

# Extreme Duty Breathers

Ideal for harsh environments



## Overview

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.

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

## Benefits of Des-Case Breathers

- 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
- Helps reduce operating costs due to repair parts, labor costs, and production downtime
- Allows optimum performance and ongoing reliability of industrial machinery

## Extreme Duty Breather Features

- Automotive grade housing and solid standpipe design offer increased vibration resistance and temperature range
- Three layers of protection to 0.3 $\mu$
- Water-blocking filter media prevents free water from entering breather
- Clear windows for easy system monitoring
- Color-indicating silica gel changes from blue to pink when breather needs replacing
- Check valve system extends product life even further



Keeping contamination under control.®

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**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/polyester (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.

Model Number	DC-XD6
Unit Height	6.51" / 16.54 cm
Unit Diameter	5.1" / 12.95 cm
Amount of Silica gel (oz./g)	1 lb. 12 oz. / 790 g
Adsorption Capacity (fl. oz./mL)	10.72 fl. oz. / 315 mL
Op. Temp. Range (°F/°C)	-40/-40 to 300/148.89
Hydrophilic Agent	Silica Gel
Filter Media	ePTFE
Body Material	Polycarbonate / Polybutylene Terephthalate
Maximum Flow Rate	16 cfm @ 1 PSID
Shipping Weight (unit/case)	3.2 lbs. / 20 lbs.
Connection Size	1 1/2" x 16 UN female thread

## How It Works

As wet, dirty air is drawn through the unit, multiple 0.3-micron polyester 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 hygroscopic agent is partially reactivated by the dry air passing back through.

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.



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