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## 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. This can damage bearings, gears, and valves by slowly wearing away the critical surfaces. Even worse, over time, moisture will condense inside your oil reservoir introducing water to your lubricants, consequently, 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.

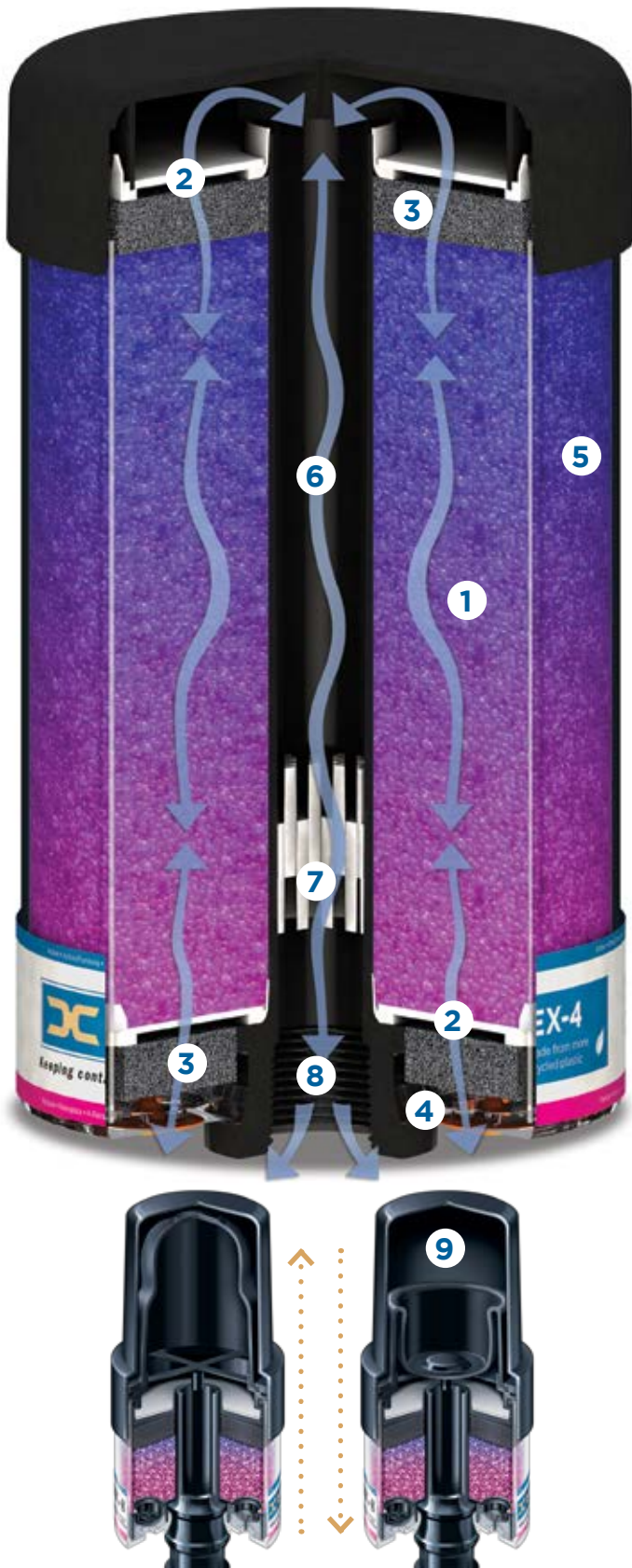


The best part is you'll see a return on investment almost immediately. With fewer breakdowns and production stoppages, you'll run more efficiently and create less waste, all while increasing the working life of your lubricants and equipment.

**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/polybutylteraphtaete 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.

# 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 Code	DC-BB	DC-1	DC-2	DC-3	DC-4
Temperature Range	-20°F to 200°F (-29°C to 93°C)				
Filter Efficiency	3µm absolute				
Amount of Desiccant	.1 lbs (59 g)	.3 lbs. (127 g)	.8 lbs (365 g)	1.4 lbs (643 g)	2.0 lbs (913 g)
Water Adsorption Capacity (Maximum Water Retention)	.8 fl oz (23 ml)	1.7 fl oz (50 ml)	5 fl oz (142 ml)	9 fl oz (251 ml)	12 fl oz (356 ml)
Color Indication	Blue to Pink				
Max Airflow at ΔP 1 psi [.07 bar]	5 cfm (141 l/min)	4 cfm (113 l/min)	16 cfm (453 l/min)	16 cfm (453 l/min)	16 cfm (453 l/min)

# 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 honeycomb 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



Extended Series check-valves and honeycomb oil mist reducer.

Product Code	DC-EX-1	DC-EX-2	DC-EX-3	DC-EX-4
Temperature Range	-20°F to 200°F (-29°C to 93°C)			
Filter Efficiency	3µm absolute			
Check Valve Cracking Pressure	.1 psi (.007 bar)			
Amount of Desiccant	1.2 lbs (544 g)	2.2 lbs (998 g)	3.2 lbs (1452 g)	4.2 lbs (1905 g)
Water Adsorption Capacity (Maximum Water Retention)	7.7 fl oz (228 ml)	14.1 fl oz (417 ml)	20.5 fl oz (606 ml)	27.0 fl oz (798 ml)
Color Indication	Blue to Pink			
Max Airflow at ΔP 1 psi [.07 bar]	27 cfm (765 l/min)	26 cfm (736 l/min)	25 cfm (708 l/min)	24 cfm (680 l/min)

