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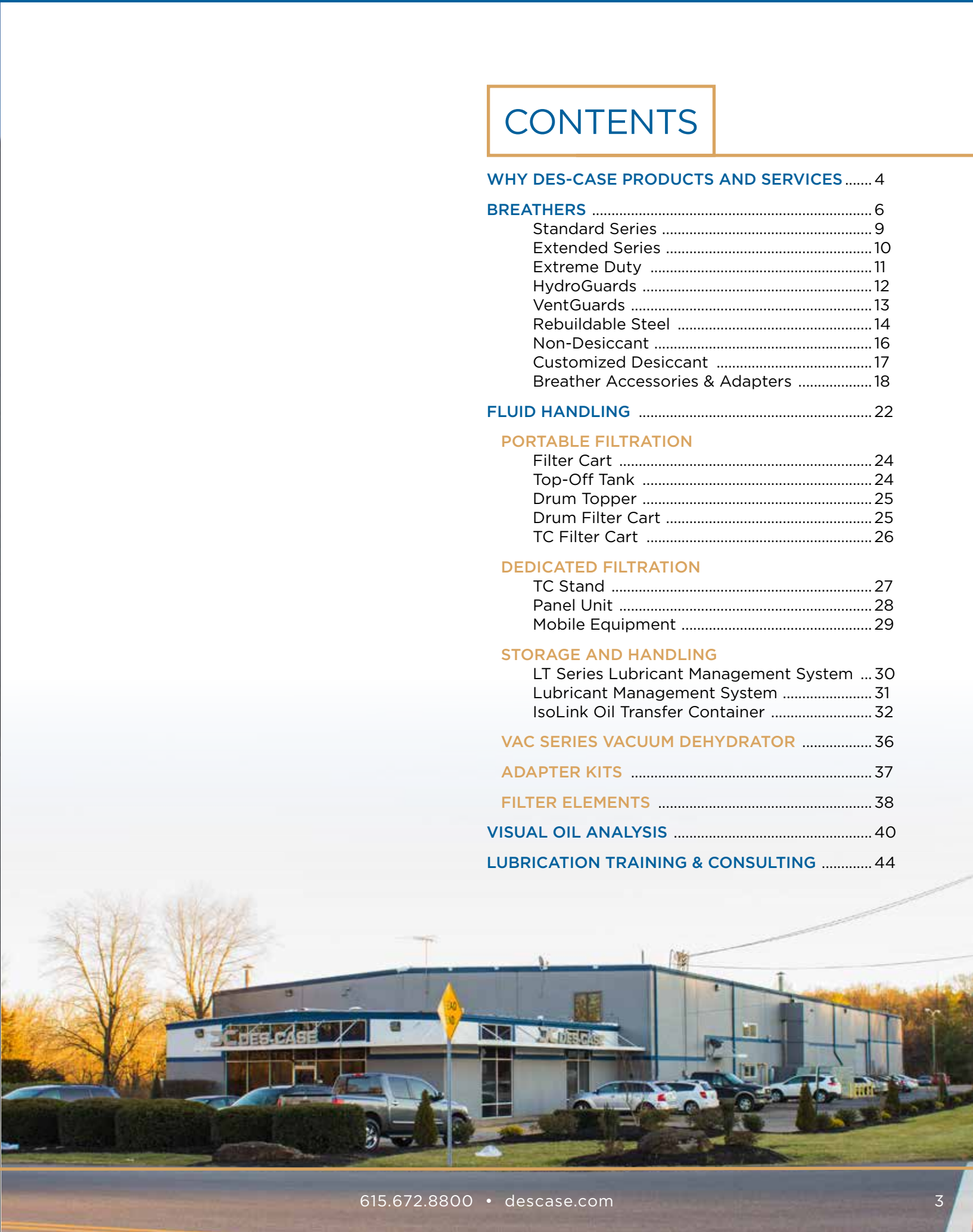
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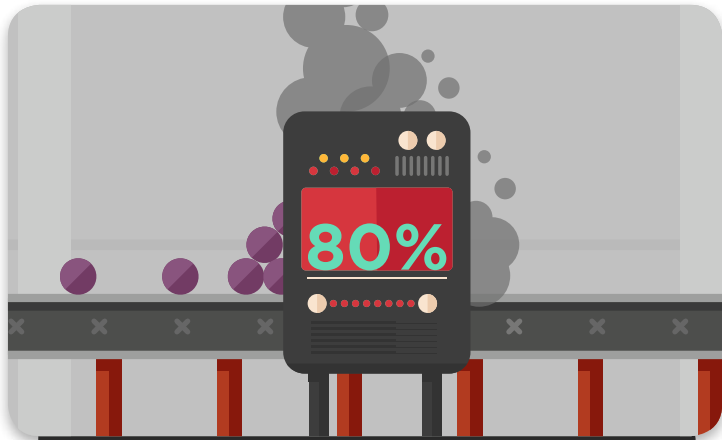




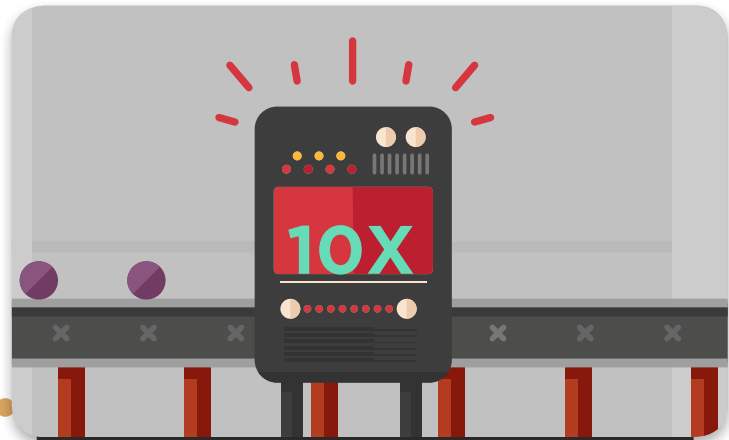
Did you know oil arrives at your facility contaminated with dirt and water...



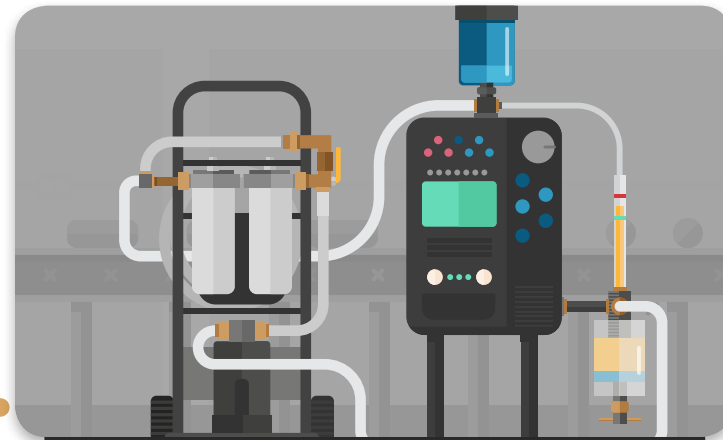
and, a particle as small as 5 microns can bring your plant to a halt?



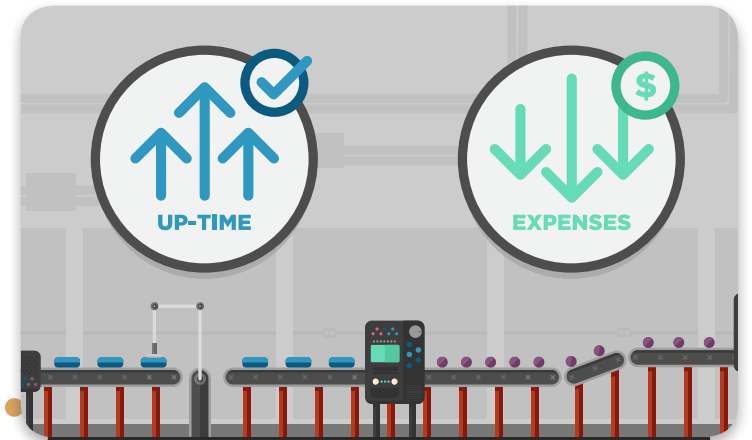
Contamination is responsible for 80% of wear that leads to mechanical failure.



