



Specialty Filtration Products for Lubricants Protection



www.descase.com

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What is a desiccant breather?

The desiccant breather replaces the standard dust cap or OEM breather cap on equipment, offering better filtration to protect against even the smallest particulates that destroy the effectiveness of your machinery, and cause downtime and costly repairs. As air is drawn into equipment through the breather, the layered desiccant filter elements remove particulate while the desiccant beads strip harmful moisture. While in service or during shut-down, the desiccant beads attract moisture from inside the equipment reservoir, actively drying the equipment.

Benefits

Des-Case breathers simultaneously remove moisture from the headspace of equipment with silica gel and prevent even the smallest particles from entering your oil tanks with multi-layer filtration. The best part is you'll see a return on investment almost immediately. With fewer breakdowns and production stoppages, you'll run more efficiently and create less waste, all while increasing the working life of your lubricants and equipment



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Standard Series Breathers

Standard breathers provide simple, yet dependable protection from moisture and particulate contamination in lubricants and equipment. These versatile breathers are five times more effective than leading non-desiccant breathers, providing optimal defense against humidity for your application

APPLICATIONS

- Totes
- Transformers
- Storage drums
- Hydraulics

OPERATING ENVIROMENTS

- General use
- Lubricant Storage Rooms
- Indoors
- Cold Weather Environments



Extended Series Breathers

Extended series (EX) breathers combine the trusted materials and design of our Standard breathers with the check-valves of our VentGuard and HydroGuard breathers, plus a new honey-comb technology oil mist reducing feature, higher air flows, and more than double the desiccant

APPLICATIONS

- Storage tanks
- Wind turbines
- Large Gearboxes/hydraulics
- Oil misting
- Remote applications

OPERATING ENVIROMENTS

- High Humidity
- Washdowns



Extreme Duty Breathers

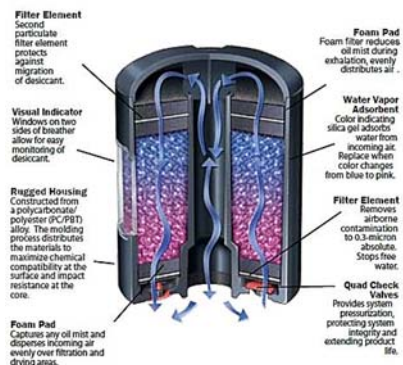
The extreme duty (XD) breather has excellent vibration and impact resistance, can withstand broad temperature ranges, has expansive chemical compatibility, and features quality check valve technology while still accommodating higher air flow. The XD breather also has the best filter efficiency of our entire breather line capturing particles down to 0.3µ absolute (β_{0.3}≥200)

APPLICATIONS

- Harsh Environments
- Mobile & Off-Road Equipment
- Hydraulics
- Wash Downs
- High Vibration/Impact
- Nautical Applications

OPERATING ENVIROMENTS

- Harsh Environments
- High Vibration/Impact
- Washdowns



Model Number	DC-XD6
Unit Height	6.51" / 165.4 mm
Unit Diameter	5.1" / 129.5 mm
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° to 300° / -48.9° to 148.9°
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. 1.45 kg / 9.07 kg
Connection Size	1 1/4" x 16 UN female thread

HydroGuard® Breathers

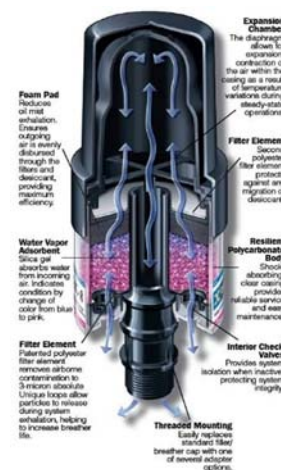
HydroGuard® breathers uniquely feature an expansion chamber and internal check valves that create a nearly-sealed system. Designed specifically for steady-state operations with minimal temperature fluctuations, these breathers provide excellent protection in continuous duty applications.