# HydroGuard® Breathers

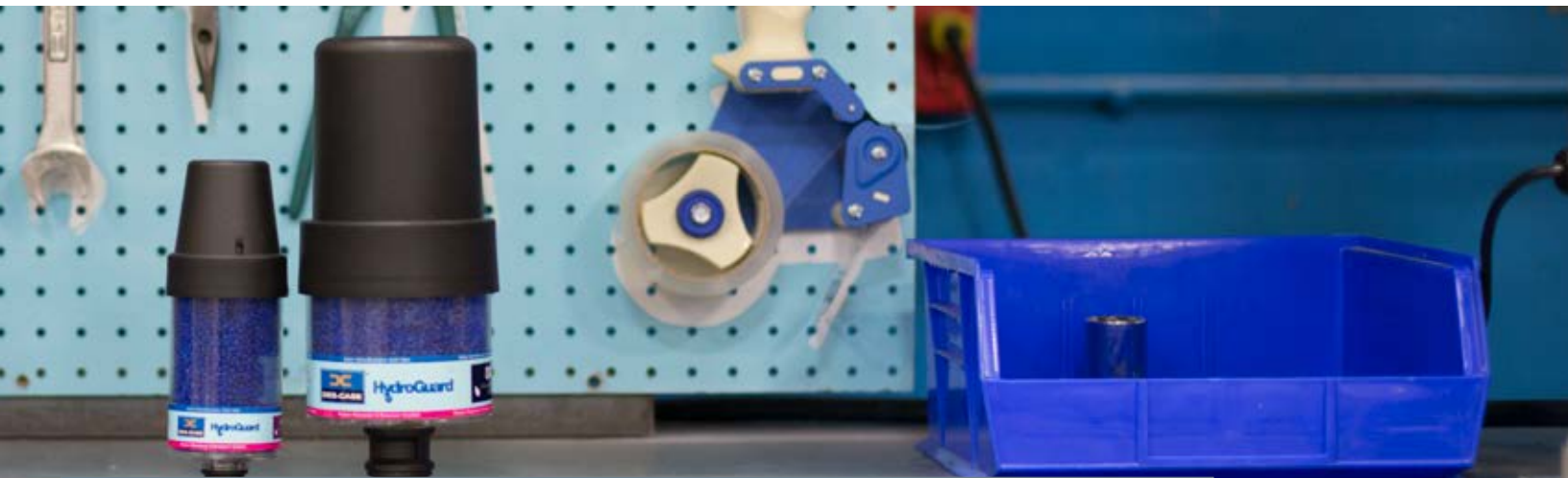
HydroGuard (HG) breathers uniquely feature an expansion chamber and internal check valves that create a nearly-sealed system. Designed specifically for steady-state operations with minimal temperature fluctuations, these breathers provide excellent protection in continuous duty applications.

## APPLICATIONS

- Gearboxes
- Mixers/agitators
- Cooling towers
- Low-flow applications

## OPERATING ENVIRONMENTS

- Steady-state operations
- High humidity
- Washdowns



Product Code	DC-HG-1	DC-HG-8
Temperature Range	-20°F to 200°F (-29°C to 93°C)	
Filter Efficiency	3µm absolute	
Check Valve Cracking Pressure	.1 psi (.007 bar)	
Amount of Desiccant	.3 lbs (136 g)	.8 lbs (363 g)
Water Adsorption Capacity (Maximum Water Retention)	2 fl oz (50ml)	5 fl oz (144ml)
Color Indication	Blue to Pink	
Max Airflow at ΔP 1 psi [.07 bar]	1 cfm (40 l/min)	14 cfm (396 l/min)

## 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 Code	DC-VG-BB	DC-VG-1	DC-VG-2	DC-VG-3	DC-VG-4
Temperature Range	-20°F to 200°F (-29°C to 93°C)				
Filter Efficiency	3µm absolute				
Check Valve Cracking Pressure	.1 psi (.007 bar)				
Amount of Desiccant	0.1 lbs (59 g)	0.3 lbs (127 g)	0.8 lbs (365 g)	1.4 lbs (643 g)	2.0 lbs (913 g)
Water Adsorption Capacity (Maximum Water Retention)	.8 fl oz (23 ml)	1.7 fl oz (50 ml)	5 fl oz (142 ml)	9 fl oz (251 ml)	12 fl oz (356 ml)
Color Indication	Blue to Pink				
Max Airflow at ΔP 1 psi [.07 bar]	1 cfm (141 l/min)	1 cfm (113 l/min)	12 cfm (453 l/min)	11 cfm (453 l/min)	11 cfm (453 l/min)

# 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 0.3 µm absolute ( $\beta_3 \geq 200$ ).

## APPLICATIONS

- Mobile & off-road equipment
- Hydraulics
- Nautical applications
- Truck differentials

## OPERATING ENVIRONMENTS

- Harsh environments
- High vibration/impact
- Washdowns



Product Code	DC-XD-6
Temperature Range	-40°F to 300°F (-40°C to 149°C)
Filter Efficiency	0.3 µm absolute
Check Valve Cracking Pressure	.1 psi (.007 bar)
Amount of Desiccant	1.8 lbs. (794 g)
Water Adsorption Capacity (Maximum Water Retention)	10.7 fl oz (315 ml)
Color Indication	Blue to Pink
Max Airflow at ΔP 1 psi [.07 bar]	16 cfm (456 l/min)



See pages 16 - 19 for breather adapters.  
Full product specifications are available at [descase.com](http://descase.com).