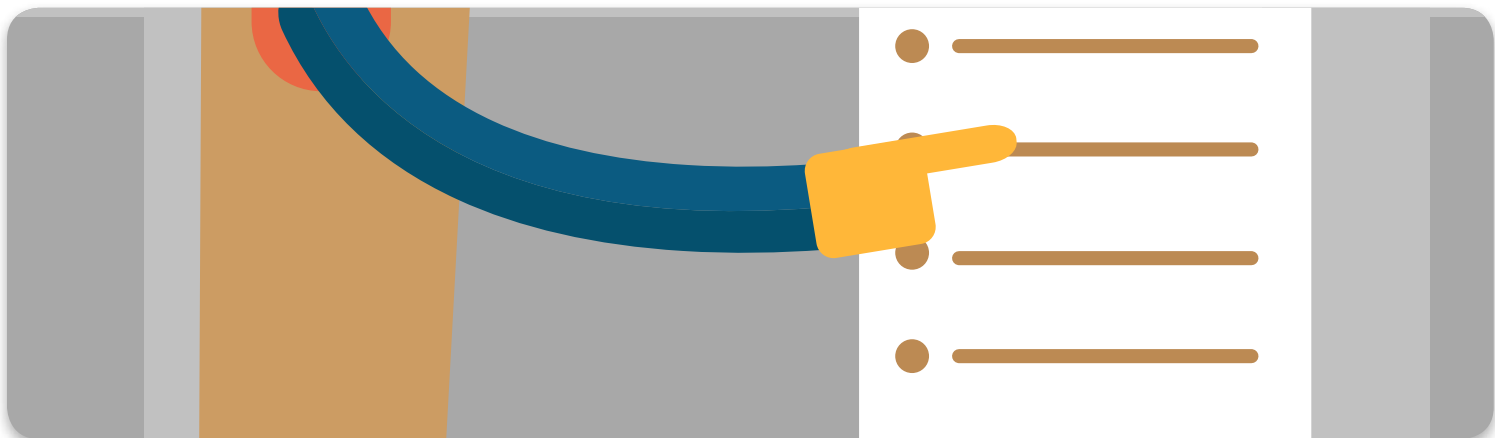
The cost of removing contamination is 10X the cost of preventing it.



So, protect and clean your lubricants at every critical point with Des-Case's wide array of products.



Giving you more uptime and less repair.



Not sure where to start? Our training and consulting team has you covered with practical, real-world advice and tools that can be implemented quickly.



Turn this page if you want to protect your most important assets . . . your oil and equipment.

# The First Line of Defense Against Contamination

As your industrial equipment heats up and cools down, it expands and contracts. And in order to keep machinery from building up too much pressure, equipment OEMs include vent caps on the fill port to allow expanded air to escape.



There's only one problem. While they let air out, those simple caps don't prevent small dirt particles and moisture from making their way into the tank, which can damage bearings, gears, and valves by slowly wearing away the critical surfaces. Even worse, moisture - over time - will condense inside your oil reservoir, introducing water to your lubricants and keeping your maintenance team busy.

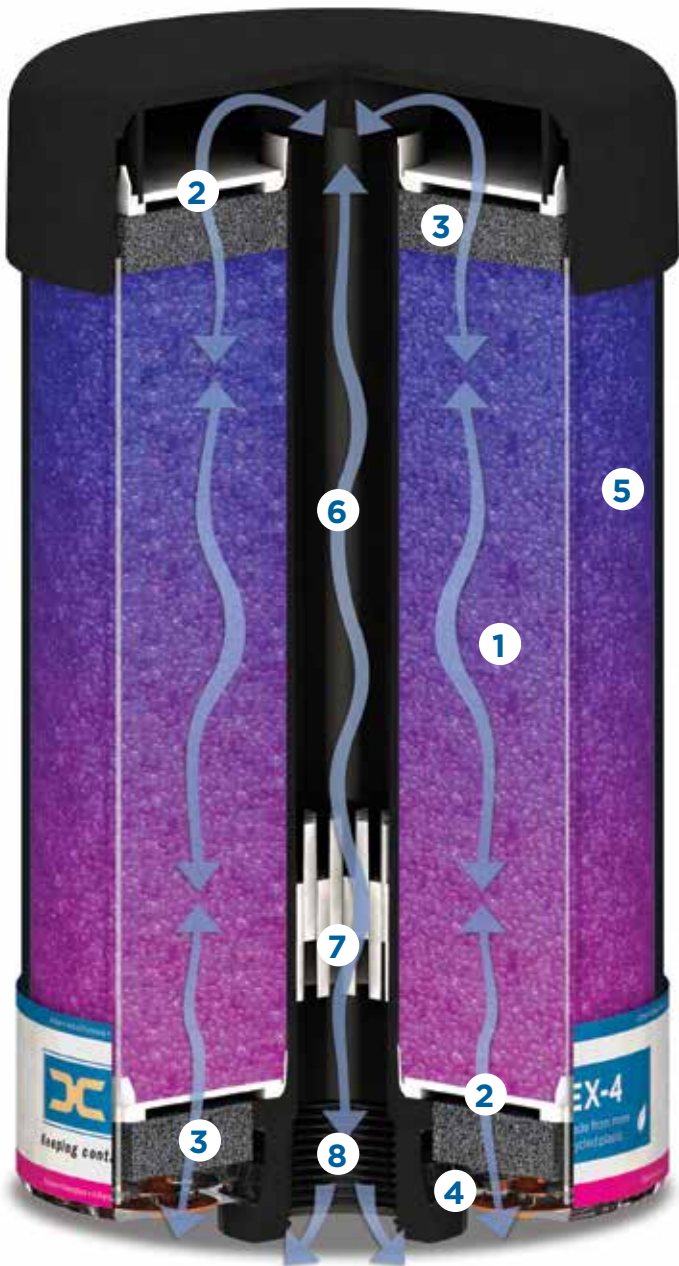
With a wide range of sizes and features for almost any application and industry, Des-Case breathers simultaneously remove moisture from the headspace of equipment with silica gel and prevent even the smallest particles from entering your oil tanks with multi-layer filtration.



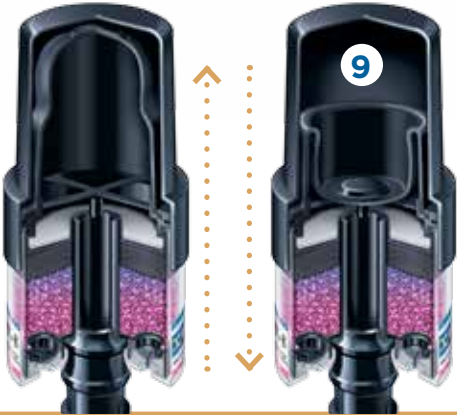
The best part is you'll see a return on investment almost immediately. With fewer breakdowns and production stoppages, you'll run more efficiently and create less waste, all while increasing the working life of your lubricants and equipment.

We're so confident you'll love the results you see when using our breathers that we'll even send you one to try completely free - [descase.com/sample](https://descase.com/sample).

# Explore the Desiccant Breather



- 1 WATER VAPOR ADSORBENT**  
Silica gel adsorbs water from incoming air and can hold up to 40% of its weight. Condition is indicated by change of color from blue to light pink.
- 2 FILTER ELEMENTS**  
Polyester filter elements at the top and bottom of the breather remove airborne contamination. Unique loops allow particles to release during system exhalation, helping increase breather life.
- 3 FOAM PADS**  
Foam filters at the top and bottom of the breather capture oil mist and disperse incoming air evenly over filtration and drying areas.
- 4 CHECK-VALVES**  
High-quality umbrella check-valves that won't clog or stick are located underneath the unit for added protection from wash down environments. Check-valves isolate equipment from ambient condition, prolonging breather life and protecting system integrity. Available in Extended Series, Extreme Duty, VentGuard, and HydroGuard breathers.
- 5 RUGGED HOUSING**  
Shock-absorbing polycarbonate casing provides reliable service and easy maintenance on most breathers. Extreme Duty breathers are constructed from a polycarbonate/polybutylteraphtale alloy for additional strength and chemical compatibility.
- 6 INTEGRATED STANDPIPE**  
The integrated nylon standpipe provides excellent vibration resistance and dissipates impact throughout the unit, eliminating weak points. It also allows even airflow distribution throughout the unit, eliminating inaccurate readings of desiccant saturation.
- 7 HONEYCOMB OIL MIST REDUCER**  
The oil mist reducer is situated inside the standpipe, made from polypropylene for maximum chemical compatibility. Mimicking nature's intricate honeycomb design, this feature allows oil mist to coalesce and drain back into the reservoir, rather than compromising the desiccant. Available in Extended Series breathers.
- 8 THREADED MOUNTING**  
Internal or external threaded mount allows for durability and stability and easily replaces standard breather caps with one of several adapters.
- 9 EXPANSION CHAMBER**  
The expansion chamber and internal diaphragm allows for expansion and contraction of air within the casing as a result of temperature variations during steady-state operations. Available in HydroGuard breathers.







We're so confident you'll love the results you see when using our breathers that we'll even send you one to try completely free!

**Visit [descase.com/sample](https://descase.com/sample) to get yours!**



## BREATHERS

### 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 the leading non-desiccant breathers, providing optimal defense against humidity for your applications.

#### APPLICATIONS:

- Totes
- Transformers
- Storage Drums
- Hydraulics

#### OPERATING ENVIRONMENTS:

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



Product Specifications	DC-BB	DC-1	DC-2	DC-3	DC-4
Unit Height	3.90 in / 99.06 mm	5.31 in / 134.9 mm	6.125 in / 155.6 mm	8.125 in / 206.4 mm	10.125 in / 257.2 mm
Unit Diameter	2.52 in / 64.1 mm	2.52 in / 64.1 mm	4 in / 101.6 mm	4 in / 101.6 mm	4 in / 101.6 mm
Connection Size	3/8" Multi-Fit (NPT, BSPP, BSPT)	3/8" Multi-Fit (NPT, BSPP, BSPT)	1" Multi-Fit (NPT, BSPP, BSPT)	1" Multi-Fit (NPT, BSPP, BSPT)	1" Multi-Fit (NPT, BSPP, BSPT)
Amount of Silica Gel	.13 lbs / 0.058 kg	.28 lbs / 0.127 kg	.66 lbs / 0.30 kg	1.22 lbs / 0.56 kg	1.88 lbs / 0.84 kg
Max. Flow Rate	4.55 @ 1 psid cfm	4.16 @ 1 psid cfm	16 @ 1 psid cfm	16 @ 1 psid cfm	16 @ 1 psid cfm
Filter Efficiency	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)



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 HydrGuard 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 ENVIRONMENTS:

- 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<sub>3</sub>≥200).

