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
- Seals (DC-HG-8): Buna-N
- 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)

COMPLIANCE:

All models are REACH compliant.

[1]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)	1.7 fl oz (50 ml)	5 fl oz (144 ml)
Color Indication	Blue to Pink	
[2]Application 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)	105 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)

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

[2]**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

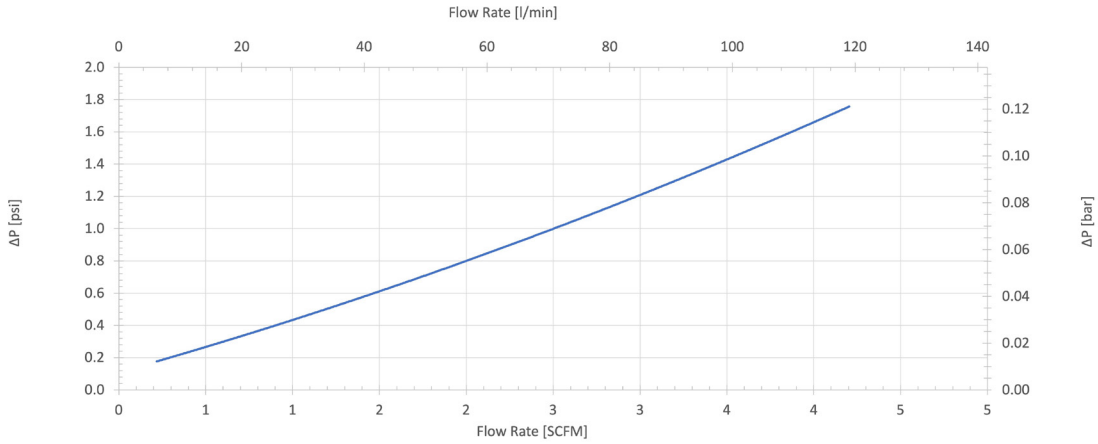
Typical Industries:

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

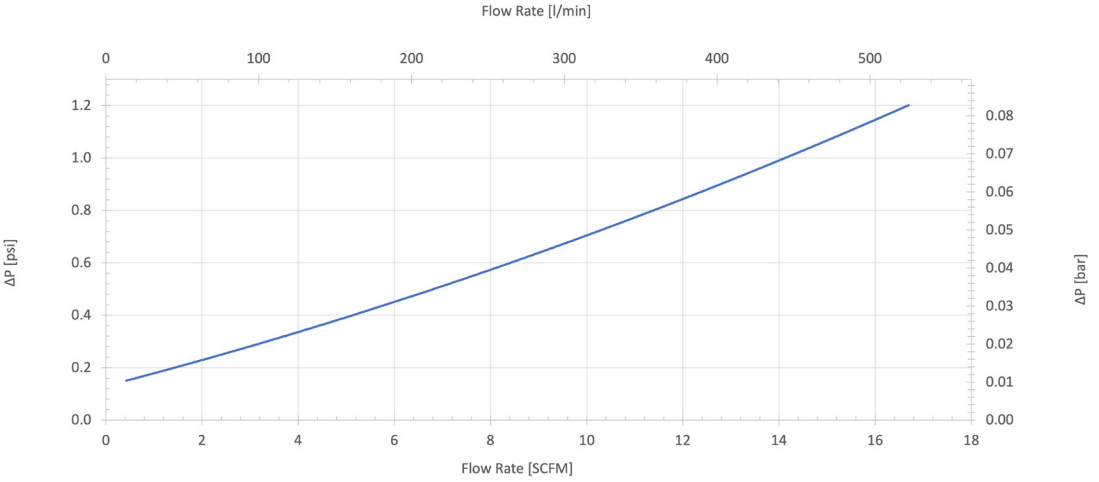
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AIRFLOW: MINIATURE

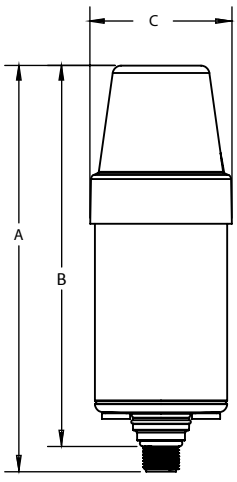


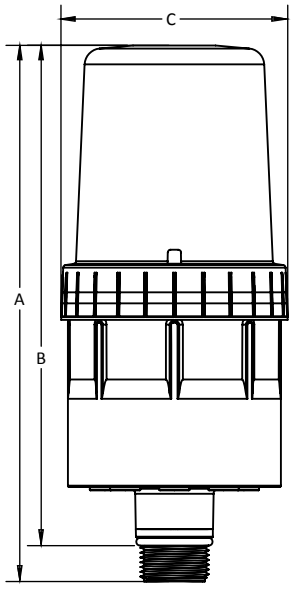
STANDARD



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			





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