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

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

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

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

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

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

Giving you more uptime and less repair.

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

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

Turn this page if you want to protect your most important assets... your oil and equipment.
The First Line of Defense Against Contamination

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

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

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

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

We’re so confident you’ll love the results you see when using our breathers that we’ll even send you one to try completely free – descase.com/sample.
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

<table>
<thead>
<tr>
<th>Product Specifications</th>
<th>DC-BB</th>
<th>DC-1</th>
<th>DC-2</th>
<th>DC-3</th>
<th>DC-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Height</td>
<td>3.90 in / 99.06 mm</td>
<td>5.31 in / 134.9 mm</td>
<td>6.125 in / 155.6 mm</td>
<td>8.125 in / 206.4 mm</td>
<td>10.125 in / 257.2 mm</td>
</tr>
<tr>
<td>Unit Diameter</td>
<td>2.52 in / 64.1 mm</td>
<td>2.52 in / 64.1 mm</td>
<td>4 in / 101.6 mm</td>
<td>4 in / 101.6 mm</td>
<td>4 in / 101.6 mm</td>
</tr>
<tr>
<td>Connection Size</td>
<td>3/8” Multi-Fit (NPT, BSPP, BSPT)</td>
<td>3/8” Multi-Fit (NPT, BSPP, BSPT)</td>
<td>1” Multi-Fit (NPT, BSPP, BSPT)</td>
<td>1” Multi-Fit (NPT, BSPP, BSPT)</td>
<td>1” Multi-Fit (NPT, BSPP, BSPT)</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>0.13 lbs / 0.058 kg</td>
<td>0.28 lbs / 0.127 kg</td>
<td>0.66 lbs / 0.30 kg</td>
<td>1.22 lbs / 0.56 kg</td>
<td>1.88 lbs / 0.84 kg</td>
</tr>
<tr>
<td>Max. Flow Rate</td>
<td>4.55 @ 1 psid cfm</td>
<td>4.16 @ 1 psid cfm</td>
<td>16 @ 1 psid cfm</td>
<td>16 @ 1 psid cfm</td>
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<td>3µ absolute (β₃=200)</td>
<td>3µ absolute (β₃=200)</td>
<td>3µ absolute (β₃=200)</td>
</tr>
</tbody>
</table>

Visit descase.com/sample to get yours!
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

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

OPERATING ENVIRONMENTS:
- Harsh Environments
- High Vibration/Impact
- Washdowns

### Product Specifications

<table>
<thead>
<tr>
<th></th>
<th>DC-EX-1</th>
<th>DC-EX-2</th>
<th>DC-EX-3</th>
<th>DC-EX-4</th>
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<tbody>
<tr>
<td>Unit Height</td>
<td>4.7 in / 119 mm</td>
<td>6.4 in / 163 mm</td>
<td>8.3 in / 208 mm</td>
<td>10.0 in / 254 mm</td>
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<tr>
<td>Unit Diameter</td>
<td>5.66 in / 143.88 mm</td>
<td>5.66 in / 143.88 mm</td>
<td>5.66 in / 143.88 mm</td>
<td>5.66 in / 143.88 mm</td>
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<td>Connection Size</td>
<td>1” Female (FNPT)</td>
<td>1” Female (FNPT)</td>
<td>1” Female (FNPT)</td>
<td>1” Female (FNPT)</td>
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<tr>
<td>Amount of Silica Gel</td>
<td>1.2 lbs / 0.54 kg</td>
<td>2.2 lbs / 10 kg</td>
<td>3.2 lbs / 145 kg</td>
<td>4.2 lbs / 191 kg</td>
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<td>Max. Flow Rate</td>
<td>27 @ 1 psid</td>
<td>26 @ 1 psid</td>
<td>25 @ 1 psid</td>
<td>24 @ 1 psid</td>
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<td>Filter Efficiency</td>
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<td>0.1µ absolute (β3 ≥ 200)</td>
<td>0.1µ absolute (β3 ≥ 200)</td>
<td>0.1µ absolute (β3 ≥ 200)</td>
</tr>
</tbody>
</table>

### Extreme Duty Breathers

The Extreme Duty (XD) breather has excellent vibration and impact resistance, can withstand broad temperature ranges, has expansive chemical compatibility, and features quality check valve technology while still accommodating higher air flow. The XD breather also has the best filter efficiency of our entire breather line capturing particles down to 0.3µ absolute (β3 ≥ 200).