APPLICATIONS:

- Mobile & Off-Road Equipment
- Hydraulics
- Nautical Applications
- Truck Differentials

OPERATING ENVIRONMENTS:

- Harsh Environments
- High Vibration/Impact
- Washdowns






Extended Series  
check-valves and  
honeycomb  
oil mist reducer.



Product Specifications	DC-EX-1	DC-EX-2	DC-EX-3	DC-EX-4
Unit Height	4.7 in / 119 mm	6.4 in / 163 mm	8.3 in / 208 mm	10.0 in / 254 mm
Unit Diameter	5.66 in / 143.88 mm	5.66 in / 143.88 mm	5.66 in / 143.88 mm	5.66 in / 143.88 mm
Connection Size	1" Female (FNPT)	1" Female (FNPT)	1" Female (FNPT)	1" Female (FNPT)
Amount of Silica Gel	1.2 lbs / 0.54 kg	2.2 lbs / 1.0 kg	3.2 lbs / 1.45 kg	4.2 lbs / 1.91 kg
Max. Flow Rate	27 @ 1 psid	26 @ 1 psid	25 @ 1 psid	24 @ 1 psid
Filter Efficiency	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)	3μ absolute (β <sub>3</sub> ≥200)



Product Specifications	DC-XD-6
Unit Height	6.51 in / 165.4 mm
Unit Diameter	5.1 in / 129.5 mm
Connection Size	1 1/2" Female X 16 UN female thread
Amount of Silica Gel	1.75 lbs / 0.79 kg
Max. Flow Rate	16 @ 1 psid
Filter Efficiency	0.3μ absolute (β <sub>3</sub> ≥200)

See page 18 to 21 for breather adapters.  
Full product specifications are available at [descase.com](https://descase.com).



HydroGuard® Breathers

HydroGuard (HG) 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 ENVIRONMENTS:

- Steady-State Operations
- High Humidity
- Washdowns



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 provide 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 Systems
- Low-Flow Applications

OPERATING ENVIRONMENTS:

- Intermittent Operations
- High Humidity
- Washdowns



Product Specifications	DC-HG-1	DC-HG-8
Unit Height	7.22 in / 183 mm	9.75 in / 247.66 mm
Unit Diameter	2.52 in / 64 mm	4.1 in / 104.1 mm
Connection Size	3/8" Multi-Fit (NPT, BSPP, BSPT)	1" Multi-Fit (NPT, BSPP, BSPT)
Amount of Silica Gel	0.28 lbs / 0.125 kg	0.65 lbs / 0.24 kg
Max. Flow Rate	1.41 @ 1 psid	2.5 @ 1 psid
Filter Efficiency	3µ absolute (β <sub>3</sub> ≥200)	3µ absolute (β <sub>3</sub> ≥200)



Product Specifications	DC-VG-BB	DC-VG-1	DC-VG-2	DC-VG-3	DC-VG-4
Unit Height	3.90 in / 99.06 mm	5.31 in / 134.9 mm	6.125 in / 155.6 mm	8.125 in / 206.4 mm	10.125 in / 257.2 mm
Unit Diameter	2.52 in / 64.01 mm	2.25 in / 64.01 mm	4 in / 101.6 mm	4 in / 101.6 mm	4 in / 101.6 mm
Connection Size	3/8" Multi-Fit (NPT, BSPP, BSPT)	3/8" Multi-Fit (NPT, BSPP, BSPT)	1" Multi-Fit (NPT, BSPT, NPSM)	1" Multi-Fit (NPT, BSPT, NPSM)	1" Multi-Fit (NPT, BSPT, NPSM)
Amount of Silica Gel	0.13 lbs / 0.059 kg	0.28 lbs / 0.125 kg	0.66 lbs / 0.30 kg	1.22 lbs / 0.56 kg	1.88 lbs / 0.84 kg
Max. Flow Rate	1.45 @ 1 psid	1.45 @ 1 psid	2.5 @ 1 psid	2.28 @ 1 psid	1.8 @ 1 psid
Filter Efficiency	3µ absolute (β <sub>3</sub> ≥200)	3µ absolute (β <sub>3</sub> ≥200)	3µ absolute (β <sub>3</sub> ≥200)	3µ absolute (β <sub>3</sub> ≥200)	3µ absolute (β <sub>3</sub> ≥200)

# Rebuildable Steel Breathers

Rebuildable Steel (RS) breathers were designed specifically for applications such as bulk storage tanks or large circulating lube oil systems with 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 kits including a 1-micron pleated replacement filter element, desiccant bag filter, sight glass indicator, foam pad, and gasket which are easily replaced without removing the breather from service.

APPLICATIONS:

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

OPERATING ENVIRONMENTS:

- Harsh Environments
- Harsh Chemicals
- High Temperature

Product Specifications	DC-RS-3	DC-RS-5	DC-RS-9	DC-RS-15	DC-RS-25
Unit Height	11.5 in / 292 mm	13.75 in / 349 mm	18.25 in / 464 mm	19.25 in / 489 mm	22.5 in / 571 mm
Unit Diameter	10.13 in / 257.2 mm	10.13 in / 257.2 mm	10.13 in / 257.2 mm	15.5 in / 393.7 mm	15.5 in / 393.7 mm
Connection Size	2" NPT	2" NPT	2" NPT	3" NPT	3" NPT
Amount of Silica Gel	3 lbs / 1.36 kg	5 lbs / 2.27 kg	9 lbs / 4.08 kg	15 lbs / 6.80 kg	25 lbs / 11.34 kg
Max. Flow Rate	85 @ 0.5 psid	85 @ 0.5 psid	80 @ 0.5 psid	205 @ 0.5 psid	140 @ 0.5 psid
Filter Efficiency	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)

Product Specifications	DC-RS-50	DC-RS-75	DC-RS-100	DC-RS-150	DC-RS-200
Unit Height	31.25 in / 794 mm	39.75 in / 1010 mm	31 in / 787 mm	36.75 in / 933 mm	42.75 in / 1086 mm
Unit Diameter	15.5 in / 393.7 mm	15.5 in / 393.7 mm	23.5 in / 596.9 mm	23.5 in / 596.9 mm	23.5 in / 596.9 mm
Connection Size	3" NPT	3" NPT	4" NPT	4" NPT	4" NPT
Amount of Silica Gel	50 lbs / 22.68 kg	75 lbs / 34.02 kg	100 lbs / 45.36 kg	150 lbs / 68.04 kg	200 lbs / 90.72 kg
Max. Flow Rate	115 @ 1 psid cfm	80 @ 1 psid cfm	270 @ 1 psid cfm	250 @ 1 psid cfm	240 @ 1 psid cfm
Filter Efficiency	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)	1µ absolute (β <sub>1</sub> ≥1000)



REBUILDABLE STEEL BREATHER KITS (DC-RS-X-RK):

- Note: Substitute the appropriate RS model number for the "X" in the rebuild kit part number. (Ex. DC-RS-3-RK)*
- Rebuild kits are available in a variety of materials to meet chemical compatibility needs.
  - Desiccant bags above an RS-25 are packaged in 25 lb increments for easy handling.
  - Des-Case recommends use of a pressure/relief valve on any tank or storage system.



REPLACEMENT  
FILTER ELEMENT



DESICCANT  
BAG FILTER



SIGHT GLASS  
INDICATOR



GASKET



FOAM PAD



Full product specifications are available at [descase.com](https://descase.com).



# Non-Desiccant Breathers

Non-Desiccant (ND) 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 control 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 Glasses
- Gear Drives
- Casting Hydraulics

**OPERATING ENVIRONMENTS:**

- Low Humidity
- Arid Environments
- High Dust



Product Specifications	DC-ND-2	DC-ND-35
Unit Height	1.35 in / 34.3 mm	5 in / 127 mm
Unit Diameter	1.80 in / 45.7 mm	5 in / 127 mm
Connection Size	3/8"	1" Female (FNPT)
Max. Flow Rate	0.67 @ 1 psid	40 @ 1 psid
Filter Efficiency	0.3µ absolute (β <sub>3</sub> ≥200)	0.3µ absolute (β <sub>3</sub> ≥200)

# Customized Desiccant Breathers

Customized desiccant breathers offer several alternative or secondary agent media options that can be mixed to meet specific environmental and chemical needs.



**CUSTOMIZED DESICCANT OPTIONS INCLUDE:**



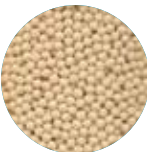
**ORANGE SILICA GEL**

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. The difference between the two is the chemical used to indicate the color-change. Blue-to-pink uses cobalt chloride and orange-to-white uses ferric ammonium sulfate.



