

## HydroGuard® Series Breathers

Protection from moisture and particulate contamination in low-flow, steady-state operations.



### MATERIALS & COMPONENTS:

- **Housing:** Nylon 6/6 30% Glass Filled, Polycarbonate, Polypropylene, Silicone
- **Seals (DC-HG-1):** Buna-N, EPDM, PVC
- **Seals (DC-HG-8):** Buna-N, PVC
- **Filter Media:** Polyester, Polyurethane
- **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-HG-1	DC-HG-8
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	.3 lbs ( 127 g)	.8 lbs (365 g)
Water Adsorption Capacity (Maximum Water Retention)	2 fl oz (50 ml)	5 fl oz (144 ml)
Color Indication	Blue to Pink	
²Application Sizing Recommendations		
Max. Airflow at ΔP 1 psi [.07 bar]	1 cfm (40 l/min)	14 cfm (396 l/min)
Max Reservoir Fluid Flow or Displacement at ΔP 1 psi [.07 bar]	11 gpm (40 l/min)	87 gpm (396 l/min)
Gearbox, Pump & Storage Tank	50 gal (189 L)	400 gal (1514 L)
Hydraulic & Central Lube Reservoir	N/A	55 gal (208 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.

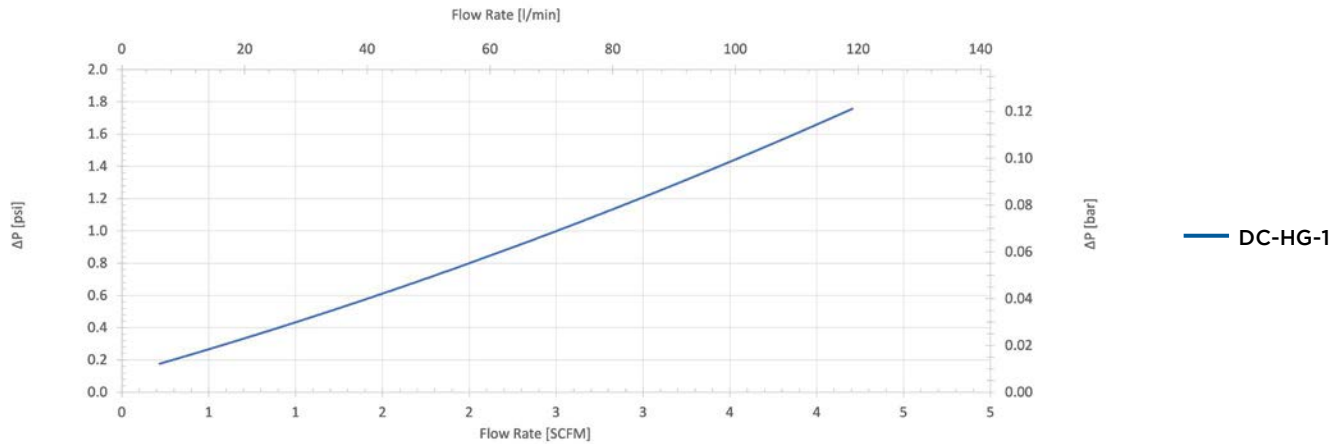
### Typical Applications:

- Totes / Drums
- Transformers
- Gearboxes
- High Humidity
- Wash Downs
- Low Flow Applications
- Storage Tanks
- Hydraulics
- Steady-State Operations

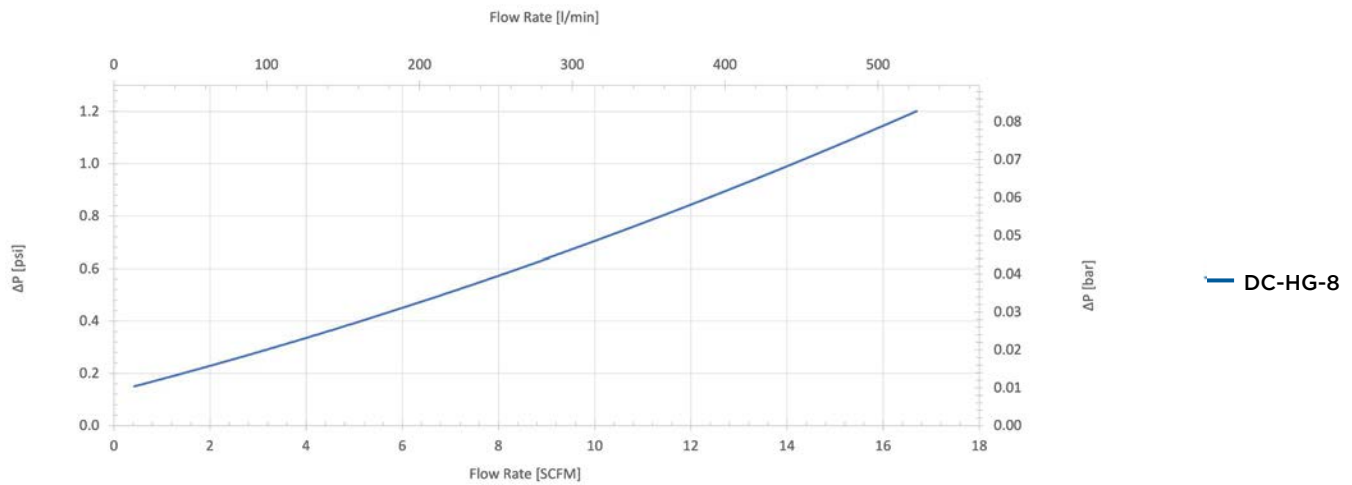
### Typical Industries:

- Pulp & Paper
- Petrochemical
- Storage
- Manufacturing
- Power Generation

## AIRFLOW: MINIATURE



## STANDARD



## DIMENSIONS:

	Style	A	B	C
Part Code	Miniature or Standard	Inch / mm	Inch / mm	Inch / mm
DC-HG-1	Miniature	7.2 / 182	6.7 / 171	2.5 / 64
DC-HG-8	Standard	9.7 / 247	9.1 / 230	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			