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

OPERATING ENVIRONMENTS:
- Harsh Environments
- High Vibration/Impact
- Washdowns

### Product Specifications

<table>
<thead>
<tr>
<th></th>
<th>DC-XD-6</th>
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</thead>
<tbody>
<tr>
<td>Unit Height</td>
<td>6.51 in / 165.4 mm</td>
</tr>
<tr>
<td>Unit Diameter</td>
<td>5.1 in / 129.5 mm</td>
</tr>
<tr>
<td>Connection Size</td>
<td>1 1/2″ Female X 16 UN female thread</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>1.75 lbs / 0.79 kg</td>
</tr>
<tr>
<td>Max. Flow Rate</td>
<td>16 @ 1 psid</td>
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<tr>
<td>Filter Efficiency</td>
<td>0.3µ absolute (β3 ≥ 200)</td>
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</tbody>
</table>

See page 18 to 21 for breather adapters. Full product specifications are available at descase.com.
**HydroGuard® Breathers**

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

**APPLICATIONS:**
- Gearboxes
- Mixers/Agitators
- Cooling Towers
- Low-Flow Applications

**Operating Environments:**
- Steady-State Operations
- High Humidity
- Washdowns

**Product Specifications**

<table>
<thead>
<tr>
<th></th>
<th>DC-HG-1</th>
<th>DC-HG-8</th>
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<tr>
<td>Unit Height</td>
<td>7.22 in / 183 mm</td>
<td>9.75 in / 247.66 mm</td>
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<tr>
<td>Unit Diameter</td>
<td>2.52 in / 64 mm</td>
<td>4.1 in / 104.1 mm</td>
</tr>
<tr>
<td>Connection Size</td>
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<td>1&quot; Multi-Fit (NPT, BSPP, BSPT)</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>0.28 lbs / 0.125 kg</td>
<td>0.65 lbs / 0.24 kg</td>
</tr>
<tr>
<td>Max. Flow Rate</td>
<td>1.45 @ 1 psid</td>
<td>2.5 @ 1 psid</td>
</tr>
<tr>
<td>Filter Efficiency</td>
<td>3µ absolute (β₃≥200)</td>
<td>3µ absolute (β₃≥200)</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th></th>
<th>DC-VG-BB</th>
<th>DC-VG-1</th>
<th>DC-VG-2</th>
<th>DC-VG-3</th>
<th>DC-VG-4</th>
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</thead>
<tbody>
<tr>
<td>Unit Height</td>
<td>3.90 in / 99.06 mm</td>
<td>5.31 in / 134.9 mm</td>
<td>6.125 in / 156.6 mm</td>
<td>8.125 in / 206.4 mm</td>
<td>10.125 in / 257.2 mm</td>
</tr>
<tr>
<td>Unit Diameter</td>
<td>2.52 in / 64.01 mm</td>
<td>2.25 in / 64.01 mm</td>
<td>4 in / 101.6 mm</td>
<td>4 in / 101.6 mm</td>
<td>4 in / 101.6 mm</td>
</tr>
<tr>
<td>Connection Size</td>
<td>3/8&quot; Multi-Fit (NPT, BSPP, BSPT)</td>
<td>5/8&quot; Multi-Fit (NPT, BSPP, BSPT)</td>
<td>1&quot; Multi-Fit (NPT, BSPT, NPSM)</td>
<td>1&quot; Multi-Fit (NPT, BSPT, NPSM)</td>
<td>1&quot; Multi-Fit (NPT, BSPT, NPSM)</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>0.13 lbs / 0.059 kg</td>
<td>0.28 lbs / 0.125 kg</td>
<td>0.66 lbs / 0.30 kg</td>
<td>1.22 lbs / 0.56 kg</td>
<td>1.88 lbs / 0.84 kg</td>
</tr>
<tr>
<td>Max. Flow Rate</td>
<td>1.45 @ 1 psid</td>
<td>1.45 @ 1 psid</td>
<td>2.5 @ 1 psid</td>
<td>2.28 @ 1 psid</td>
<td>1.8 @ 1 psid</td>