**ACTIVATED CARBON**

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



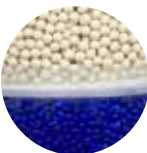
**MOLECULAR SIEVE**

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 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 adsorb both moisture and fumes simultaneously.


Contact Des-Case at 615.672.8800 or at [sales@descase.com](mailto:sales@descase.com) for help choosing the correct media for your application.



# Breather Accessories & Adapters


Des-Case’s breather accessory and adapter products offer optimum solutions for various equipment connection needs. Choose from a variety of materials, connection port size and thread requirements in order to properly outfit your equipment application.

ADAPTERS & ACCESSORIES:




**DC-12-T**

Description	PVC Flange Adapter
Breather Threaded Mount Size	1" Multifit
Equipment Connection Port/Size	6 Bolt Circular Mounting (Ø 3.5")
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)




**DC-13-T**

Description	PVC Female to Female Threaded Adapter
Breather Threaded Mount Size	1" female NPT
Equipment Connection Port/Size	1" Male NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)




**DC-15-T**

Description	Aluminum Bayonet Adapter
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	1 1/2" Bayonet Style
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)




**DC-17-T**

Description	PVC Female to Male Threaded Adapter
Breather Threaded Mount Size	1" female NPT
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)




**DC-35**

Description	PVC Female to Male Threaded Adapter
Breather Threaded Mount Size	3/8" Female NPT
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)




**DC-36**

Description	PVC Female to Male Threaded Adapter
Breather Threaded Mount Size	3/8" Female NPT
Equipment Connection Port/Size	1" Male NPT
Breathers	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)




**DC-37**

Description	PVC Female to Male Threaded Adapter
Breather Threaded Mount Size	3/8" Female NPT
Equipment Connection Port/Size	1/2" Female NPT
Breathers	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)



**DC-SDVA-12M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4)



**DC-SDVA-16M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	1" Female NPT
Breathers	(DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4)

EXTENDED SERIES BREATHER ADAPTERS:



**DC-EXVA-12M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1" Male NPT
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Extended Series (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)



**DC-EXVA-16M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1" Male NPT
Equipment Connection Port/Size	1" Female NPT
Breathers	Extended Series (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)



**DC-EXA-10**

Description	Steel Threaded Adapter
Breather Threaded Mount Size	1" Male NPT
Equipment Connection Port/Size	1" Female NPT
Breathers	Extended Series (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)



**DC-EXA-17**

Description	Steel Threaded Adapter
Breather Threaded Mount Size	1" Male NPT
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Extended Series (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)



**DC-12-T-EX**

Description	Steel Threaded Flange Adapter
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	6 Bolt Circular Mounting (Ø 3.5")
Breathers	Extended Series (DC-EX-1, DC-EX-2, DC-EX-3, DC-EX-4)

EXTREME DUTY BREATHER ADAPTERS:



**DC-XDVA-12M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1 1/2"-16 UN Male
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Extreme Duty Breather (DC-XD-6)



**DC-XDVA-16M**

Description	Steel Vent Valve Adapter
Breather Threaded Mount Size	1 1/2"-16 UN Male
Equipment Connection Port/Size	1" Female NPT
Breathers	Extreme Duty Breather (DC-XD-6)



**DC-DSA-17**

Description	Steel Threaded Adapter
Breather Threaded Mount Size	1 1/2"-16 UN Male
Equipment Connection Port/Size	3/4" Female NPT
Breathers	Extreme Duty Breather (DC-XD-6)



**DC-DSA-10**

Description	Steel Threaded Adapter
Breather Threaded Mount Size	1 1/2"-16 UN Male
Equipment Connection Port/Size	1" Female NPT
Breathers	Extreme Duty Breather (DC-XD-6)



Breather Accessories & Adapters

VAPORGUARD ADAPTERS:

DC-OVG-6200



Description	Single Length Oil Mist Adapter
Breather Threaded Mount Size	3/8", 3/4" or 1" Female NPT
Equipment Connection Port/Size	3/8", 1/2", 3/4", 1", 1 1/4" Female NPT
Breathers	All DC breathers

DC-OVG-6220



Description	Double Length Oil Mist Adapter
Breather Threaded Mount Size	3/8", 3/4" or 1" Female NPT
Equipment Connection Port/Size	3/8", 1/2", 3/4", 1", 1 1/4" Female NPT
Breathers	All DC breathers

BREATHER MANIFOLD ADAPTERS:

DC-ME-2-T



DC-ME-3-T



DC-ME-4-T



Description	PVC Breather Manifold Adapters
Breather Threaded Mount Size	1" Female NPT with 2, 3, or 4 Connections
Equipment Connection Port/Size	2" Female NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)

VACUUM INDICATOR ADAPTERS:

DC-13-T-VI



Description	Single Position Vacuum Indicator Adapter
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	1" Male NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)

DC-SB-VI



Description	Single Position Vacuum Indicator Adapter
Breather Threaded Mount Size	1" Male NPT
Equipment Connection Port/Size	1" Female NPT
Breathers	Non-Desiccant Breather (DC-ND-35)

DC-OCM5-VI



Description	5" Oil Coalescing Adapter with Single Position Vacuum Indicator
Breather Threaded Mount Size	1" Female NPT
Equipment Connection Port/Size	1" Male NPT
Breathers	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)

REBUILDABLE STEEL ADAPTERS:

DC-13-6C



Breather Threaded Mount Size	Steel 2" Female NPT adapter
Equipment Connection Port/Size	4 Bolt Circular Mounting (Ø 6.0")
Breathers	Rebuildable Steel Breathers (DC-RS-3, DC-RS-5, DC-RS-9)

DC-13-10C



Breather Threaded Mount Size	Steel 3" Female NPT adapter
Equipment Connection Port/Size	4 Bolt Circular Mounting (Ø 7.5")
Breathers	Rebuildable Steel Breathers (DC-RS-15, DC-RS-25, DC-RS-50, DC-RS-75)

DC-13-40C



Breather Threaded Mount Size	Steel 4" Female NPT adapter
Equipment Connection Port/Size	8 Bolt Circular Mounting (Ø 9.0")
Breathers	Rebuildable Steel Breathers (DC-RS-100, DC-RS-150, DC-RS-200)

Rebuildable steel breather adapters are also available in stainless steel. Call for quote and availability.

Contact Des-Case at 615.672.8800 or at [sales@descase.com](mailto:sales@descase.com) to receive a full list of adapters.



Customizable, Quality Solutions for Your Contamination Control Program

With proper lubricant storage, transfer, and filtration equipment you can dramatically improve industrial equipment performance and lubricant life, preventing downtime and high machinery repair costs. Des-Case offers quality, customizable solutions to fit your plant's unique environment.



PORTABLE FILTRATION

With easy maneuverability around plant floors, portable filtration products are the ideal tools to remediate contaminated systems, flush new equipment during commissioning, or periodically decontaminate systems that have inadequate on-board filtration to meet target cleanliness levels.



DEDICATED FILTRATION

For applications that need regular filtration, or a maintenance location where you bring equipment to be filtered, permanently-mounted filtration improves equipment reliability with continuous-duty, "always-on" filtration that cleans oil and keeps it clean.



LUBRICANT STORAGE & HANDLING

Store, filter, and transfer lubricants using best practice solutions from Des-Case. Customizable lubricant management systems and innovative IsoLink™ oil transfer containers integrate breathers and quick connect technology to fully protect lubricants.



LOOK FOR THE ICON and head to [descase.com](https://descase.com) to customize yours today!



VACUUM DEHYDRATION

Vacuum dehydration prevents contamination-related problems such as oxidation, degradation, and corrosion by removing large quantities of dissolved water, particulate, and gaseous contamination from your petroleum and synthetic-based oils.



ADAPTER KITS

Adapter kits are the connection between your application and filtration system. They pair fluid handling filtration with breather protection, allowing maximum system integrity with less equipment and labor and reduced system contamination.



FILTER ELEMENTS

Filter elements tackle water, particulate, varnish, sludge, and acid removal in a variety of industrial applications.

DES-CASE QUICK TIP



Whether you receive oil in bulk, tote or drum, new oil is typically 4-8 times dirtier than recommended for critical applications.



# Portable Filtration



## Filter Cart

Filter carts offer portable, offline filtration and are ideal for use on small to medium-sized reservoirs with low flow rates. They are fully customizable with options for flow rate, connections, filters, and more.

**APPLICATIONS:**

- Decontaminating systems
- Flushing new or repaired systems
- Dispensing new oil
- Pre-filtering new oil
- Evacuating used oil
- Reservoir top-offs
- Flushing systems
- Collecting oil samples for analysis

**FEATURES:**

- Automatic pressure relief valve
- Non-bypass filter heads which prevent particles from passing by when the filters reach maximum saturation
- Dual-stage filtration with multiple micron ratings available
- 12' hose assemblies with various quick connect options
- Various flow rates and power supply options available
- Optional manual filter bypass
- Various sample valve options
- Optional Y-strainer
- Pneumatic wheels for easy mobility
- Industrial powder-coated paint available in six colors
- Heavy-duty cart with oil catch pan



## Also available: Top-Off Tank Kit

Make filtration, storage, and fluid transfer easier while reducing contamination.