## TDB Series Breathers



The RMF Systems TDB series is made out of the strongest polymer to withstand even the most harsh conditions. It comes standard with an integrated anti-splash device to eliminate oil from the equipment reservoir reaching the air filter and ZR Gel.

### APPLICATIONS

- Mobile & off-road equipment
- Hydraulics
- Nautical applications
- Truck differentials

### OPERATING ENVIRONMENTS

- Harsh environments
- High vibration/impact
- Washdowns



Product Code	93 Series	96 Series	121 Series
Airflow Without Check Valves	24.7 cfm (700 l/min)	24.7 cfm (700 l/min)	53.0 cfm (1500 l/min)
Airflow With Check Valves	10.6 cfm (300 l/min)	10.6 cfm (300 l/min)	14.1 cfm (400 l/min)
Absorption Material	ZR gel 3-6 mm		
ZR Gel Volume	300 cc	600 cc	1,000 cc
Filter Efficiency	3 $\mu$ m absolute ( $\beta_{33} \geq 200$ )		
Temperature Range	-40°F to 300°F (-40°C to 149°C)		
Water Adsorption Capacity (Maximum Water Retention)	2.8 fl oz (86 gram)	5.5 fl oz (172 gram)	9.3 fl oz (288 gram)

## 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 Code	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 lb (1.36 kg)	5 lb (2.27 kg)	9 lb (4.08 kg)	15 lb (6.80 kg)	25 lb (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	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)

Product Code	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 lb (22.68 kg)	75 lb (34.02 kg)	100 lb (45.36 kg)	150 lb (68.04 kg)	200 lb (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	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm absolute (β <sub>1</sub> ≥ 1000)	1 µm 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 (e.g. 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



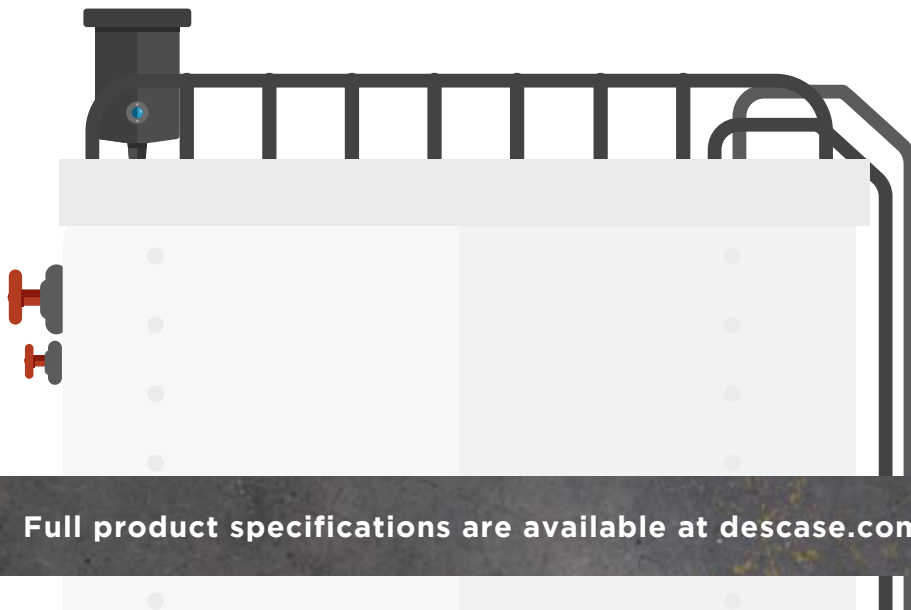
SIGHT GLASS  
INDICATOR



GASKET



FOAM PAD



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

# Non-Desiccant Breathers

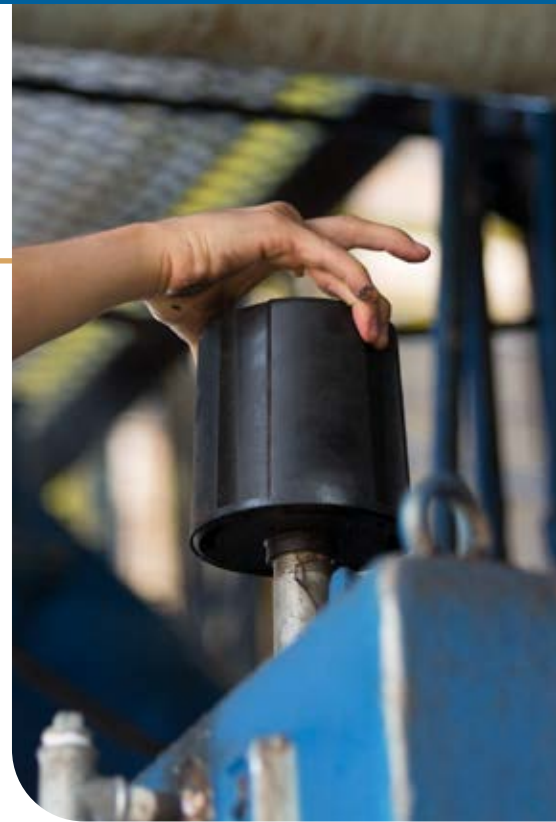
Non-Desiccant (ND) breathers prevent contamination ingress in low-humidity environments or in applications where water-based fluids are in use (e.g. water glycol hydraulic fluid). They help control contamination by preventing free water as well as particles down to 1 micron from getting into the reservoir.

