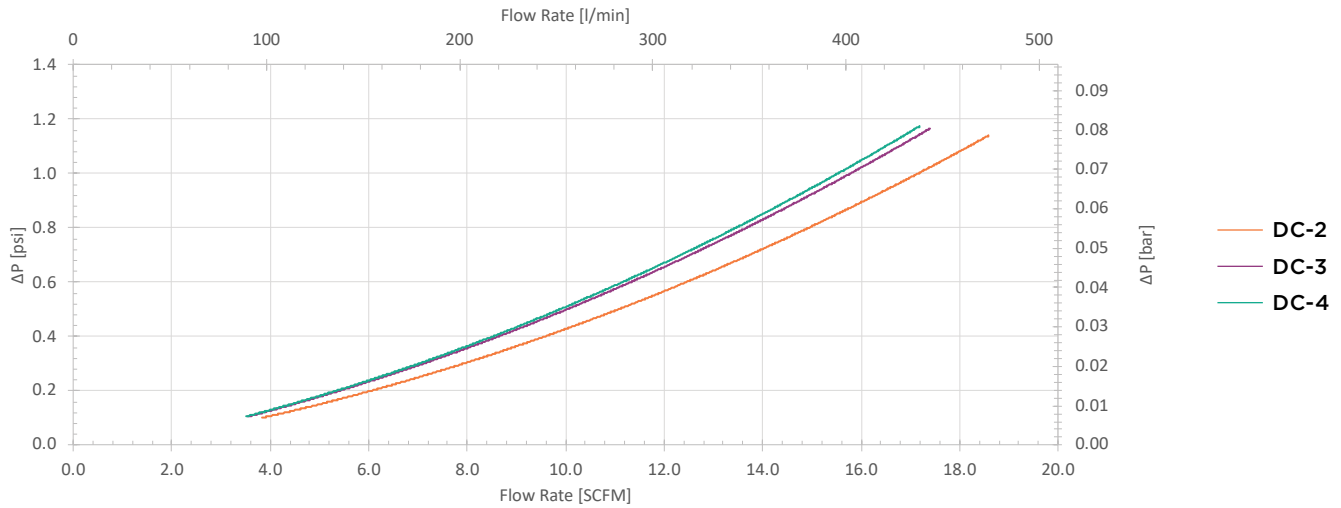
- Manufacturing
- Automotive
- Power Generation & Distribution
- Wind

## AIRFLOW:

## MINIATURE



## STANDARD



## DIMENSIONS:

|                    | Style                                                                                            | A          | B         | C         |
|--------------------|--------------------------------------------------------------------------------------------------|------------|-----------|-----------|
| Part Code          | Miniature or Standard                                                                            | Inch / mm  | Inch / mm | Inch / mm |
| DC-BB              | Miniature                                                                                        | 3.9 / 98   | 3.4 / 87  | 2.5 / 64  |
| DC-1               | Miniature                                                                                        | 5.4 / 136  | 4.9 / 125 | 2.5 / 64  |
| DC-2               | Standard                                                                                         | 6.0 / 152  | 5.3 / 135 | 4.1 / 104 |
| DC-3               | Standard                                                                                         | 8.0 / 203  | 7.3 / 186 | 4.1 / 104 |
| DC-4               | Standard                                                                                         | 10.0 / 254 | 9.3 / 237 | 4.1 / 104 |
| <b>Thread Size</b> |                                                                                                  |            |           |           |
| <b>MINIATURE</b>   | 3/8" Multi-Fit Male Thread with O-Ring Seal, Compatible with:<br>3/8" NPT; 3/8" BSPT; 3/8" BSPP  |            |           |           |
| <b>STANDARD</b>    | 1" Multi-Fit Male Thread with O-Ring Seal, Compatible with:<br>1" NPT; 1" NPSM; 1" BSPT; 1" BSPP |            |           |           |