- 13-gallon high density polyethylene tank
- Fill and drain ports with your choice of connections
- Can be ordered with or without filter cart

See page 38 & 39 for filter element replacements.

# Portable Filtration



## Handheld Drum Topper

Compact, portable, and customized for your application, the handheld drum topper is an option you can carry wherever you need to go or affix securely atop an oil drum.

**APPLICATIONS:**

- Decontaminating systems
- Flushing new or repaired systems
- Dispensing new oil
- Pre-filtering new oil
- Evacuating used oil
- Topping off reservoirs
- Collecting oil samples for analysis

**FEATURES:**

- Automatic pressure relief valve
- Non-bypass filter heads which prevent particles from passing by when the filters reach maximum saturation
- Dual-stage filtration with multiple micron ratings available
- 6' hose assemblies with various quick connect options
- Various flow rates and power supply options available
- Optional manual filter bypass
- Various sample valve options
- Industrial powder-coated paint available in six colors



## Drum Filter Cart

The drum filter cart is a customizable, all-in-one cart that is ideal for pre-cleaning, protecting, and transferring oil from a conveniently attachable, secured drum. A drum adapter kit with a desiccant breather is included for complete contamination control.

**APPLICATIONS:**

- Decontaminating systems
- Flushing new or repaired systems
- Dispensing oil
- Pre-filtering new oil
- Evacuating used oil
- Topping off reservoirs
- Collecting oil samples for analysis

**FEATURES:**

- Automatic pressure relief valve
- Dual-stage filtration with multiple micron ratings available
- 12' hose assemblies with various quick connect options
- Rugged powder-coated dolly available in six colors
- Adjustable heavy-duty straps with spring-loaded clips to secure drum
- Various flow rates and power supply options available
- Remote-mounted power switch
- Casters for easy mobility



# Portable Filtration - TC Series

The TC Series represents the highest quality and most rugged systems available for purifying industrial oils. They are capable of removing particles and/or free water from all types of oil – even high viscosity gear oils. With canisters that can accommodate multiple filter types such as microfiberglass drop-in filters, depth filters and bag filters, the TC Series systems can remove everything from large particles and debris, sludge varnish and waste contamination.

## Filter Cart

These heavy-duty carts are ideal for large reservoirs with high flow rates.

**APPLICATIONS:**

- Decontaminating systems
- Flushing new or repaired systems
- Dispensing new oil
- Pre-filtering new oil
- Evacuating used oil
- Reservoir top-offs
- Collecting oil samples for analysis

**STANDARD FEATURES:**

- Heavy-duty, industrial style canisters with bolt-down lids and heavy gauge cylinder walls
- Continuous-duty gear pump – 1-40 gpm flow rates available
- NEMA 4 industrial-duty switch
- Pump pressure and differential pressure gauges
- Y-strainer
- Manual bypass
- Steel braid reinforced hydraulic hoses
- Rectangular tubing, heavy-duty frame
- 16" solid rubber wheel for easy mobility



See page 38 & 39 for filter element replacements.

# Dedicated Filtration - TC Series

## T-Stand

These heavy-duty stands are ideal for dedicated filtration on large reservoirs with high flow rates.

**APPLICATIONS:**

- Decontaminating systems
- Flushing new or repaired systems
- Pre-filtering new oil
- Collecting oil samples for analysis

**STANDARD FEATURES:**

- Heavy-duty, industrial style canisters with bolt-down lids and heavy gauge cylinder walls
- Continuous-duty gear pump – 1-40 gpm flow rates available
- NEMA 4 industrial-duty switch
- Pump pressure and differential pressure gauges
- Y-strainer
- Manual bypass
- Rectangular tubing, heavy-duty frame



**DES-CASE QUICK TIP**



82% of mechanical wear is caused by particle contamination.

See page 38 & 39 for filter element replacements.



# Dedicated Filtration

## Panel Unit

Panel units are ideal for mineral-based industrial fluids in small to medium-sized reservoirs with low flow rates. The panel unit can be mounted where you need it most for applications that need regular filtration, or a maintenance location where you bring equipment to be filtered.

**APPLICATIONS:**

- Decontaminating systems
- Cooling systems
- Collecting oil samples for analysis

**FEATURES:**

- Automatic pressure relief valve
- Non-bypass filter heads which prevent particles from passing by when the filters reach maximum saturation
- Dual-stage filtration with multiple micron ratings available
- Various flow rates and power supply options available
- Optional manual filter bypass
- Various sample valve options
- Optional oil cooler and temperature gauge
- Industrial powder-coated paint available in six colors
- Durable frame with drip pan for direct mounting



## Also available: Compact Panel Unit

Designed for critical applications and difficult-to-access equipment, the compact panel unit is 60% smaller than the standard panel unit.



See page 38 & 39 for filter element replacements.

# Mobile Equipment Kits

Mobile equipment kits provide filtration with depth media for a constant contamination control solution at very low ISO cleanliness levels. These systems provide preventative measures to keep dust, dirt, debris, and water out of engine or hydraulic oils and keep your mobile equipment running at peak capacity.



**ENGINE KITS**

The engine kits work by taking small amounts of oil after the OEM full flow filter and directing it through the engine kit. Oil flows through the canisters at a set rate and is returned directly to the engine sump. The system is designed to prevent the canisters from being emptied when the equipment is shut down, while the small amount of oil directed through the engine kit at any given time ensures the engine is never starved of oil. A pressure relief valve is also installed to prevent accidental over pressuring of the canisters during cold cranking.

**HYDRAULIC KITS**

With a hydraulic kit, oil flow will originate from a constant pressure point in the system. A pressure compensated flow control valve is installed at the inlet of the filter canister to meter flow into the hydraulic system. Oil will flow through the canister at the set rate and be returned to the reservoir. A pressure relief valve is also installed in the canister and returns to the reservoir to prevent accidental overpressuring of the canister.





# Storage & Handling

## LT-Series Lubricant Management System (LT-LMS)

Simple, stackable, and easy storage meets solid contamination control practices in a unique design with the LT-LMS. Dedicated filtration per container ensures no cross-contamination of fluids, while desiccant breathers prevent dirt and water ingress.

**APPLICATIONS:**

- Storing lubricants
- Dispensing new oil
- Pre-filtering new oil
- Collecting oil samples for analysis

**FEATURES:**

- High-density polyethylene (HDPE) or steel tank options in various sizes
- Dedicated pump, motor, filter and desiccant breather per tank
- Heavy-duty stand that can withstand tank stacking
- Manual gravity drain
- Automatic pressure relief valve
- 12' hose assemblies with various quick connect options
- Various flow rates and power supply options available
- Various sample valve options



# Storage & Handling

## Lubricant Management System (LMS)

The sturdy, stackable, and customizable pods of the LMS free up valuable floor space in any lube room. Dual-stage filtration, timers, quick disconnects, and desiccant breathers make this all-in-one system the most unique storage and handling product on the market.

**APPLICATIONS:**

- Storing lubricants
- Dispensing new oil
- Pre-filtering new oil
- Collecting oil samples for analysis

**FEATURES:**

- Steel tanks in 75, 150 and 300 gallon options
- Dedicated pump, motor, filters and desiccant breather per tank
- Pump timer
- Automatic pressure relief valve
- Heavy-duty stand that can withstand tank stacking
- Manual gravity drain
- Dual-stage filtration with multiple micron ratings available
- Various flow rates and power supply options available



See page 38 & 39 for filter element replacements.



# Storage & Filtration

## IsoLink™ Oil Transfer Containers

The first best practice solution to keep oil clean and dry during oil transfer. With non-desiccant and desiccant breather options, as well as quick connects for clean filling, IsoLink isolates oil from the environment providing the ultimate in best practice contamination control.

**APPLICATIONS:**

- Transferring small volumes of oil
- Topping off reservoirs
- Small volume storage



**LIDS**

Optional non-desiccant or desiccant breathers keep oil clean and dry while in the container.

An optional ISO B quick connect allows new, pre-filtered oil to be added to the container without exposing it to the atmosphere.

The trigger mechanism in the dispensing lid keeps fluid isolated until engaged, controlling moisture and contamination. It also enables variable flow control when dispensing.

**SPOUTS**

Interchangeable spouts allow more flexibility with the standard dispensing lid and eliminate the need for funnels. They are available in different lengths, tip sizes, colors, and either rigid or extended options.

**CONTAINERS**

Industrial-grade HDPE containers will not chemically react with oil or additive packages. The square design provides 27% more storage capacity than round containers.

Three sizes available:  
1 gallon/4 liters, 1.8 gallons/7 liters, 2.6 gallons/10 liters.



**ACCESSORIES**

The pump, pump cap, and color-coding ring allow for even more control of your lubricant storage and handling.

**LUBRICANT TAGGING SYSTEM**

The Lubricant Tagging system provides a versatile nomenclature to classify industrial lubricating oil in generic terms. Primary attributes of common lubricant types are identified based on Base Oil Type, Viscosity Grade, and Oil Type/Additive Package with a pattern, shape, and color system. This system makes it easy to identify the lubricant a component holds without small fonts or overly-complicated information.

