

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)

PERFORMANCE SPECIFICATIONS:

Product Code	DC-VG-BB	DC-VG-1	DC-VG-2	DC-VG-3	DC-VG-4
Temperature Range	-20°F to 200°F (-29°C to 93°C)				
Filter Efficiency	3 µm absolute				
Check Valve Cracking Pressure	.1 psi (.007 bar)				
Amount of Desiccant	.1 lbs (59 g)	.3 lbs (127 g)	.8 lbs (365 g)	1.4 lbs (643 g)	2.0 lbs (913 g)
Water Adsorption Capacity (Maximum Water Retention)	.8 fl oz (23 ml)	1.7 fl oz (50 ml)	5 fl oz (142 ml)	9 fl oz (251 ml)	12 fl oz (356 ml)
Color Indication	Blue to Pink				
²Application Sizing Recommendations					
Max. Airflow at ΔP 1 psi [.07 bar]	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)
Max Reservoir Fluid Flow or Displacement at ΔP 1 psi [.07 bar]	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)
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 Lube Reservoir	2 gal (8 L)	5 gal (19 L)	60 gal (227 L)	100 gal (379 L)	200 gal (757 L)

¹NOTE: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances.

²NOTE: 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:

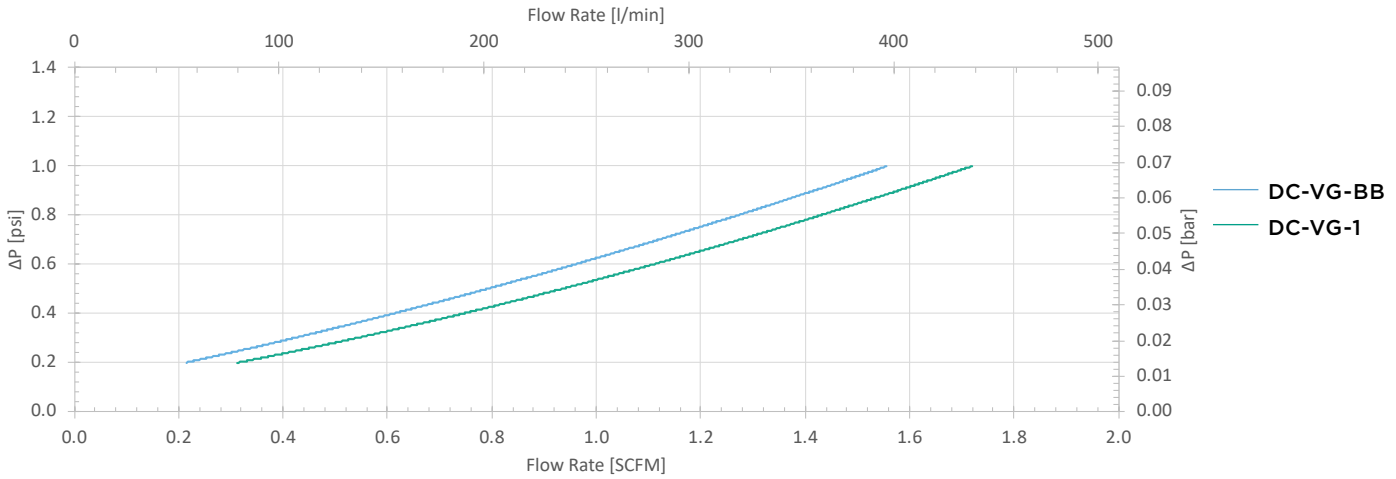
- Gearbox
- Pump
- Hydraulics

Typical Industries:

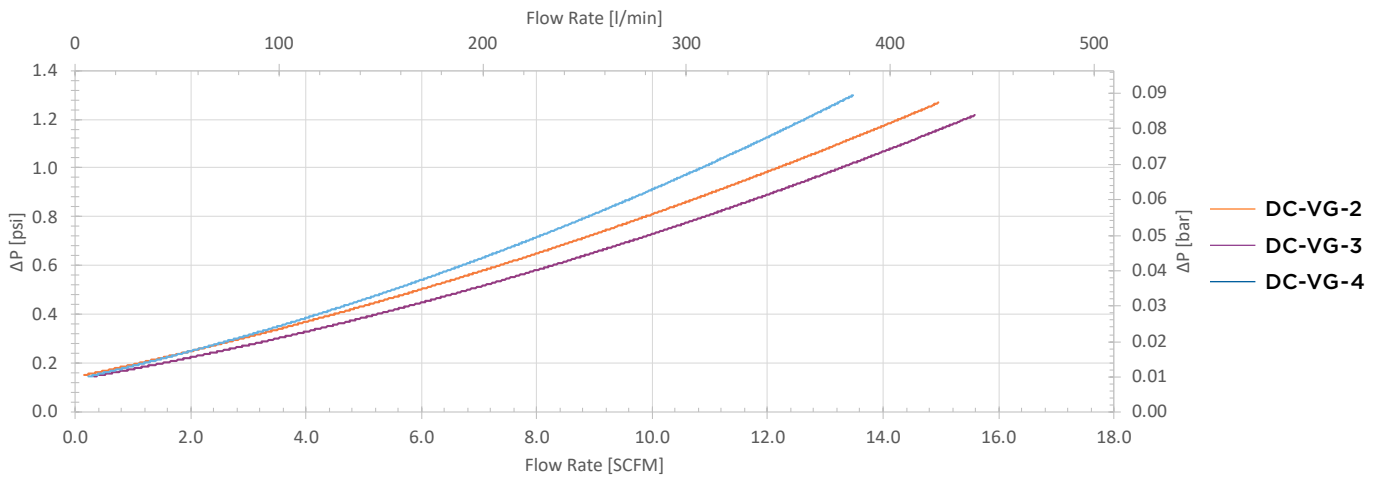
- Pulp & Paper
- Forestry & Building Products
- Food & Beverage
- Steel & Aluminum

AIRFLOW:

MINIATURE



STANDARD



DIMENSIONS:

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