APPLICATIONS

- Gearboxes
- Mixers/Agitators
- Cooling Towers
- Low Flow Applications

OPERATING ENVIROMENTS

- Steady-State Operations
- High Humidity
- Washdowns



Product Specifications	DC-HG-1	DC-HG8
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) 39.93	2.5 @ 1 psid 70.5
Filtration	3µ absolute (β _{0.3} >200)	3µ absolute (β _{0.3} >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 in³	15.66 in³

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BREATHERS

VentGuard™ Breathers

VentGuard (VG) breathers have check-valve technology that isolates the system and only 'breathes' when necessary, making them an ideal solution to protect low-flow applications with intermittent operations. Check valves provides slight system pressurization that allows for controlled breathing without excessive pressure build-up. This control mechanism prevents premature saturation of the silica gel and extends breather life

APPLICATIONS

- Gearboxes
- Pumps
- Hydraulics Power Units
- Conveying System
- Low-Flow Applications

OPERATING ENVIROMENTS

- Intermittent Operations
- High Humidity
- Washdowns



BREATHERS

Rebuildable Steel Breathers

Rebuildable Steel (RS) breathers were designed specifically for applications, such as bulk storage tanks or large circulating lube oil systems, where there are very high temperatures, extremely polluted air, or a corrosive environment. They are ruggedly designed, with housings of powder-coated carbon steel or stainless steel. Rebuildable Steel breathers accommodate large air flow rates with minimal pressure drops.

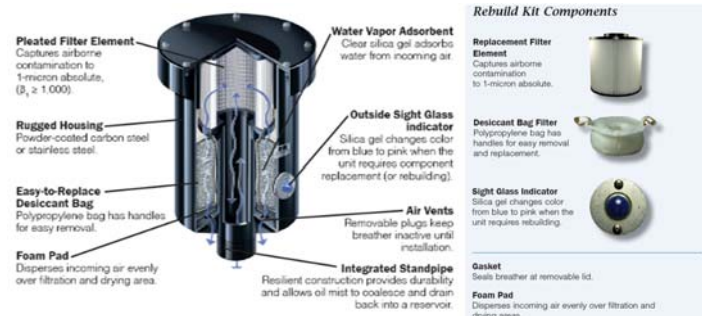
Rebuild kit includes desiccant bags, microglass filter, sight glass, gaskets, and foam

APPLICATIONS

- Bulk Storage
- Diesel Tank Storage
- High Flow Applications
- Large Hydraulic Reservoirs
- Chemical Tanks

OPERATING ENVIROMENTS

- Harsh Environments
- Harsh Chemicals
- High Temperature



BREATHERS

Non-Desiccant Breathers

Non-Desiccant breathers prevent contamination ingress in low humidity environments or in applications where water-based fluids are in use (e.g. water glycol hydraulic fluid). They help to prevent contamination by preventing free water as well as particles down to 1 micron from getting into the reservoir.

APPLICATIONS

- Oil Misting
- Water-Based Fluids
- Oil Sight Fluids
- Gear drives
- Casting Hydraulics

OPERATING ENVIROMENTS

- Low Humidity
- Arid Environments
- High Dust



BREATHERS

Customized Desiccant Breathers

• ORANGE SILICA GEL

Silica gel is the most efficient and economic moisture adsorbent for general applications. Des-Case offers two types of indicating silica gel, blue-to-pink or orange-to-white.

• MOLECULAR SIEVE

Molecular sieve has high efficiency at low levels of humidity. It is best for drying highly polar alcohols, unsaturated hydrocarbons, and static dehydration of gas.

• ACTIVATED CARBON

Activated carbon is an ideal adsorbent in applications requiring fume mitigation or air purification.

• ACTIVATED ALUMINA

Activated alumina is most effective in removing organic acids, especially those that are larger in size.

• LAYERED (BLUE SILICA GEL & MOLECULAR SIEVE)

Mixing medias such as silica gel and activated carbon are ideal for customers needing to absorb both moisture and fumes simultaneously



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