## APPLICATIONS

- Water-based fluids
- Oil sight glasses
- Gear drives
- Casting hydraulics

## OPERATING ENVIRONMENTS






- Low humidity
- Arid environments
- High dust



Product Code	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	0.3 µm absolute ( $\beta_{0.3} \geq 200$ )	0.3 µm absolute ( $\beta_{0.3} \geq 200$ )























































# BREATHING SOLUTIONS

## DESICCANT TYPE KEY

Blue Silica Gel		ZR Gel	
Orange Silica Gel		Molecular Sieve	
Activated Carbon			



## PRODUCT ATTRIBUTES

	Standard	Extended Series®	VentGuard™	HydroGuard®	Extreme Duty	Non-Desiccant	Rebuildable Steel	TDB
Desiccant								
Optional Secondary Desiccant (layered only)								
Sensors (IIoT Capable)		★	★					
Efficient Filter								
Integrated Standpipe								
Impact Resistance								
Vibration Resistance (female thread)						ND-35 ONLY		
Caustic Chemical Resistance								
Check Valves								BOTH OPTIONS AVAILABLE
Expansion Bladder								
Disposable								
Integrated Oil Mist Reducer								
Serviceable								

## SELECT APPLICATIONS

Standard	Extended Series®	VentGuard™	HydroGuard®	Extreme Duty	Non-Desiccant	Rebuildable Steel	TDB
Transformers	Storage Tanks	Gearboxes	Gearboxes	Mobile Equipment	Oil Misting	Bulk Storage	Hydraulic Power Units
Storage Drums	Wind Turbines	Pumps	Mixers/Agitators	Hydraulics	Water Based Fluids	Large Hydraulics	Wind Turbines
Totes	Large Gearboxes/Hydraulics	Hydraulic Power Units	Large Gearboxes	High Vibration/Impact	Gear Drives	Chemical Tanks	Gearboxes
Hydraulics	Oil Misting	Conveying Systems	Cooling Towers	Truck Differentials	Casting Hydraulics	Diesel	Pumps

## EXAMPLE OPERATING ENVIRONMENTS

Standard	Extended Series®	VentGuard™	HydroGuard®	Extreme Duty	Non-Desiccant	Rebuildable Steel	TDB
General Use	Remote Applications	Intermittent Operations	Steady State Operations	Harsh Environments	Low Humidity	High Flow Applications	Harsh Environments
Lubricant Storage Rooms	High Humidity	High Humidity	High Humidity	High Vibration	High Dust	Harsh Environments	High Dust
Indoors	Washdowns	Washdowns	Washdowns	Washdowns	Arid Environments	Harsh Chemicals	Washdowns
Cold Weather Environments	Oil Misting	Low Flow Applications	Low Flow Applications	Impact	Water Based Fluids	High Temperature	Oil Misting

# 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



<b>DC-12-T</b>	<b>Description</b>	PVC Flange Adapter
	<b>Breather Threaded Mount Size</b>	1" Multifit
	<b>Equipment Connection Port/Size</b>	6 Bolt Circular Mounting (Ø 3.5")
	<b>Breathers</b>	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)



<b>DC-13-T</b>	<b>Description</b>	PVC Female to Female Threaded Adapter
	<b>Breather Threaded Mount Size</b>	1" female NPT
	<b>Equipment Connection Port/Size</b>	1" Male NPT
	<b>Breathers</b>	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)



<b>DC-15-T</b>	<b>Description</b>	Aluminum Bayonet Adapter
	<b>Breather Threaded Mount Size</b>	1" Female NPT
	<b>Equipment Connection Port/Size</b>	1 1/2" Bayonet Style
	<b>Breathers</b>	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)



<b>DC-17-T</b>	<b>Description</b>	PVC Female to Male Threaded Adapter
	<b>Breather Threaded Mount Size</b>	1" female NPT
	<b>Equipment Connection Port/Size</b>	3/4" Female NPT
	<b>Breathers</b>	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4), HydroGuard (DC-HG-8)



<b>DC-35</b>	<b>Description</b>	PVC Female to Male Threaded Adapter
	<b>Breather Threaded Mount Size</b>	3/8" Female NPT
	<b>Equipment Connection Port/Size</b>	3/4" Female NPT
	<b>Breathers</b>	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)



<b>DC-36</b>	<b>Description</b>	PVC Female to Male Threaded Adapter
	<b>Breather Threaded Mount Size</b>	3/8" Female NPT
	<b>Equipment Connection Port/Size</b>	1" Male NPT
	<b>Breathers</b>	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)



<b>DC-37</b>	<b>Description</b>	PVC Female to Male Threaded Adapter
	<b>Breather Threaded Mount Size</b>	3/8" Female NPT
	<b>Equipment Connection Port/Size</b>	1/2" Female NPT
	<b>Breathers</b>	Standard Disposable (DC-BB, DC-1), VentGuard (DC-VG-BB, DC-VG-1), HydroGuard (DC-HG-1)



<b>DC-SDVA-12M</b>	<b>Description</b>	Steel Vent Valve Adapter
	<b>Breather Threaded Mount Size</b>	1" Female NPT
	<b>Equipment Connection Port/Size</b>	3/4" Female NPT
	<b>Breathers</b>	Standard Disposable (DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4)



<b>DC-SDVA-16M</b>	<b>Description</b>	Steel Vent Valve Adapter
	<b>Breather Threaded Mount Size</b>	1" Female NPT
	<b>Equipment Connection Port/Size</b>	1" Female NPT
	<b>Breathers</b>	(DC-2, DC-3, DC-4), VentGuard (DC-VG-2, DC-VG-3, DC-VG-4)