**SPOUTS, PUMP CAPS, AND PUMP RINGS COME IN 11 DIFFERENT COLORS FOR COLOR-CODING:**  
Gray • White • Black • Red • Blue • Yellow • Beige • Orange • Purple • Light Green • Dark Green



IsoLink Oil Transfer Containers Ordering Part Codes

DISPENSING LIDS (Spouts Sold Separately)

Dispensing Lid with Vent Plug (no breather)	DC-OTC-L-D-P-VP
Dispensing Lid with Non-Desiccant Breather	DC-OTC-L-D-P-ND2
Dispensing Lid with Desiccant Breather	DC-OTC-L-D-P-BB
Dispensing Lid with ISO B Plug & Vent Plug (no breather)	DC-OTC-L-D-B-VP
Dispensing Lid with ISO B Plug & Non-Desiccant Breather	DC-OTC-L-D-B-ND2
Dispensing Lid with ISO B Plug & Desiccant Breather	DC-OTC-L-D-B-BB

SPOUTS (All Spouts Come with Black Contamination Control Caps)

8" Rigid Spout 1/4" Tip, Gray	DC-OTC-S-R-8-04-1
8" Rigid Spout 1/4" Tip, Black	DC-OTC-S-R-8-04-2
8" Rigid Spout 1/4" Tip, White	DC-OTC-S-R-8-04-3
8" Rigid Spout 1/4" Tip, Blue	DC-OTC-S-R-8-04-4
8" Rigid Spout 1/4" Tip, Red	DC-OTC-S-R-8-04-5
8" Rigid Spout 1/4" Tip, Yellow	DC-OTC-S-R-8-04-6
8" Rigid Spout 1/4" Tip, Beige	DC-OTC-S-R-8-04-7
8" Rigid Spout 1/4" Tip, Light Green	DC-OTC-S-R-8-04-8
8" Rigid Spout 1/4" Tip, Dark Green	DC-OTC-S-R-8-04-9
8" Rigid Spout 1/4" Tip, Purple	DC-OTC-S-R-8-04-10
8" Rigid Spout 1/4" Tip, Orange	DC-OTC-S-R-8-04-11
8" Rigid Spout 1/2" Tip, Gray	DC-OTC-S-R-8-08-1
8" Rigid Spout 1/2" Tip, Black	DC-OTC-S-R-8-08-2
8" Rigid Spout 1/2" Tip, White	DC-OTC-S-R-8-08-3
8" Rigid Spout 1/2" Tip, Blue	DC-OTC-S-R-8-08-4
8" Rigid Spout 1/2" Tip, Red	DC-OTC-S-R-8-08-5
8" Rigid Spout 1/2" Tip, Yellow	DC-OTC-S-R-8-08-6
8" Rigid Spout 1/2" Tip, Beige	DC-OTC-S-R-8-08-7
8" Rigid Spout 1/2" Tip, Light Green	DC-OTC-S-R-8-08-8
8" Rigid Spout 1/2" Tip, Dark Green	DC-OTC-S-R-8-08-9
8" Rigid Spout 1/2" Tip, Purple	DC-OTC-S-R-8-08-10
8" Rigid Spout 1/2" Tip, Orange	DC-OTC-S-R-8-08-11
8" Rigid Spout 1" Tip, Gray	DC-OTC-S-R-8-16-1
8" Rigid Spout 1" Tip, Black	DC-OTC-S-R-8-16-2
8" Rigid Spout 1" Tip, White	DC-OTC-S-R-8-16-3
8" Rigid Spout 1" Tip, Blue	DC-OTC-S-R-8-16-4
8" Rigid Spout 1" Tip, Red	DC-OTC-S-R-8-16-5
8" Rigid Spout 1" Tip, Yellow	DC-OTC-S-R-8-16-6
8" Rigid Spout 1" Tip, Beige	DC-OTC-S-R-8-16-7
8" Rigid Spout 1" Tip, Light Green	DC-OTC-S-R-8-16-8
8" Rigid Spout 1" Tip, Dark Green	DC-OTC-S-R-8-16-9
8" Rigid Spout 1" Tip, Purple	DC-OTC-S-R-8-16-10
8" Rigid Spout 1" Tip, Orange	DC-OTC-S-R-8-16-11

DC-OTC-S-R-5-16-11



DC-OTC-L-P-C-7



SPOUTS (All Spouts Come with Black Contamination Control Caps)

5" Rigid Spout with 1" Tip, Gray	DC-OTC-S-R-5-16-1
5" Rigid Spout with 1" Tip, Black	DC-OTC-S-R-5-16-2
5" Rigid Spout with 1" Tip, White	DC-OTC-S-R-5-16-3
5" Rigid Spout with 1" Tip, Blue	DC-OTC-S-R-5-16-4
5" Rigid Spout with 1" Tip, Red	DC-OTC-S-R-5-16-5
5" Rigid Spout with 1" Tip, Yellow	DC-OTC-S-R-5-16-6
5" Rigid Spout with 1" Tip, Beige	DC-OTC-S-R-5-16-7
5" Rigid Spout with 1" Tip, Light Green	DC-OTC-S-R-5-16-8
5" Rigid Spout with 1" Tip, Dark Green	DC-OTC-S-R-5-16-9
5" Rigid Spout with 1" Tip, Purple	DC-OTC-S-R-5-16-10
5" Rigid Spout with 1" Tip, Orange	DC-OTC-S-R-5-16-11
16" Extended Spout 1/4" Tip, Gray	DC-OTC-S-E-16-04-1
16" Extended Spout 1/4" Tip, Black	DC-OTC-S-E-16-04-2
16" Extended Spout 1/4" Tip, White	DC-OTC-S-E-16-04-3
16" Extended Spout 1/4" Tip, Blue	DC-OTC-S-E-16-04-4
16" Extended Spout 1/4" Tip, Red	DC-OTC-S-E-16-04-5
16" Extended Spout 1/4" Tip, Yellow	DC-OTC-S-E-16-04-6
16" Extended Spout 1/4" Tip, Beige	DC-OTC-S-E-16-04-7
16" Extended Spout 1/4" Tip, Light Green	DC-OTC-S-E-16-04-8
16" Extended Spout 1/4" Tip, Dark Green	DC-OTC-S-E-16-04-9
16" Extended Spout 1/4" Tip, Purple	DC-OTC-S-E-16-04-10
16" Extended Spout 1/4" Tip, Orange	DC-OTC-S-E-16-04-11
16" Extended Spout 1" Tip, Gray	DC-OTC-S-E-16-16-1
16" Extended Spout 1" Tip, Black	DC-OTC-S-E-16-16-2
16" Extended Spout 1" Tip, White	DC-OTC-S-E-16-16-3
16" Extended Spout 1" Tip, Blue	DC-OTC-S-E-16-16-4
16" Extended Spout 1" Tip, Red	DC-OTC-S-E-16-16-5
16" Extended Spout 1" Tip, Yellow	DC-OTC-S-E-16-16-6
16" Extended Spout 1" Tip, Beige	DC-OTC-S-E-16-16-7
16" Extended Spout 1" Tip, Light Green	DC-OTC-S-E-16-16-8
16" Extended Spout 1" Tip, Dark Green	DC-OTC-S-E-16-16-9
16" Extended Spout 1" Tip, Purple	DC-OTC-S-E-16-16-10
16" Extended Spout 1" Tip, Orange	DC-OTC-S-E-16-16-11



DC-OTC-L-P-B-BB



DC-OTC-C-4



DC-OTC-C-7



DC-OTC-C-10

PUMP LIDS (Pumps & Caps Sold Separately)

Pump Lid with Vent Plug (no breather)	DC-OTC-L-P-P-VP
Pump Lid with Non-Desiccant Breather	DC-OTC-L-P-P-ND2
Pump Lid with Desiccant Breather	DC-OTC-L-P-P-BB
Pump Lid with ISO B Plug & Vent Plug (no breather)	DC-OTC-L-P-B-VP
Pump Lid with ISO B Plug & Non-Desiccant Breather	DC-OTC-L-P-B-ND2
Pump Lid with ISO B Plug & Desiccant Breather	DC-OTC-L-P-B-BB
Pump Lid Cap, Gray	DC-OTC-L-P-C-1
Pump Lid Cap, Black	DC-OTC-L-P-C-2
Pump Lid Cap, White	DC-OTC-L-P-C-3
Pump Lid Cap, Blue	DC-OTC-L-P-C-4
Pump Lid Cap, Red	DC-OTC-L-P-C-5
Pump Lid Cap, Yellow	DC-OTC-L-P-C-6
Pump Lid Cap, Beige	DC-OTC-L-P-C-7
Pump Lid Cap, Light Green	DC-OTC-L-P-C-8
Pump Lid Cap, Dark Green	DC-OTC-L-P-C-9
Pump Lid Cap, Purple	DC-OTC-L-P-C-10
Pump Lid Cap, Orange	DC-OTC-L-P-C-11

