



Miniature Hybrid Breathers

For specialty applications

Specifications

- Expansion chamber and internal check valve system create a nearly sealed system
- Integrated nylon standpipe and clear polycarbonate casing allow for greater chemical compatibility and vibration resistance
- 3- μ absolute particulate filter element

Ideal for ...

- Small gearboxes
- Washdowns
- High-humidity applications



Benefits

- Eliminates rust-forming condensation
- Prevents sludge deposits and water-contaminated oil
- Provides longer oil and filter life
- Reduces wear and tear on equipment, prolongs life

From the expansion chamber system to the check valves, every element of Des-Case's patented Hydroguard™ hybrid breather has been designed to stand up to a wide variety of industries and applications.

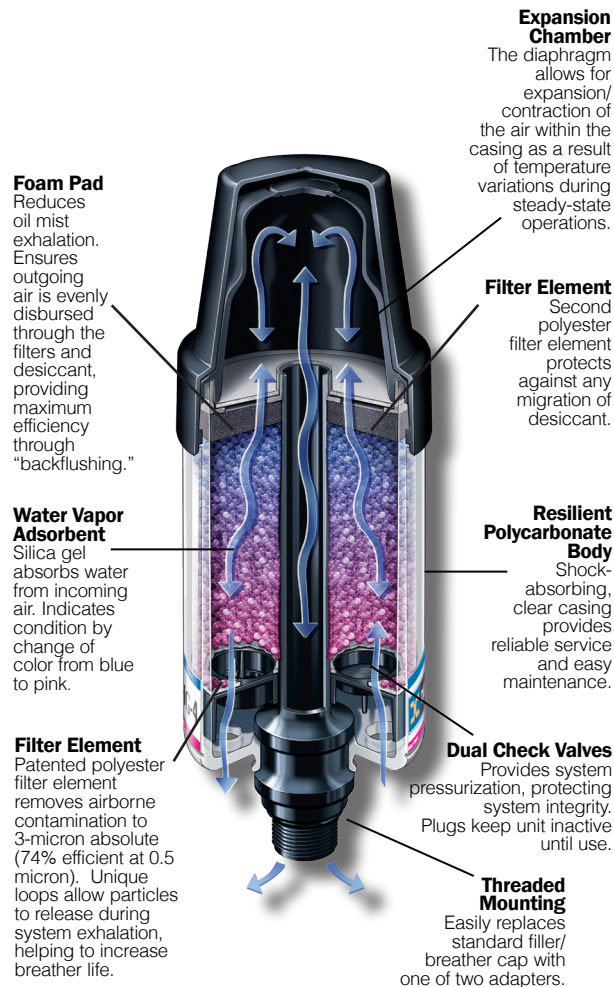
The breather is outfitted with an expansion chamber to isolate lubricants from all levels of ambient humidity. A clear, rugged polycarbonate casing allows for viewing desiccant as it changes color, indicating that the breather should be replaced. Check valves ensure no excess pressure/vacuum builds.

Des-Case hybrid breathers attack the source of contamination, allowing your equipment and lubricants to run longer and harder.



Keeping contamination under control.®

How it works:



As wet, dirty air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulate and the color-indicating silica gel extracts moisture. The diaphragm allows for expansion/contraction of the air within the casing as a result of temperature variations during steady-state operations (DC-HG-1 only). When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere. The hygroscopic agent is partially reactivated by the dry air passing back through.

Model Number	DC-VG-1	DC-HG-1*
Unit Height	5.316" / 135 mm	7.2" / 183 mm
Unit Diameter	2.53" / 65 mm	2.53" / 65 mm
Amount of Silica gel (oz./g)	4.43 oz / 125.5 g	4.43 oz / 125.5 g
Adsorption Capacity (fl. oz./mL)	1.7 fl. oz. / 50.3 mL	1.7 fl. oz. / 50.3 mL
Max. Flow Rate	(cfm) 1.51 @ 1 PSID (lpm) 42.76	1.51 @ 1 PSID 42.76
Filtration (μ absolute)	3	3
Op. Temp. Range ($^{\circ}$ F/ $^{\circ}$ C)	-20/-28.9 to 200/93	-20/-28.9 to 200/93
Hydrophilic Agent	Silica Gel	Silica Gel
Filter Media	Polyester	Polyester
Connection Size	3/8" (NPT)	3/8" (NPT)

*Replaces DC-VG-4.

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