DES-CASE PRODUCT CATALOG

DES-CASE

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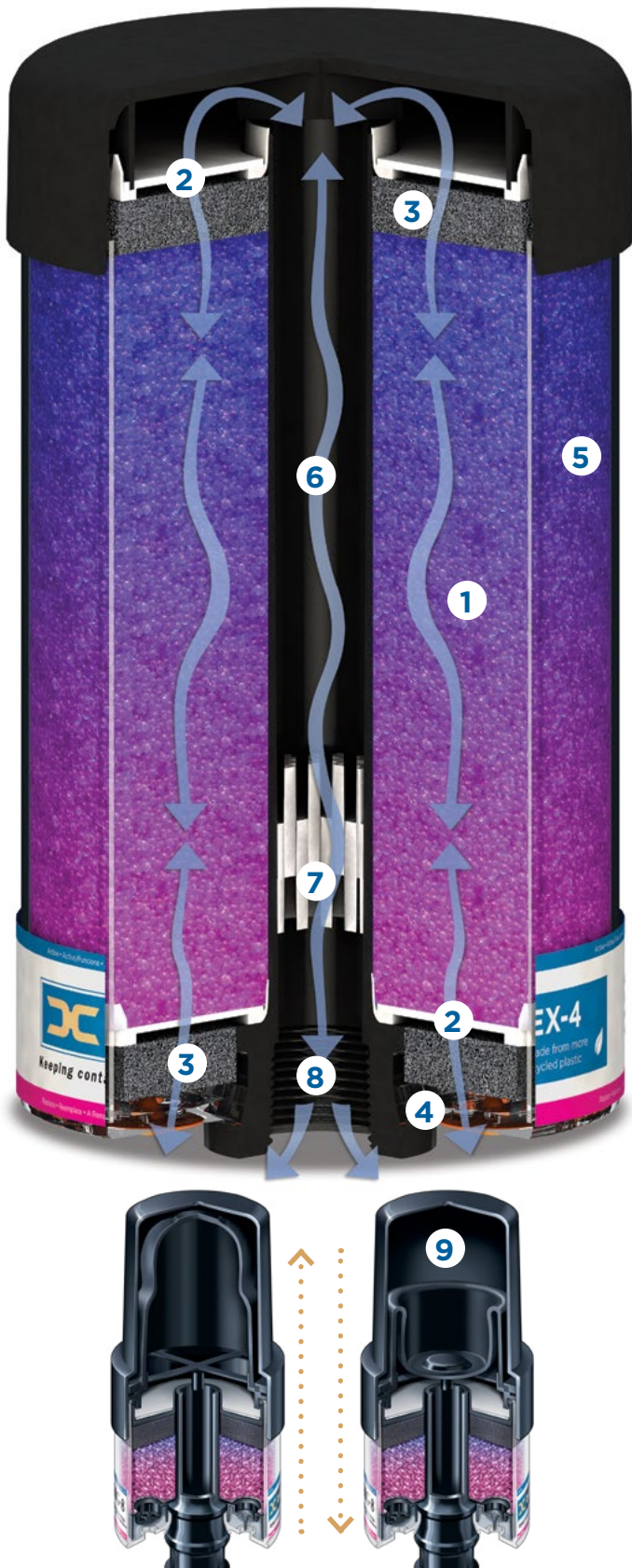
The best part is you'll see a return on investment almost immediately. With fewer breakdowns and production stoppages, you'll run more efficiently and create less waste, all while increasing the working life of your lubricants and equipment.

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.

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/polybutylteraphtalete 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 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 lb / 0.058 kg	.28 lb / 0.127 kg	.66 lb / 0.30 kg	1.22 lb / 0.56 kg	1.88 lb / 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	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)

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 HyrdroGuard 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.