CONTAINERS

1 Gallon / 4 Liter Container	DC-OTC-C-4
1.8 Gallon / 7 Liter Container	DC-OTC-C-7
2.6 Gallon / 10 Liter Container	DC-OTC-C-10

KITS

Basic Kit	DC-OTC-K-B
<b>Includes:</b> (1) of each size container, (2) basic dispensing lids with vent plugs (no breathers), (1) blue 5" spout with 1" tip, (1) red 8" spout with 1/2" tip, (1) black 16" extended spout with 1" tip, (1) pump lid, (1) pump cap, (1) yellow pump with 5' nozzle hose, (1) yellow pump color-coding ring	
Non-Desiccant Breather Kit	DC-OTC-K-N
<b>Includes:</b> (1) of each size container, (2) dispensing lids with vent plugs & non-desiccant breathers, (1) blue 5" spout with 1" tip, (1) red 8" spout with 1/2" tip, (1) black 16" extended spout with 1" tip, (1) pump lid with non-desiccant breather, (1) yellow pump cap, (1) pump with 5' nozzle hose, (1) yellow pump color-coding ring	
Best Practice Kit	DC-OTC-K-P
<b>Includes:</b> (1) of each size container, (2) dispensing lids with ISO B plugs & desiccant breathers, (1) blue 5" spout with 1" tip, (1) red 8" spout with 1/2" tip, (1) black 16" extended spout with 1" tip, (1) pump lid with ISO B plug & desiccant breather, (1) yellow pump cap, (1) 5' pump with ISO B Coupler, (1) yellow pump color-coding ring, (1) lubricant tagging package	
Lubricant Tagging Package	DC-OTC-C-L



DC-OTC-C-L



# Vacuum Dehydration



## Vacuum Dehydration System (VAC)

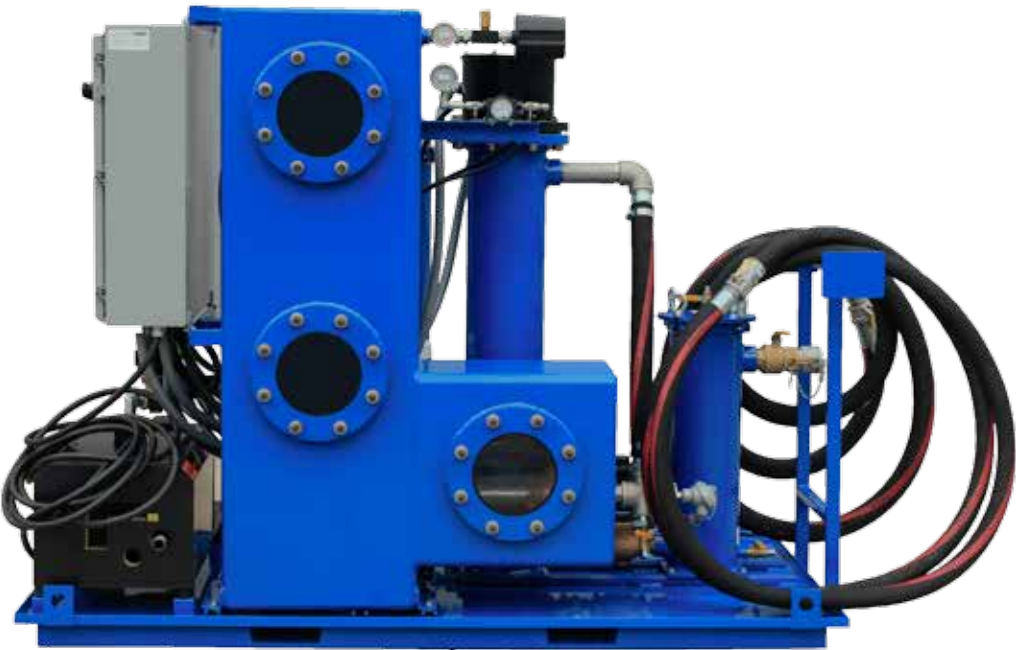
VAC systems are designed to remove 100% of free and emulsified water and at least 90% of dissolved water from petroleum and synthetic-based fluids, as well as 100% of free gases and at least 90% of dissolved gases. Designed for continuous, unattended duty the VAC system doesn't require vacuum tower maintenance or costly coalescing filter element replacements.

### APPLICATIONS:

- Filtering hydraulic systems
- Filtering steam turbine lube systems
- Almost any industrial equipment containing oil

### FEATURES:

- Permanent dispersion media to maximize water extraction rates and eliminate the need for costly replacement of coalescing elements
- High quality rotary claw vacuum pump pulls deeper vacuum and higher CFM
- No vacuum tower maintenance needed
- Designed for continuous, unattended duty
- PLC controller
- Variable Frequency Drive (VFD) enables operator to dial in the optimal flow rate and enhances the system's overall performance
- Single utility, allowing electric service only
- Breather on the vacuum control inlet
- Several warning indicators and safety alarms, such as low flow and high pressure
- System viewing windows for system operation and performance observation
- Basket strainer included to protect system



# Adapter Kits

Lubricated equipment doesn't come standard with the connections needed to apply desiccant breathers and filtration systems. Make that connection easier with one of the available adapter kit products.

### STANDARD FEATURES:

- Disposable breathers
- Sample ports
- Quick connect plugs
- Customizable colors
- Single-position vacuum indicator (Hydraulic and Gearbox Adapter Kits)



### DES-CASE QUICK TIP



For best practices contamination control, always transfer or fill without exposing oil to the environment.

# Filter Elements

## Spin-On Filters

Spin-on filters offer a broad range of thermal and chemical compatibility. These elements are very versatile and work on a wide array of applications. Synthetic media offers the widest chemical compatibility and steel wire construction maintains proper shape while lowering restriction.

### REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:

#### Small Spin-On Filters

- Drum Toppers
- Lubricant Management Systems

#### Large Spin-On Filters

- Filter Carts
- Panel Units
- Drum Filter Carts
- LT-Series Lubricant Management Systems

#### STANDARD FEATURES:

- Maximum working pressure of 200 psi
- Typical burst pressure of 290 psi
- Element collapse at 100 psi
- Buna-N nitrile seals in two sizes (Viton and EPDM also available)
- 1.5" – 16 UN mounting thread
- Spin-on design

## Full Flow Filter Elements

Full flow filter elements provide high efficiency filtration with low pressure drop. With a high holding capacity, they are ideal for large applications and highly contaminated lubricants. Synthetic media with smooth, rounded fibers allow low resistance to fluid flow and have excellent chemical compatibility.

### REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:

- TC Series Filter Cart and T-Stand
- VAC Series Vacuum Dehydrators

#### STANDARD FEATURES:

- Four filler media types: Microfiber glass, water removal molecular sieve, acid removal activated alumina, and acid removal with Selexorb®
- Performance to  $\beta < 3(c) = 1000$  (per ISO 16889)
- Microfiber glass epoxy coated wire support
- Maximum differential pressure: 150 psi
- Maximum flow rate: 150 gpm
- Maximum viscosity: ISO VG 1000
- Endcap & center tube: corrosion protected steel
- Gasket material: nitrile
- Collapse pressure rating: 125 psid
- Temperature range: -45°F to 225°F
- Replacement pressure: 25 psid



# Filter Elements

## Depth Filter Elements

Wound cellulose depth filter elements are an inexpensive method for obtaining high-efficiency filtration in light-viscosity oils such as hydraulic, turbine, or transformer oils. This element helps to clean the oil by dislodging contaminant and achieves particle removal below 1 micron. Depth filter media should not be used for water removal purposes.

### REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:

- TC Series Filter Cart and T-Stand
- Mobile Equipment Kits

#### STANDARD FEATURES:

- Axial flow between the layers of the media
- Performance  $\beta < 3(c) = 1000$  (per ISO 16889)
- High dirt holding capacity
- Can maintain moisture to levels below 50 ppm

## Bag Filters

Bag filters are excellent pre-filtration solutions to catch large, harmful particulates that would otherwise damage or quickly plug primary filters. Filters have a high solids retention capacity and are compatible with most fluids.

### REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:

- TC Series Filter Cart and T-Stand

#### STANDARD FEATURES:

- Polypropylene (PPE) or Nomex® felt
- Singed or glazed surface to prevent fabric fibers from entering media
- Compatible with most fluids except those that are strongly alkaline or acidic
- Efficiency of 85% at stated micron rating



Visit [descase.com](https://descase.com) for full filter specifications.



VISUAL OIL ANALYSIS

A 360° view of the condition of your oil




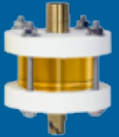


Visual oil analysis products allow you to observe the health and level of your lubricants with a clear view of oil clarity and color, sediment, and water contamination in the oil.

- APPLICATIONS:**
- Pumps
  - Gearboxes
  - Storage Tanks
  - Any lubricated equipment with a drain port or viewport

VISUAL OIL ANALYSIS

Monitor the health and level of your lubricants with Des-Case Visual Oil Analysis products.



