

## *Hydroguard™ Hybrid Breathers*

For low-flow 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
- Filter element captures particles at 3 micron absolute ( $\beta_3 \geq 200$ )

### *Ideal for ...*

- Gearboxes
- 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

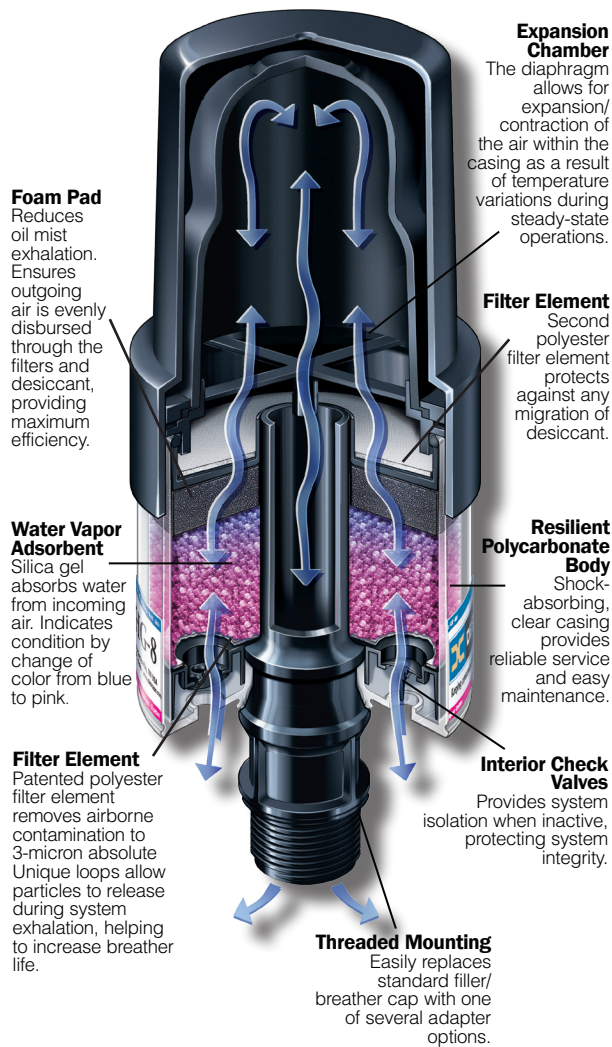
From the expansion chamber system to the check valves, every element of Des-Case's patented Hydroguard™ hybrid breather has been designed to stand up to a wide variety of industries and applications.

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, contaminated 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.

When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere. The hydrophilic agent is partially reactivated by the dry air passing back through.

Product Specifications		DC-HG-1	DC-HG-8
Unit Height		7.22" / 183 mm	9.75" / 247.6 mm
Unit Diameter		2.52" / 64 mm	4.1" / 104.1 mm
Shipping Weight (unit/case)		0.58 lbs. / 3.75 lbs. 0.26 kg / 1.7 kg	1.81 lbs. / 11 lbs. 0.82 kg / 4.92 kg
Amount of Silica gel (oz./g)		0.28 lbs. / 125.1 g	0.65 lbs. / 0.24 kg
Adsorption Capacity (fl. oz./mL)		1.68 fl. oz. / 49.6 mL	4.05 fl. oz. / 120 mL
Max. Flow Rate	(cfm)	1.41 @ 1 psid	2.5 @ 1 psid
	(lpm)	39.93	70.5
Filtration		3 $\mu$ absolute ( $\beta_3 > 200$ )	3 $\mu$ absolute ( $\beta_3 > 200$ )
Operating Temp. Range		-20°F to 200°F / -29°C to 93°C	-20°F to 200°F / -29°C to 93°C
Hydrophilic Agent		Silica gel	Silica gel
Filter Media		Polyester	Polyester
Connection Size		3/8" Multi-fit (NPT, BSP, BSPT)	1" Multi-fit (NPT, NPSM, BSPT)
Body Material		Polycarbonate, Nylon, Polypropylene, Polyester, Polyurethane, Buna-N, PVC	
Expansion Chamber Volume		1.935 in <sup>3</sup>	15.66 in <sup>3</sup>

## Adapters

Des-Case provides a range of accessories for easy adaptation to your specific application and working environment. Contact us at (615) 672-8800 or at [sales@descase.com](mailto:sales@descase.com) to learn more.

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