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<tr>
<td>Filter Efficiency</td>
<td>3µ absolute (β₃≥200)</td>
<td>3µ absolute (β₃≥200)</td>
<td>3µ absolute (β₃≥200)</td>
<td>3µ absolute (β₃≥200)</td>
<td>3µ absolute (β₃≥200)</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>Product Specifications</th>
<th>DC-RS-3</th>
<th>DC-RS-5</th>
<th>DC-RS-9</th>
<th>DC-RS-15</th>
<th>DC-RS-25</th>
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</thead>
<tbody>
<tr>
<td>Unit Height</td>
<td>11.5 in / 292 mm</td>
<td>13.75 in / 349 mm</td>
<td>18.25 in / 464 mm</td>
<td>19.25 in / 489 mm</td>
<td>22.5 in / 571 mm</td>
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<tr>
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<td>10.13 in / 257.2 mm</td>
<td>10.13 in / 257.2 mm</td>
<td>10.13 in / 257.2 mm</td>
<td>15.5 in / 393.7 mm</td>
<td>15.5 in / 393.7 mm</td>
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<td>2” NPT</td>
<td>2” NPT</td>
<td>3” NPT</td>
<td>3” NPT</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>3 lbs / 1.36 kg</td>
<td>5 lbs / 2.27 kg</td>
<td>9 lbs / 4.08 kg</td>
<td>15 lbs / 6.80 kg</td>
<td>25 lbs / 11.34 kg</td>
</tr>
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<td>85 @ 0.5 psid</td>
<td>80 @ 0.5 psid</td>
<td>205 @ 0.5 psid</td>
<td>140 @ 0.5 psid</td>
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<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
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<table>
<thead>
<tr>
<th>Product Specifications</th>
<th>DC-RS-50</th>
<th>DC-RS-75</th>
<th>DC-RS-100</th>
<th>DC-RS-150</th>
<th>DC-RS-200</th>
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</thead>
<tbody>
<tr>
<td>Unit Height</td>
<td>31.25 in / 794 mm</td>
<td>29.75 in / 755 mm</td>
<td>31 in / 787 mm</td>
<td>36.75 in / 933 mm</td>
<td>42.75 in / 1086 mm</td>
</tr>
<tr>
<td>Unit Diameter</td>
<td>15.5 in / 393.7 mm</td>
<td>15.5 in / 393.7 mm</td>
<td>23.5 in / 596.9 mm</td>
<td>23.5 in / 596.9 mm</td>
<td>23.5 in / 596.9 mm</td>
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<tr>
<td>Connection Size</td>
<td>3” NPT</td>
<td>3” NPT</td>
<td>4” NPT</td>
<td>4” NPT</td>
<td>4” NPT</td>
</tr>
<tr>
<td>Amount of Silica Gel</td>
<td>50 lbs / 22.68 kg</td>
<td>75 lbs / 34.02 kg</td>
<td>100 lbs / 45.36 kg</td>
<td>150 lbs / 68.04 kg</td>
<td>200 lbs / 90.72 kg</td>
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<td>Max. Flow Rate</td>
<td>115 @ 1 psid cfm</td>
<td>80 @ 1 psid cfm</td>
<td>270 @ 1 psid cfm</td>
<td>250 @ 1 psid cfm</td>
<td>240 @ 1 psid cfm</td>
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<tr>
<td>Filter Efficiency</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
<td>1 µ absolute (β₁ ≥ 1000)</td>
</tr>
</tbody>
</table>
Non-Desiccant (ND) breathers prevent contamination ingress in low humidity environments or in applications where water-based fluids are in use (e.g. water glycol hydraulic fluid). They help control contamination by preventing free water as well as particles down to 1 micron from getting into the reservoir.