	360° View	Installs on Drain Port	Collect & Drain Water (Optional Magnet Drain Valve Available)	Stainless Steel Fittings Available	Monitor Oil Level	View Clarity and Color	Additional Benefits
3-D BullsEye® 	✓				✓	✓	• See foaming in oil
Oil Sight Glass (Vertical) 	✓	✓	✓	✓		✓	• Various volumes available
Oil Sight Glass (Horizontal) 	✓	✓	✓	✓		✓	• Supports Installations with limited vertical space • Various volumes available
High Temperature Oil Sight Glass 	✓	✓	✓	✓		✓	• Supports high temp applications up to 450°F • Various volumes available
Oil Level Indicator 	✓	✓			✓	✓	• Filtered or close-looped installation
Oil Sight Glass Level Monitor 	✓	✓	✓	✓	✓	✓	• Dual port available for sampling oil • Filtered or close-looped installation



A 360° view of the condition of your oil

3-D BullsEye®

The 3-D BullsEye, made of a high performance transparent polyamide, allows immediate and accurate visual oil level monitoring from virtually any angle. Engineered to outperform and outlast traditional viewports, the inherently strong material provides excellent impact, chemical and UV resistance. Available in a range of NPT, Metric and BSPP sizes.

KEY BENEFITS:

- Lasts longer than traditional viewports
- Easy to install and maintain
- UV resistant

3-D BULLSEYE®			
3-D BullsEye 1/4" NPT	DC-3DB0250	3-D BullsEye Metric 10X1.0	DC-3DBM10X1.0
3-D BullsEye 3/8" NPT	DC-3DB0375	3-D BullsEye Metric 10X1.5	DC-3DBM10X1.5
3-D BullsEye 1/2" NPT	DC-3DB0500	3-D BullsEye Metric 12X1.5	DC-3DBM12X1.5
3-D BullsEye 3/4" NPT	DC-3DB0750	3-D BullsEye Metric 16X1.5	DC-3DBM16x1.5
3-D BullsEye 1" NPT	DC-3DB1000	3-D BullsEye Metric 20X1.5	DC-3DBM20X1.5
3-D BullsEye 1-1/4" NPT	DC-3DB1250	3-D BullsEye Metric 22X1.5	DC-3DBM22X1.5
3-D BullsEye 1-1/2" NPT	DC-3DB1500	3-D BullsEye Metric 24X1.5	DC-3DBM24X1.5
3-D BullsEye 2" NPT	DC-3DB2000	3-D BullsEye Metric 26X1.5	DC-3DBM26X1.5
3-D BullsEye 1/2" BSPP	DC-3DBBSPP0500	3-D BullsEye Metric 27X1.5	DC-3DBM27X1.5
3-D BullsEye 3/4" BSPP	DC-3DBBSPP0750	3-D BullsEye Metric 30X1.5	DC-3DBM30X1.5
3-D BullsEye 1" BSPP	DC-3DBBSPP1000	3-D BullsEye Metric 30X2.0	DC-3DBM30X2.0
		3-D BullsEye Metric 33X1.5	DC-3DBM33X1.5

Oil Level Indicator

The oil level indicator was developed to gauge the oil level inside large tanks, gearboxes and reservoirs. A clear acrylic column with level marker stickers, designate running and idle oil levels. Available in a range of heights from 3" to 30".

KEY BENEFITS:

- Closed-loop or filtered installation
- Multiple lengths available

OIL LEVEL INDICATORS (OLI)			
3" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI3	18" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI18
6" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI6	21" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI21
9" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI9	24" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI24
12" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI12	27" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI27
15" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI15	30" OLI, 7/8" OD, 1/2" Male NPT on each end	DC-OLI30



Oil Sight Glass

The oil sight glass allows an immediate visual inspection of oil and the ability to drain any accumulated water with a spring loaded drain valve. Available in both horizontal and vertical configurations and sizes from 1 to 32 ounces.

KEY BENEFITS:

- Easily collect and drain water
- Durable and stain resistant
- Designs available for space limitations



OIL SIGHT GLASSES			
Oil Sight Glass 1 oz X 1/4" NPT	DC-OSG1X250	Oil Sight Glass 1 oz X 1/2" NPT Horizontal	DC-OSG1X500HZ
Oil Sight Glass 1 oz X 3/8" NPT	DC-OSG1X375	Oil Sight Glass 3 oz X 1/4" NPT Horizontal	DC-OSG3X250HZ
Oil Sight Glass 1 oz X 1/2" NPT	DC-OSG1X500	Oil Sight Glass 3 oz X 3/8" NPT Horizontal	DC-OSG3X375HZ
Oil Sight Glass 3 oz X 1/4" NPT	DC-OSG3X250	Oil Sight Glass 3 oz X 1/2" NPT Horizontal	DC-OSG3X500HZ
Oil Sight Glass 3 oz X 3/8" NPT	DC-OSG3X375	Oil Sight Glass 1 oz X 1/4" NPT High Temp.	DC-OSG1X250HT
Oil Sight Glass 3 oz X 1/2" NPT	DC-OSG3X500	Oil Sight Glass 1 oz X 3/8" NPT High Temp.	DC-OSG1X375HT
Oil Sight Glass 16 oz X 1/2" NPT	DC-OSG16X500	Oil Sight Glass 1 oz X 1/2" NPT High Temp.	DC-OSG1X500HT
Oil Sight Glass 32 oz X 1/2" NPT	DC-OSG32X500	Oil Sight Glass 3 oz X 1/4" NPT High Temp.	DC-OSG3X250HT
Oil Sight Glass 1 oz X 1/4" NPT Horizontal	DC-OSG1X250HZ	Oil Sight Glass 3 oz X 3/8" NPT High Temp.	DC-OSG3X375HT
Oil Sight Glass 1 oz X 3/8" NPT Horizontal	DC-OSG1X375HZ	Oil Sight Glass 3 oz X 1/2" NPT High Temp.	DC-OSG3X500HT

Oil Sight Glass Level Monitor

View oil color, clarity, and water accumulation or other contaminants while monitoring the level of oil in the reservoir with the oil sight glass level monitor. A dual port version is available with a second 3/8" NPT port opposite the installation nipple to allow the installation of a sampling tube to draw representative oil samples without pulling outside contaminants. Available in a range of heights from 3" to 24".

KEY BENEFITS:

- Detects accumulation of water and contaminants
- Easily attaches to drain ports

OIL SIGHT GLASS LEVEL MONITORS			
Oil Sight Glass & Level Monitor, 3"	DC-OSGL3	Oil Sight Glass & Level Monitor, 12" Dual Port	DC-OSGL12DP
Oil Sight Glass & Level Monitor, 3" Dual Port	DC-OSGL3DP	Oil Sight Glass & Level Monitor, 15"	DC-OSGL15
Oil Sight Glass & Level Monitor, 6"	DC-OSGL6	Oil Sight Glass & Level Monitor, 15" Dual Port	DC-OSGL15DP
Oil Sight Glass & Level Monitor, 6" Dual Port	DC-OSGL6DP	Oil Sight Glass & Level Monitor, 18"	DC-OSGL18
Oil Sight Glass & Level Monitor, 9"	DC-OSGL9	Oil Sight Glass & Level Monitor, 18" Dual Port	DC-OSGL18DP
Oil Sight Glass & Level Monitor, 9" Dual Port	DC-OSGL9DP	Oil Sight Glass & Level Monitor, 24"	DC-OSGL24
Oil Sight Glass & Level Monitor, 12"	DC-OSGL12	Oil Sight Glass & Level Monitor, 24" Dual Port	DC-OSGL24DP





## Lubrication Training and Consulting

We understand textbook best practices aren't always possible, and that's why we are dedicated to helping people develop more practical solutions for their lubrication process. Our team of lubrication experts has more than 75 years of combined experience in the field, enabling them to provide real-world advice that can be implemented quickly and realistically. With a detailed roadmap, assigned project manager, practical advice, and local distributor support, Des-Case can help with everything from implementation to execution of a lubrication program.

### 1 EDUCATE:

- Practical machinery lubrication
- ICML certification
- Variety of on-demand education

### 2 QUANTIFY:

- Benchmark assessments
- Gap analysis
- Cost-benefit analysis

### 3 DESIGN:

- Lubricant storage and handling
- Equipment modifications
- Contamination control
- Oil sampling & analysis
- Lubrication PM optimization

### 4 MEASURE:

- Routine inspection services
- Troubleshooting
- Evaluation for continuous improvement opportunities

### 5 EXECUTE:

- Storage and handling setup
- Turn-key filtration installation
- Reclamation and custom filtration

Contact Us: [practicaladvice@descase.com](mailto:practicaladvice@descase.com)


TRANSFORM YOUR LUBRICATION PROGRAM.



Handwriting practice lines on page 46. The page contains 10 sets of horizontal lines. Each set consists of a solid top line, a dashed midline, and a solid bottom line. Between the dashed midlines, there are repeating orange-outlined geometric patterns: a series of 'C' shapes and a series of 'X' shapes.

Handwriting practice lines on page 47. The page contains 10 sets of horizontal lines. Each set consists of a solid top line, a dashed midline, and a solid bottom line. Between the dashed midlines, there are repeating orange-outlined geometric patterns: a series of 'C' shapes and a series of 'X' shapes.





Protect your lubricants and equipment with  
Des-Case specialty filtration products.

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