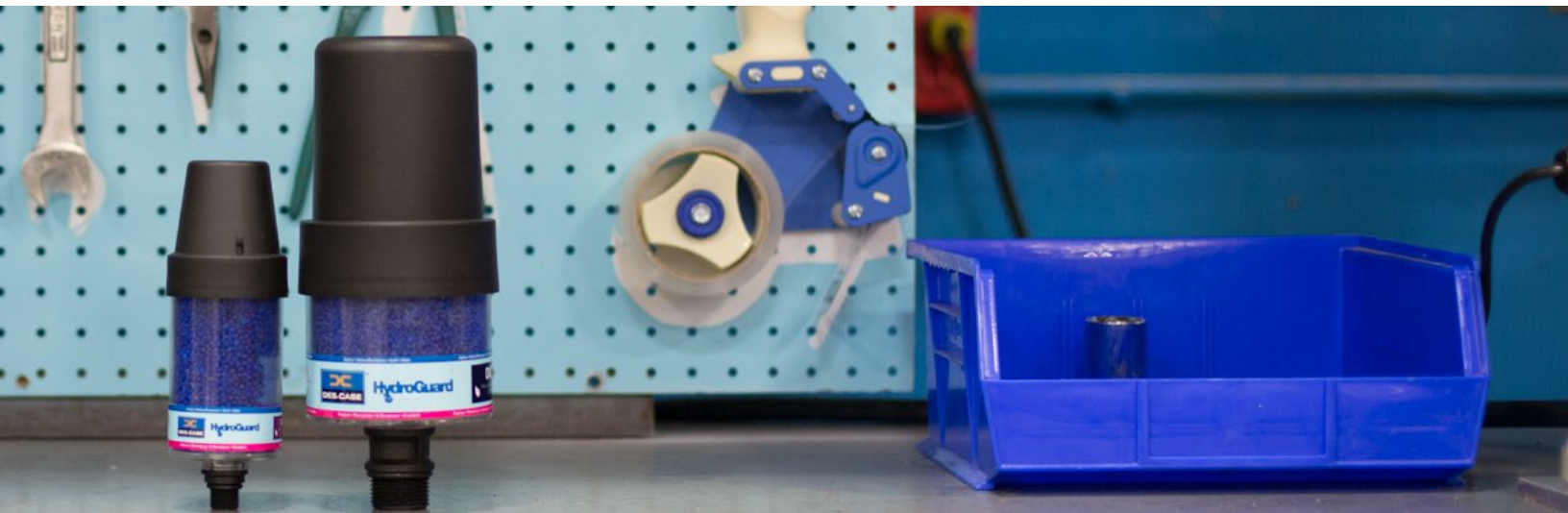| Product Specifications	DC-EX-1	DC-EX-2	DC-EX-3	DC-EX-4
Unit Height	4.7 in / 119 mm	6.4 in / 163 mm	8.3 in / 208 mm	10.0 in / 254 mm
Unit Diameter	5.66 in / 143.88 mm	5.66 in / 143.88 mm	5.66 in / 143.88 mm	5.66 in / 143.88 mm
Connection Size	1" Female (FNPT)	1" Female (FNPT)	1" Female (FNPT)	1" Female (FNPT)
Amount of Silica Gel	1.2 lb / 0.54 kg	2.2 lb / 1.0 kg	3.2 lb / 1.45 kg	4.2 lb / 1.91 kg
Max. Flow Rate	27 @ 1 psid	26 @ 1 psid	25 @ 1 psid	24 @ 1 psid
Filter Efficiency	3 μm absolute ($\beta_3 \geq 200$)	3 μm absolute ($\beta_3 \geq 200$)	3 μm absolute ($\beta_3 \geq 200$)	3 μm absolute ($\beta_3 \geq 200$)

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 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 lb / 0.125 kg	0.65 lb / 0.24 kg
Max. Flow Rate	1.41 @ 1 psid	2.5 @ 1 psid
Filter Efficiency	3 μm absolute ($\beta_3 \geq 200$)	3 μm absolute ($\beta_3 \geq 200$)

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-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 lb / 0.059 kg	0.28 lb / 0.125 kg	0.66 lb / 0.30 kg	1.22 lb / 0.56 kg	1.88 lb / 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	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)	3 µm absolute ($\beta_3 \geq 200$)

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 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 lb / 0.79 kg
Max. Flow Rate	16 @ 1 psid
Filter Efficiency	0.3 μm absolute ($\beta_{0.3} \geq 200$)

See page 16 to 19 for breather adapters.
Full product specifications are available at descase.com.