**APPLICATIONS:**
- Oil Misting
- Water-Based Fluids
- Oil Sight Glasses
- Gear Drives
- Casting Hydraulics

**OPERATING ENVIRONMENTS:**
- Low Humidity
- Arid Environments
- High Dust

---

**Product Specifications**

<table>
<thead>
<tr>
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<th>DC-ND-2</th>
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<tbody>
<tr>
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<td>1.35 in / 34.3 mm</td>
<td>5 in / 127 mm</td>
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<tr>
<td>Unit Diameter</td>
<td>1.80 in / 45.7 mm</td>
<td>5 in / 127 mm</td>
</tr>
<tr>
<td>Connection Size</td>
<td>3/8&quot;</td>
<td>1&quot; Female (FNPT)</td>
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<tr>
<td>Max. Flow Rate</td>
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<td>40 @ 1 psid</td>
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<td>Filter Efficiency</td>
<td>0.3µ absolute (β0.3 ≥ 200)</td>
<td>0.3µ absolute (β0.3 ≥ 200)</td>
</tr>
</tbody>
</table>

---

**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.

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

**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.

**LAYERED (BLUE SILICA GEL & MOLECULAR SIEVE)**
Mixing medias such as silica gel and activated carbon are ideal for customers needing to adsorb both moisture and fumes simultaneously.

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

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Contact Des-Case at 615.672.8800 or at sales@descase.com for help choosing the correct media for your application.
Breather Accessories & Adapters

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

### ADAPTERS & ACCESSORIES:

#### DC-12-T
- **Description**: PVC Flange Adapter
- **Breather Threaded Mount Size**: ¾” NPT
- **Equipment Connection Port/Size**: 6 Bolt Circular Mounting (Ø 3.5”)
- **Breathers**:
  - Standard Disposable (DC-2, DC-3, DC-4), VentGuard (VG-2, VG-3, VG-4), HydroGuard (HG-6, HG-8)

#### DC-13-T
- **Description**: PVC Female to Female Threaded Adapter
- **Breather Threaded Mount Size**: ¾” NPT
- **Equipment Connection Port/Size**: 6 Bolt Circular Mounting (Ø 3.5”)
- **Breathers**:
  - Standard Disposable (DC-2, DC-3, DC-4), VentGuard (VG-2, VG-3, VG-4), HydroGuard (HG-6, HG-8)

#### DC-15-T
- **Description**: Aluminum Bayonet Adapter
- **Breather Threaded Mount Size**: ¾” Male NPT
- **Equipment Connection Port/Size**: 6 Bolt Circular Mounting (Ø 3.5”)
- **Breathers**:
  - Standard Disposable (DC-2, DC-3, DC-4), VentGuard (VG-2, VG-3, VG-4), HydroGuard (HG-6, HG-8)

#### BREATHER ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Port/Size</th>
<th>Connection</th>
<th>Equipment</th>
<th>Mount Size</th>
<th>Breather Threaded</th>
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<tbody>
<tr>
<td>PVC Female to Male Threaded Adapter</td>
<td>3/8” Female NPT</td>
<td>Steel Vent Valve</td>
<td>1/2” Male NPT</td>
<td>6 Bolt Circular (Ø 3.5”)</td>
<td>1” Female NPT</td>
<td>Ext-1, Ext-2, Ext-3, Ext-4</td>
</tr>
<tr>
<td>PVC Female to Male Threaded Adapter</td>
<td>3/8” Female NPT</td>
<td>Steel Vent Valve</td>
<td>1/2” Male NPT</td>
<td>6 Bolt Circular (Ø 3.5”)</td>
<td>1” Female NPT</td>
<td>Ext-1, Ext-2, Ext-3, Ext-4</td>
</tr>
<tr>
<td>PVC Female to Female Threaded Adapter</td>
<td>¾” Female NPT</td>
<td>Steel Vent Valve</td>
<td>1” Female NPT</td>
<td>6 Bolt Circular (Ø 3.5”)</td>
<td>1” Female NPT</td>
<td>Ext-1, Ext-2, Ext-3, Ext-4</td>
</tr>
</tbody>
</table>

#### EXTENDED SERIES BREATHER ADAPTERS:

#### DC-EXVA-12M
- **Description**: Steel Vent Valve Adapter
- **Breather Threaded Mount Size**: ¾” 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-EXVA-16M
- **Description**: Steel Vent Valve Adapter
- **Breather Threaded Mount Size**: ¾” 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 Threading 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-EX-17
- **Description**: Steel Threading 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-12-T-EX
- **Description**: Steel Threading 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)

#### DC-EX-17
- **Description**: Steel Threading 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-XDVA-12M
- **Description**: Steel Vent Valve Adapter
- **Breather Threaded Mount Size**: 1¼”-16 UN Male
- **Equipment Connection Port/Size**: 1¼”-16 UN Female
- **Breathers**:
  - Extreme Duty Breather (VG-2, VG-4)

#### DC-XDVA-16M
- **Description**: Steel Vent Valve Adapter
- **Breather Threaded Mount Size**: 1¼”-16 UN Male
- **Equipment Connection Port/Size**: 1¼”-16 UN Female
- **Breathers**:
  - Extreme Duty Breather (VG-2, VG-4)

#### CONCLUSION

Breather Accessories & Adapters provide a wide range of options for different equipment needs, ensuring optimal performance and durability in various applications. Choose from our selection of adapters and accessories to enhance your equipment's functionality and reliability.
## Breather Accessories & Adapters

### Breather Accessories & Adapters

<table>
<thead>
<tr>
<th>Description</th>
<th>DC-OVG-6200</th>
</tr>
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<tbody>
<tr>
<td>Description</td>
<td>Single Length Oil Mist Adapter</td>
</tr>
<tr>
<td>Breather Threaded Mount Size</td>
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</tr>
<tr>
<td>Equipment Connection Port/Size</td>
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<td>Breathers</td>
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<tr>
<th>Description</th>
<th>DC-OVG-620</th>
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<tbody>
<tr>
<td>Description</td>
<td>Double Length Oil Mist Adapter</td>
</tr>
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<td>Breather Threaded Mount Size</td>
<td>3/8&quot;, 3/4&quot;, or 1&quot; Female NPT</td>
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<tr>
<td>Equipment Connection Port/Size</td>
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<tr>
<td>Breather Threaded Mount Size</td>
<td>1&quot; Female NPT</td>
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<tr>
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<tr>
<td>Breathers</td>
<td>Non-Desiccant Breather (DC-N2-35)</td>
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<tr>
<td>Breather Threaded Mount Size</td>
<td>Steel 2&quot; Female NPT adapter</td>
</tr>
<tr>
<td>Equipment Connection Port/Size</td>
<td>4 Bolt Circular Mounting (Ø 6&quot;)</td>
</tr>
<tr>
<td>Breathers</td>
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<td>Breathers</td>
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Rebuildable steel breather adapters are also available in stainless steel. Call for quote and availability.
FLUID HANDLING

Customizable, Quality Solutions for Your Contamination Control Program

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

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

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

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

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.

LOOK FOR THE ICON and head to descase.com to customize yours today!

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

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

APPLICATIONS:
- Decontaminating systems
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FEATURES:
- Automatic pressure relief valve
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- Optional manual filter bypass
- Various sample valve options
- Industrial powder-coated paint available in six colors

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.
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.

**APPLICATIONS:**
- Decontaminating systems
- Flushng new or repaired systems
- Dispensing new oil
- Pre-filtering new oil
- Evacuating used oil
- Reservoir top-offs
- Collecting oil samples for analysis

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

---

**See page 40 & 41 for filter element replacements.**
Dedicated Filtration

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

APPLICATIONS:
• Decontaminating systems
• Cooling systems
• Collecting oil samples for analysis

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

Also available: Compact Panel Unit
Designed for critical applications and difficult-to-access equipment, the compact panel unit is 60% smaller than the standard panel unit.

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 overpressuring 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.

See page 40 & 41 for filter element replacements.
LT-Series Lubricant Management System (LT-LMS)
Simple, stackable, and easy storage meets solid contamination control practices in a unique design with the LT-LMS. Dedicated filtration per container ensures no cross-contamination of fluids, while desiccant breathers prevent dirt and water 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
• 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

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

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

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

See page 40 & 41 for filter element replacements.
IsoLink™ Oil Transfer Containers
The first best practice solution to keep oil clean and dry during oil transfer. With non-desiccant and desiccant breather options, as well as quick connects for clean filling, IsoLink isolates oil from the environment providing the ultimate in best practice contamination control.

APPLICATIONS:
• Transferring small volumes of oil
• