

## VentGuard™ Series Breathers

Check-valve technology that isolates the system and only ‘breathes’ when necessary, making them an ideal solution to protect low-medium flow applications with intermittent operations.



### MATERIALS & COMPONENTS:

- **Housing:** Polycarbonate, Nylon 6/6 30% Glass Filled, Polypropylene
- **Seals & Valves (Miniature):** Buna-N, EPDM, PVC, Silicone
- **Seals & Valves (Standard):** Buna-N, PVC, Silicone
- **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-VG-BB	DC-VG-1	DC-VG-2	DC-VG-3	DC-VG-4
<b>Temperature Range</b>	-20°F to 200°F (-29°C to 93°C)				
<b>Filter Efficiency</b>	3 µm absolute				
<b>Check Valve Cracking Pressure</b>	.1 psi (.007 bar)				
<b>Amount of Desiccant</b>	.1 lbs (59 g)	.3 lbs (127 g)	.8 lbs (299 g)	1.4 lbs (553 g)	2.0 lbs (853 g)
<b>Water Adsorption Capacity (Maximum Water Retention)</b>	.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)
<b>Color Indication</b>	Blue to Pink				
<b><sup>2</sup>Application Sizing Recommendations</b>					
<b>Max. Airflow at ΔP 1 psi [.07 bar]</b>	1 cfm (141 l/min)	1 cfm (113 l/min)	12 cfm (453 l/min)	11 cfm (453 l/min)	11 cfm (453 l/min)
<b>Max Reservoir Fluid Flow or Displacement at ΔP 1 psi [.07 bar]</b>	11 gpm (41 l/min)	11 gpm (41 l/min)	90 gpm (340 l/min)	82 gpm (311 l/min)	75 gpm (283 l/min)
<b>Gearbox, Pump &amp; Storage Tank</b>	15 gal (57 L)	35 gal (132 L)	200 gal (757 L)	350 gal (1325 L)	500 gal (1893 L)
<b>Hydraulic &amp; Central Lube Reservoir</b>	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:

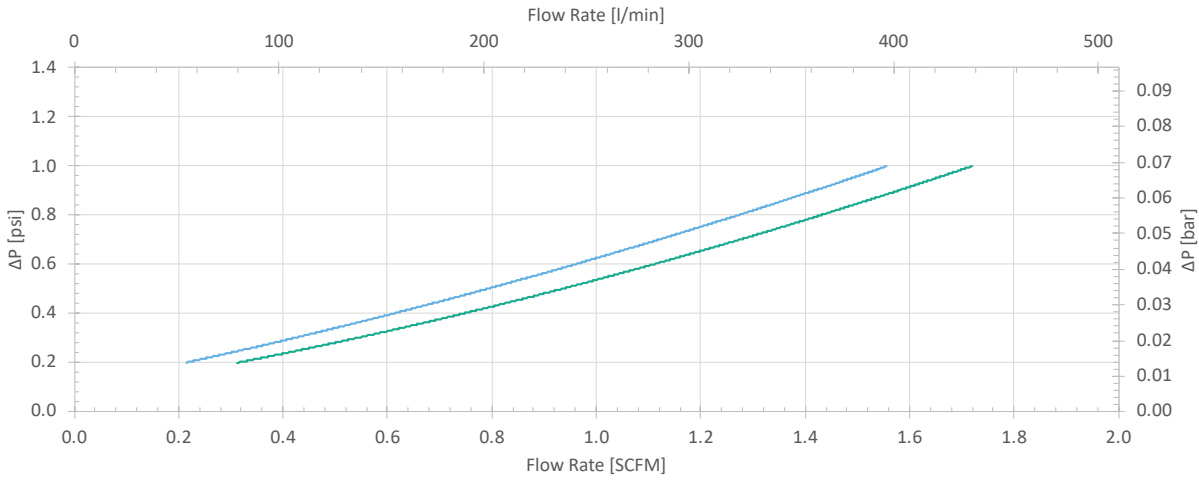
- Gearbox
- Pump
- Hydraulics

### Typical Industries:

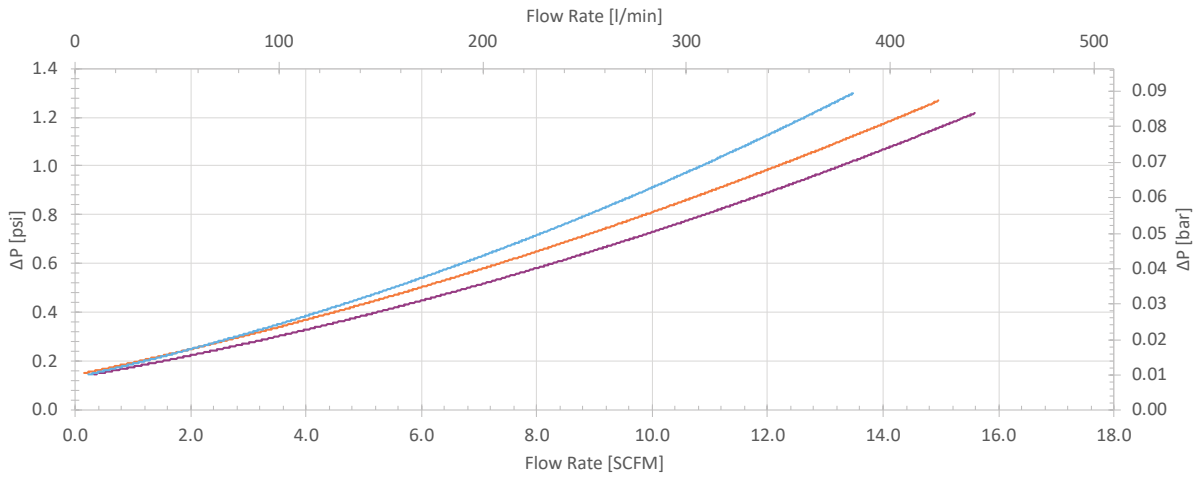
- Pulp & Paper
- Forestry & Building Products
- Food & Beverage
- Steel & Aluminum

### AIRFLOW:

### MINIATURE



### STANDARD



### DIMENSIONS:

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

