

## Extreme Duty Breathers

Ideal for harsh environments

### Specifications

- Automotive grade housing and solid standpipe design offer increased vibration resistance and temperature range
- Three layers of protection to 0.3 micron absolute
- Internal check valve system

### Ideal for ...

- Harsh environments
- Mobile equipment
- Nautical 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

Every element of Des-Case's Extreme Duty Disposable Breathers has been designed to take contamination control to a whole new level, standing up to a wide variety of applications in challenging environments.

The breather is outfitted with a rugged housing and an integrated standpipe, allowing for decreased oil misting while offering improved vibration resistance. Visual indicator windows show the desiccant as it changes color, indicating that the breather should be replaced. Check valves keep out ambient humidity while the system is at rest.

Des-Case extreme-duty breathers attack the cause of contamination, keeping dirt and water where it belongs – out of your equipment.

**Keeping contamination under control.®**

## How it works:

As wet, contaminated air is drawn through the unit, multiple 0.3 micron filter elements remove solid particulate and the color-indicating silica gel extracts moisture. 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.

### Filter Element

Second particulate filter element protects against migration of desiccant.

### Visual Indicator

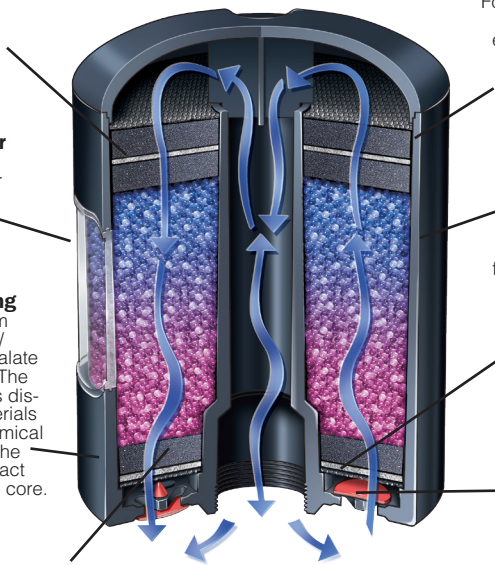
Windows on two sides of breather allow for easy monitoring of desiccant.

### Rugged Housing

Constructed from a polycarbonate/polybutylteraphtalate (PC/PBT) alloy. The molding process distributes the materials to maximize chemical compatibility at the surface and impact resistance at the core.

### Foam Pad

Captures any oil mist and disperses incoming air evenly over filtration and drying areas.



**Foam Pad**  
Foam filter reduces oil mist during exhalation, evenly distributes air.

**Water Vapor Adsorbent**  
Color indicating silica gel adsorbs water from incoming air. Replace when color changes from blue to pink.

**Filter Element**  
Removes airborne contamination to 0.3-micron absolute. Stops free water.

**Quad Check Valves**  
Provides system pressurization, protecting system integrity and extending product life.

Product Specifications		DC-XD-6
Unit Height		6.51" / 165.4 mm
Unit Diameter		5.1" / 129.5 mm
Shipping Weight (unit/case)		3.03 lbs. / 19.97 lbs. 1.37 kg / 9.06 kg
Amount of Silica Gel		1.75 lbs. / 0.79 kg
Adsorption Capacity		10.65 fl. oz. / 315 mL
Max. Flow Rate	(cfm)	16 @ 1 PSID
	(lpm)	456
Filtration		0.3µ absolute ( $\beta_{0.3} > 200$ )
Operating Temp. Range		-40°F to 300°F -40°C to 148.89°C
Hydrophilic Agent		Silica gel
Filter Media		ePTFE
Connection Size		1 1/2" x 16 UN female thread
Body Material		Polycarbonate/Polybutylteraphtalate (PC/PBT), Polytetrafluoroethylene, Aluminum, Polyurethane, Polycarbonate

## 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.

### Extreme Duty Breather Adapters

Adapter Part Number	Description	Application Connection Type/Size Number
DC-DSA-17	Connects Extreme Duty Breather to a 1 1/2" x 16 UN male threaded connection.	3/4" Threaded Female
DC-DSA-10	Connects Extreme Duty Breather to a 1 1/2" x 16 UN male threaded connection.	1" Threaded Female
DC-XDVA-12M	Vent Valve Adapter connects Extreme Duty Breather to a 1 1/2" x 16 UN male threaded connection.	3/4" Threaded Female
DC-XDVA-16M	Vent Valve Adapter connects Extreme Duty Breather to a 1 1/2" x 16 UN male threaded connection.	1" Threaded Female

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