Titan Series Breathers

RMF
SYSTEMS
A Des-Case Brand

The RMF Systems Titan 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

Type	96 Series	121 Series
Total weight	+ 1,1kg	+ 2kg
Dimensions D x H	±100 x 243 mm	±130 x 267 mm
ZR Gel volume	600 cc	1000 cc
Water absortion	172 gram	288 gram
Maximum air flow	700 l/min	1500 l/min
Absorption material	Non-toxic & Non-carniogenic ZR gel 3-6 mm	
Operating Temperature	- 40°C – 90°C	
Housing material	Copolyester	
Fluid Capacity		
Mineral Oils: H, HL, HLP, HVLP	OK	
HEES Synthetical Ester	OK	
Other Fluids	Contact RMF Systems	

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 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 ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)

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 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 ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)	1 µm absolute ($\beta_1 \geq 1000$)

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.
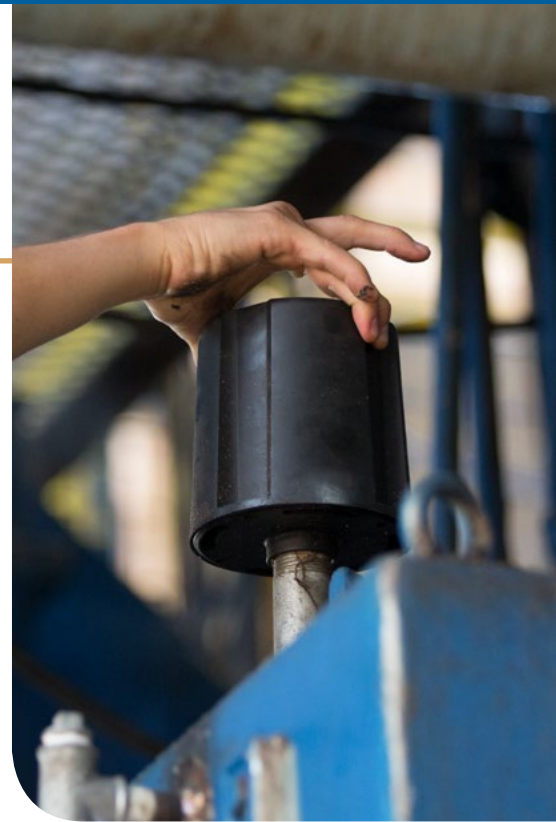
Non-Desiccant Breathers

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

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. It is effective for oil vapor adsorption and can be layered above the silica gel to protect the desiccant.

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 molecular sieve are ideal for customers needing to increase total adsorption capacity, ideally in situations where the headspace humidity is kept low (< 40% RH).

Contact Des-Case at 615.672.8800 or at sales@descase.com for help choosing the correct medium for your application.

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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)

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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" Male 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-SD

Description	Steel Threaded Flange Adapter
Breather Threaded Mount Size	1" Male 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

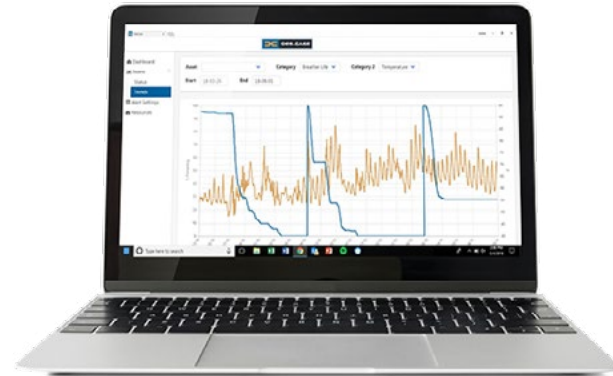| Breather Threaded Mount Size	Steel 3″ Female NPT adapter
Equipment Connection Port/Size	4 Bolt Circular Mounting (Ø 7.5″)
Breathers	Rebuildable Steel Breathers (DC-RS-15, DC-RS-25, DC-RS-50, DC-RS-75)

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 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. Decrease the risk of workplace injuries by monitoring breathers installed on remote or hard-to-access equipment. Whether you're on a plane, in the office or at home, 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.