EXTENDED SERIES BREATHER ADAPTERS

DC-EXVA-12M



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

DC-EXVA-16M



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

DC-EXA-10



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

DC-EXA-17



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

DC-12-T-SD



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

EXTREME DUTY BREATHER ADAPTERS

DC-XDVA-12M



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

DC-XDVA-16M



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

DC-DSA-17



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

DC-DSA-10



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

# Breather Accessories & Adapters

## VAPORGUARD ADAPTERS

**DC-OVG-6200**



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

**DC-OVG-6220**



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

## BREATHER MANIFOLD ADAPTERS:

**DC-ME-2-T**

**DC-ME-3-T**

**DC-ME-4-T**



<b>Description</b>	PVC Breather Manifold Adapters
<b>Breather Threaded Mount Size</b>	1" Female NPT with 2, 3, or 4 Connections
<b>Equipment Connection Port/Size</b>	2" Female NPT
<b>Breathers</b>	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



<b>Description</b>	Single Position Vacuum Indicator Adapter
<b>Breather Threaded Mount Size</b>	1" Female NPT
<b>Equipment Connection Port/Size</b>	1" Male NPT
<b>Breathers</b>	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



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

DC-OCM5-VI



<b>Description</b>	5" Oil Coalescing Adapter with Single Position Vacuum Indicator
<b>Breather Threaded Mount Size</b>	1" Female NPT
<b>Equipment Connection Port/Size</b>	1" Male NPT
<b>Breathers</b>	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



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

DC-13-10C



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

DC-13-40C



<b>Breather Threaded Mount Size</b>	Steel 4" Female NPT adapter
<b>Equipment Connection Port/Size</b>	8 Bolt Circular Mounting (Ø 9.0")
<b>Breathers</b>	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 to receive a full list of adapters.

## IsoLogic® Sensor Technology

Unlike any breather on the market, IsoLogic has eliminated the subjectivity of color-changing desiccant media, allowing you to know the exact moment your breather is fully spent and should be replaced. Shorten time-consuming, scheduled lube routes by using RFID and Bluetooth technology to collect data on multiple breathers at the same time when syncing them with the IsoLogic app.

- Available in 3 sizes (EX-4, VG-1, VG-4) and in wired and wireless modules
- Decrease the risk of workplace injuries by monitoring breathers installed on remote or hard-to-access equipment
- View all breather statuses and trend data on the web platform from anywhere, anytime. All you need is the internet



IsoLogic detects and records spikes in humidity and water ingress. Early detection of system upsets, avoidance of equipment failures and unplanned downtime saves you money, maintains operational efficiency and provides one less headache for you and your organization.

# Oil Monitoring Solutions



### OIL QUALITY SENSOR

The Oil Quality Sensor (OQS) puts you in control with real-time monitoring of oil degradation and water ingress. Over 60 times more sensitive to oil contamination than any other dielectric constant measuring sensor, it provides real-time monitoring of water ingress and oxidation levels.



### MOISTURE CONTENT SENSOR

The Moisture Content Sensor (MCS) is suitable for most hydraulic and lubricating fluids. The high accuracy and excellent long-term stability make the MCS ideal for online monitoring of moisture in transformer, lubricating and hydraulic fluid, as well as diesel fuel.



### CONTAMINATION MONITORING SENSOR

The CMS in-line contamination monitor automatically measures and displays particulate contamination, moisture and temperature levels in various fluids. It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required, and where space and cost are limited.



### CONDITION MONITORING CENTER

RMF Systems Condition Monitoring Center (CMC) combines technology to enable sampling on low pressure hydraulic and lubrication systems where aeration can be an issue. The CMC suppresses the air bubbles so they are no longer counted as particles. It also allows for continuous particle monitoring on systems where no oil pressure is evident.



### PORTABLE LASER PARTICLE COUNTER

The Portable Laser Particle Counter detects the ISO Cleanliness levels of various media. These compact units are easy to handle for mobile and inline applications for systems with pressures up to 400 bar / 5801 PSI.



### COMPACT LASER PARTICLE COUNTER

A compact, lightweight and budget-friendly particle counter featuring twin laser technology for accurate insight into oil cleanliness levels in your equipment.

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 mobility 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 Oil Transfer Containers integrate breathers and quick connect technology to fully protect lubricants.



LOOK FOR THE ICON and head to [descase.com](http://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
- Filter indication through differential pop-up indicator
- 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 40 - 42 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
- Filter indication through differential pop-up indicator
- 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
- Filter indication through differential pop-up indicator
- 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



## 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.



### Portable Filtration (TC Series 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

### 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



See page 40 - 42 for filter element replacements.

# Filter Units

Maintain oil cleanliness and quality with the RMF Systems filter units. They are offered with and without SMART options for monitoring oil cleanliness and relative humidity. High efficiency elements with  $\beta_4=10.000$  ratio can be one of the many options for efficient filtration.



**Smart Off-Line Unit**



**Off-Line Unit**



**Bypass Unit**



**Giant Off-Line Unit**

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

## 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
- Filter indication through differential pop-up indicator
- 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 40 - 42 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)<sup>1</sup>

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 (45-gallon LT-LMS available with HDPE tanks only)
- 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



<sup>1</sup>Spill containment sold separately



# Portable Filtration



## Mobile Utility Cart

The Des-Case Mobile Utility Cart is the latest offering in fluid storage and handling products to improve process equipment reliability and extend lubricant life. This 3-in-1 mobile system combines filtration, storage, and handling in one simple solution to keep your lubricants clean and dry.

With the ability to deliver multiple oil types to multiple assets, the Mobile Utility Cart is like a portable filtration system, transfer container, and lube room all rolled into one!

### APPLICATIONS

- Storing lubricants
- 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 cart with industrial powder-coated paint
- Option to push, pull with heavy-duty hitch, or lift with forklift pockets
- Removable storage tray for oil transfer containers
- Oil catch pans
- Automatic pump pressure relief valve
- Dual-stage filtration
- Dedicated pump, motor and filter per tank
- HDPE tanks in 35 or 65-gallon volumes
- 12' hose assemblies with various hose-end connections
- 25' cords (for electric motors only)
- Manual bypass
- Rectangular tubing, heavy-duty frame



# Storage & Filtration

## 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, Oil Transfer Containers isolate 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 lid 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



# Dispensing Lid configurations

Make sure you have selected everything you need to make a complete Oil Transfer Container.

- CONTAINER
- DISPENSING LID
- SPOUT



## 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



## DISPENSING LID

Dispensing Lid with Vent Plug (no breather)	DC-OTC-L-D-P-VP
Dispensing Lid with ND-2 Breather	DC-OTC-L-D-P-ND2
Dispensing Lid BB Breather	DC-OTC-L-D-P-BB
Dispensing Lid with 1/2" ISO B Plug & Vent Plug (no breather)	DC-OTC-L-D-1-VP
Dispensing Lid with 1/2" ISO B Plug & ND-2 Breather	DC-OTC-L-D-1-ND2
Dispensing Lid with 1/2" ISO B Plug & BB Breather	DC-OTC-L-D-1-BB
Dispensing Lid with 3/4" ISO B Plug & Vent Plug (no breather)	DC-OTC-L-D-2-VP
Dispensing Lid with 3/4" ISO B Plug & ND-2 Breather	DC-OTC-L-D-2-ND2
Dispensing Lid with 3/4" ISO B Plug & BB Breather	DC-OTC-L-D-2-BB

## 16" EXTENDED SPOUT 1" TIP



Gray	DC-OTC-S-E-16-16-1
Black	DC-OTC-S-E-16-16-2
White	DC-OTC-S-E-16-16-3
Blue	DC-OTC-S-E-16-16-4
Red	DC-OTC-S-E-16-16-5
Yellow	DC-OTC-S-E-16-16-6
Beige	DC-OTC-S-E-16-16-7
Light Green	DC-OTC-S-E-16-16-8
Dark Green	DC-OTC-S-E-16-16-9
Purple	DC-OTC-S-E-16-16-10
Orange	DC-OTC-S-E-16-16-11

## 16" EXTENDED SPOUT 1/4" TIP



Gray	DC-OTC-S-E-16-04-1
Black	DC-OTC-S-E-16-04-2
White	DC-OTC-S-E-16-04-3
Blue	DC-OTC-S-E-16-04-4
Red	DC-OTC-S-E-16-04-5
Yellow	DC-OTC-S-E-16-04-6
Beige	DC-OTC-S-E-16-04-7
Light Green	DC-OTC-S-E-16-04-8
Dark Green	DC-OTC-S-E-16-04-9
Purple	DC-OTC-S-E-16-04-10
Orange	DC-OTC-S-E-16-04-11

### 5" RIGID SPOUT WITH 1" TIP



THESE 11 COLORS ARE AVAILABLE ON ALL SPOUT OPTIONS!

Gray	DC-OTC-S-R-5-16-1
Black	DC-OTC-S-R-5-16-2
White	DC-OTC-S-R-5-16-3
Blue	DC-OTC-S-R-5-16-4
Red	DC-OTC-S-R-5-16-5
Yellow	DC-OTC-S-R-5-16-6
Beige	DC-OTC-S-R-5-16-7
Light Green	DC-OTC-S-R-5-16-8
Dark Green	DC-OTC-S-R-5-16-9
Purple	DC-OTC-S-R-5-16-10
Orange	DC-OTC-S-R-5-16-11

### 8" RIGID SPOUT WITH 1" TIP



Gray	DC-OTC-S-R-8-16-1
Black	DC-OTC-S-R-8-16-2
White	DC-OTC-S-R-8-16-3
Blue	DC-OTC-S-R-8-16-4
Red	DC-OTC-S-R-8-16-5
Yellow	DC-OTC-S-R-8-16-6
Beige	DC-OTC-S-R-8-16-7
Light Green	DC-OTC-S-R-8-16-8
Dark Green	DC-OTC-S-R-8-16-9
Purple	DC-OTC-S-R-8-16-10
Orange	DC-OTC-S-R-8-16-11

### 8" RIGID SPOUT WITH 1/2" TIP



Gray	DC-OTC-S-R-8-08-1
Black	DC-OTC-S-R-8-08-2
White	DC-OTC-S-R-8-08-3
Blue	DC-OTC-S-R-8-08-4
Red	DC-OTC-S-R-8-08-5
Yellow	DC-OTC-S-R-8-08-6
Beige	DC-OTC-S-R-8-08-7
Light Green	DC-OTC-S-R-8-08-8
Dark Green	DC-OTC-S-R-8-08-9
Purple	DC-OTC-S-R-8-08-10
Orange	DC-OTC-S-R-8-08-11

### 8" RIGID SPOUT WITH 1/4" TIP



Gray	DC-OTC-S-R-8-04-1
Black	DC-OTC-S-R-8-04-2
White	DC-OTC-S-R-8-04-3
Blue	DC-OTC-S-R-8-04-4
Red	DC-OTC-S-R-8-04-5
Yellow	DC-OTC-S-R-8-04-6
Beige	DC-OTC-S-R-8-04-7
Light Green	DC-OTC-S-R-8-04-8
Dark Green	DC-OTC-S-R-8-04-9
Purple	DC-OTC-S-R-8-04-10
Orange	DC-OTC-S-R-8-04-11

COMPATIBLE AND INTERCHANGEABLE WITH ALL SPOUTS.



# Pump Lid configurations

Make sure you have selected everything you need to make a complete Oil Transfer Container.

- CONTAINER
- PUMP LID
- PUMP
- COLLAR
- PUMP LID CAP (OPTIONAL)



## 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



## PUMP

Pump with dispensing nozzle, 5 foot hose	DC-OTC-P-D-5
Pump with dispensing nozzle, 10 foot hose	DC-OTC-P-D-10
Pump with 1/2" ISO B coupler, 5 foot hose	DC-OTC-P-B-5
Pump with 1/2" ISO B coupler, 10 foot hose	DC-OTC-P-B-10



DC-OTC-L-P-P-ND2 Shown

## PUMP LID

Pump Lid with Vent Plug (no breather)	DC-OTC-L-P-P-VP
Pump Lid with ND-2 Breather	DC-OTC-L-P-P-ND2
Pump Lid with BB Breather	DC-OTC-L-P-P-BB
Pump Lid with 1/2" ISO B Plug & Vent Plug (no breather)	DC-OTC-L-P-1-VP
Pump Lid with 1/2" ISO B Plug & ND-2 Breather	DC-OTC-L-P-1-ND2
Pump Lid with 1/2" ISO B Plug & BB Breather	DC-OTC-L-P-1-BB
Pump Lid with 3/4" ISO B Plug & Vent Plug (no breather)	DC-OTC-L-P-2-VP
Pump Lid with 3/4" ISO B Plug & ND-2 Breather	DC-OTC-L-P-2-ND2
Pump Lid with 3/4" ISO B Plug & BB Breather	DC-OTC-L-P-2-BB

## PUMP COLOR-CODING COLLAR

Gray	DC-OTC-R-1
Black	DC-OTC-R-2
White	DC-OTC-R-3
Blue	DC-OTC-R-4
Red	DC-OTC-R-5
Yellow	DC-OTC-R-6
Beige	DC-OTC-R-7
Light Green	DC-OTC-R-8
Dark Green	DC-OTC-R-9
Purple	DC-OTC-R-10
Orange	DC-OTC-R-11



# Kits and Accessories

## KITS



**BASIC KIT**



**NON-DESICCANT BREATHER KIT**



**BEST PRACTICE KIT**

<b>Basic Kit</b>	DC-OTC-K-B
<b>Basic Kit 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	
<b>Non-Desiccant Breather Kit</b>	DC-OTC-K-N
<b>ND-2 Kit Includes:</b> (1) of each size container, (2) dispensing lids with vent plugs & ND-2 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 ND-2 breather, (1) yellow pump cap, (1) pump with 5' nozzle hose, (1) yellow pump color-coding ring	
<b>Best Practice Kit</b>	DC-OTC-K-P
<b>Best Practice Kit Includes:</b> (1) of each size container, (2) dispensing lids with ISO B plugs & BB 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 & BB breather, (1) yellow pump cap, (1) 5" pump with ISO B Coupler, (1) yellow pump color-coding ring, (1) lubricant tagging package	

## PUMP LID CAP

Gray	DC-OTC-L-P-C-1
Black	DC-OTC-L-P-C-2
White	DC-OTC-L-P-C-3
Blue	DC-OTC-L-P-C-4
Red	DC-OTC-L-P-C-5
Yellow	DC-OTC-L-P-C-6
Beige	DC-OTC-L-P-C-7
Light Green	DC-OTC-L-P-C-8
Dark Green	DC-OTC-L-P-C-9
Purple	DC-OTC-L-P-C-10
Orange	DC-OTC-L-P-C-11



## LUBRICANT TAGGING COLOR CODING PACKAGE

Lubricant Tagging Package | DC-OTC-C-L



# Vacuum Dehydration

## Vacuum Dehydration Systems (VAC)

Actively filtering moisture from lubricants can prevent contamination-related problems such as oxidation, degradation, and corrosion. Des-Case vacuum dehydration systems remove large quantities of free, emulsified and dissolved water, particulate, and gaseous contamination from petroleum and synthetic-based fluids.



### Mini Water VAC

Offers protection against malfunctions, break downs and total failures. Additionally protecting the environment by reducing oil consumptions and oil disposal.

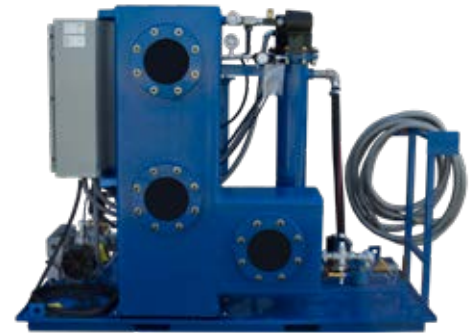
- Continuous Water Ingress
- Air or Gas Problems
- General Water and Contaminant Problems



### Maxi Water VAC

Dehydrates and cleans most types of oil such as lubricating, hydraulic, transformer and switch oils by removing particles, gasses, and water.

- Marine Dredgers/ Thrusters
- Tunneling Machines
- Machine Tool Industry



### Vacuum Dehydration Unit

Designed to remove 100% of free and emulsified water and at least 90% of dissolved water from petroleum and synthetic-based fluids.

- Filtering Hydraulic Systems
- Filtering Steam Turbine Lube Systems
- Almost Any Industrial Equipment Containing Oil

# 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
- 45-gallon LT-Series Lubricant Management Systems

##### Large Spin-On Filters

- Filter Carts
- Drum Filter Carts
- Panel Units
- LT-Series Lubricant Management Systems
- Mobile Utility Cart

#### STANDARD FEATURES

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

### Cartridge Elements - 6x18/6x36

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

- Filter media types: Microfiber glass for particulate removal and microfiber glass with super-absorbent polymer incorporated for water removal (custom filter elements available upon request)
- Performance to  $\beta_{x(c)} \geq 1000$  (per ISO 16889)
- Maximum flow rate: 150 gpm
- Maximum viscosity: ISO VG 1000
- Endcap and center tube: corrosion protected steel
- Gasket material: nitrile
- Collapse pressure rating: 125 psid
- Temperature range: -45°-225°F

## Cartridge Elements - 30/60 Series

Full-flow filter elements provide high-efficiency filtration with low pressure drop. With a high holding capacity, they are ideal for small to medium 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

- Off-Line Units
- By-Pass Units

### STANDARD FEATURES

- Filter media types: Microfiber glass for particulate removal and microfiber glass with super-absorbent polymer incorporated for water removal (custom filter elements available upon request)
- Performance to  $\beta_{x(c)} \geq 1000$  (per ISO 16889)
- Maximum flow rate: 150 gpm
- Maximum viscosity: 850 cSt
- Endcap and center tube: corrosion protected steel
- Gasket material: nitrile
- Collapse pressure rating: 10 bar ( $\Delta p$ )
- Temperature range: -25°-110°C



## Radial Depth Filter Elements

Wound cellulose depth filter elements are an inexpensive method for obtaining high-efficiency filtration in light-viscosity oils such as hydraulic 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

- Off-Line Unit
- By-Pass Unit

### STANDARD FEATURES

- Radial flow through the layers of the media
- Performance  $\beta_{4(c)} \geq 2331$  (per ISO 16889)
- Helps remove soft and hard particles
- Can maintain moisture to levels below 50 ppm



## Axial 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  $\beta_{x(c)} \geq 1000$  (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



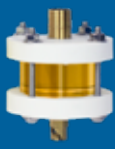


### STANDARD FEATURES

- 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.

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

	360° View	Installs on Drain Port	Collect and Drain Water (Optional Magnet Drain Valve Available)	Stainless Steel Fittings Available	Monitor Oil Level	View Clarity and Color	Additional Benefits
<b>3-D BullsEye®</b> 	✓				✓	✓	<ul style="list-style-type: none"> <li>• See foaming in oil</li> </ul>
<b>Oil Sight Glass</b> 	✓	✓	✓	✓		✓	<ul style="list-style-type: none"> <li>• Various volumes available</li> <li>• Can be installed horizontally for applications with limited space</li> </ul>
<b>High Temperature Oil Sight Glass</b> 	✓	✓	✓	✓		✓	<ul style="list-style-type: none"> <li>• Supports high temp applications up to 450°F</li> <li>• Various volumes available</li> </ul>
<b>Oil Level Indicator</b> 	✓	✓			✓	✓	<ul style="list-style-type: none"> <li>• Filtered or close-looped installation</li> <li>• Optional ND-2 breather</li> </ul>
<b>Oil Sight Glass Level Monitor</b> 	✓	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Dual port available for sampling oil</li> <li>• Filtered or close-looped installation</li> </ul>



Effective oil analysis can aid in monitoring fluid properties, contamination, and wear detection when paired with a desiccant breather and filtration.

## 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 high performance polyamide with level marker stickers, designate running and idle oil levels. Available in a range of heights from 3-30".

#### KEY BENEFITS

- Closed-loop or filtered installation
- Multiple lengths available
- Shown with optional ND-2 breather

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. Versatile polyamide design can be installed vertically or horizontally and is available in 1 or 3 ounces with multiple connections sizes. Additional options include large-volume acrylic in 16 or 32 ounces and a high-temp version.

### 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 1/4" NPT High Temp.	DC-OSG1X250HT
Oil Sight Glass 1 oz X 3/8" NPT	DC-OSG1X375	Oil Sight Glass 1 oz X 3/8" NPT High Temp.	DC-OSG1X375HT
Oil Sight Glass 1 oz X 1/2" NPT	DC-OSG1X500	Oil Sight Glass 1 oz X 1/2" NPT High Temp.	DC-OSG1X500HT
Oil Sight Glass 3 oz X 1/4" NPT	DC-OSG3X250	Oil Sight Glass 3 oz X 1/4" NPT High Temp.	DC-OSG3X250HT
Oil Sight Glass 3 oz X 3/8" NPT	DC-OSG3X375	Oil Sight Glass 3 oz X 3/8" NPT High Temp.	DC-OSG3X375HT
Oil Sight Glass 3 oz X 1/2" NPT	DC-OSG3X500	Oil Sight Glass 3 oz X 1/2" NPT High Temp.	DC-OSG3X500HT
Oil Sight Glass 16 oz X 1/2" NPT	DC-OSG16X500		
Oil Sight Glass 32 oz X 1/2" NPT	DC-OSG32X500		

## 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 3-24".

### 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, so 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 and 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)

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