615.672.8800 • descase.com

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

The 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 PORTABLE COUNTER

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

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

LOOK FOR THE ICON and head to 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 & 41 for filter element replacements.
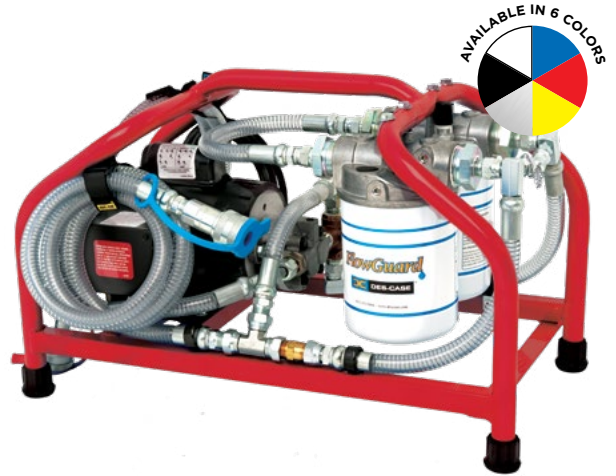
Portable Filtration

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.

AVAILABLE IN 6 COLORS

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.

AVAILABLE IN 6 COLORS

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

www.comoso.com

Filter Units

RMF
S Y S T E M S
A Des-Case Brand

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 ß4=10.000 ratio can be one of the many options for efficient filtration.

OffLine Unit

Smart OffLine Unit

Bypass Unit

Giant OffLine Unit

Full product specifications are available at descase.com/rmf.

www.comoso.com

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

AVAILABLE IN 6 COLORS

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 & 41 for filter element replacements.

615.672.8800 • descase.com

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.
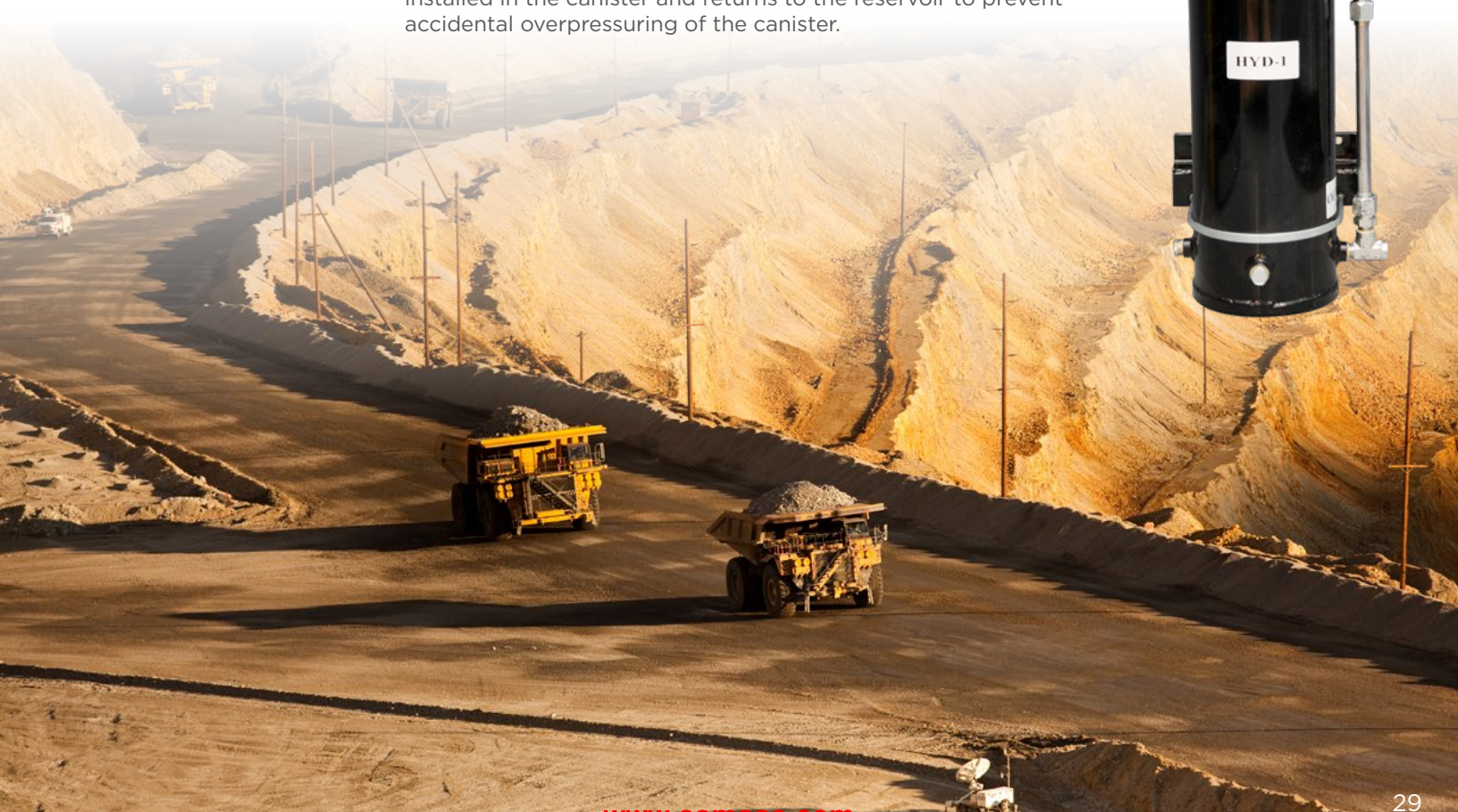
ENGINE KITS

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)[1]

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 ingression.

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

[1]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 IsoLink™ 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

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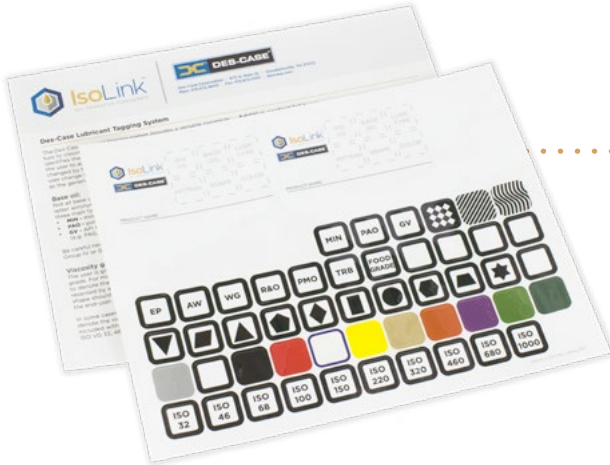
Three sizes available:
1 gallon/4 liters, 1.8 gallons/7 liters, 2.6 gallons/10 liters.

IsoLink®
OIL TRANSFER CONTAINER

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® Dispensing Lid configurations

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

✓ **CONTAINER**   ✓ **DISPENSING LID**   ✓ **SPOUT**

DC-OTC-L-D-B-BB Shown

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

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

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

IsoLink®
OIL TRANSFER CONTAINER

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.

IsoLink® Pump Lid configurations

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

☑ **CONTAINER**   ☑ **PUMP LID**   ☑ **PUMP**   ☑ **COLLAR**   ☑ **PUMP LID CAP**
(OPTIONAL)

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

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

DC-OTC-P-B-10 Shown

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

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

IsoLink® Kits and Accessories

IsoLink®
OIL TRANSFER CONTAINER

ISOLINK® KITS

BASIC KIT

NON-DESICCANT BREATHER KIT

BEST PRACTICE KIT

Basic Kit	DC-OTC-K-B

Basic Kit Includes: (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

ND-2 Kit Includes: (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

Best Practice Kit	DC-OTC-K-P

Best Practice Kit Includes: (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

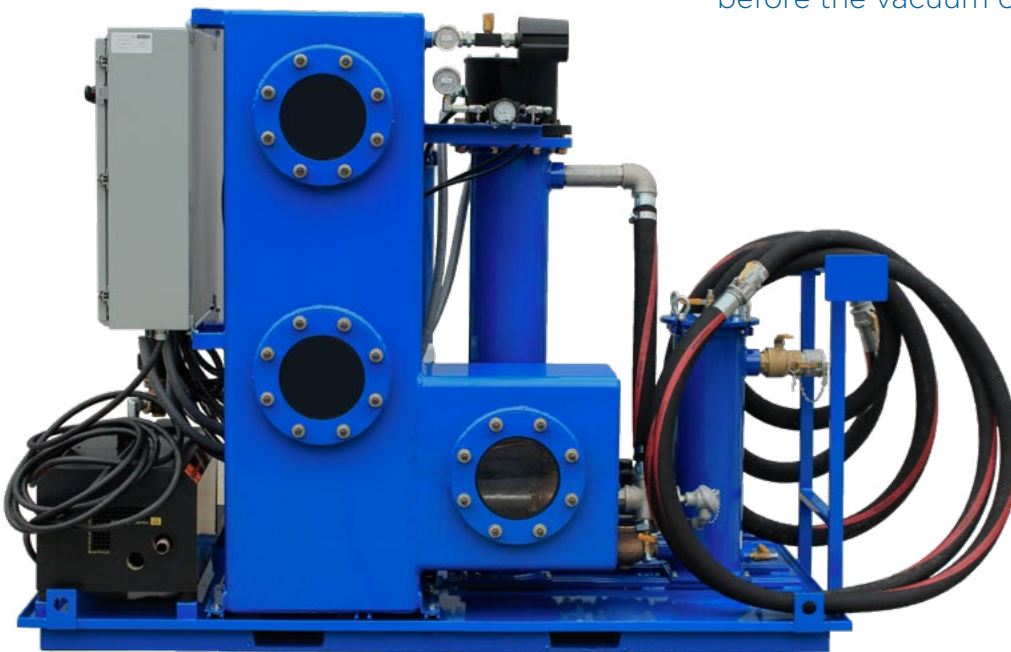## Vacuum Dehydration System (VAC)

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
- Microglass filter media after the vacuum chamber additionally removes particulates from the oil
- Temperature-controlled immersion heater before the vacuum chamber

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)

GEARBOX ADAPTER KIT

HYDRAULIC ADAPTER KIT

DRAIN PORT ADAPTER KIT

DRUM ADAPTER KIT

TOTE ADAPTER KIT

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

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

- 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 ß < 3(c) = 1000 (per ISO 16889)
- Microfiber glass epoxy coated wire support
- Maximum flow rate of 150 gpm at 680 cSt through 6″x18″ size 3 micron microglass media
- 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
- Replacement pressure: 40 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 ß < 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 for full filter specifications.

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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.
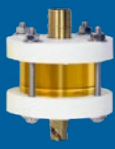
APPLICATIONS

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

3-D BULLSEYE® VS. DIRTY OEM VIEWPORTS

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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
3-D BullsEye®	✓				✓	✓	• See foaming in oil
Oil Sight Glass	✓	✓	✓	✓		✓	• Various volumes available • Can be installed horizontally for applications with limited space
High Temperature Oil Sight Glass	✓	✓	✓	✓		✓	• Supports high temp applications up to 450°F • Various volumes available
Oil Level Indicator	✓	✓			✓	✓	• Filtered or close-looped installation • Optional ND-2 breather
Oil Sight Glass Level Monitor	✓	✓	✓	✓	✓	✓	• Dual port available for sampling oil • Filtered or close-looped installation

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 acrylic column 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 contaminates 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 contaminates
• 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

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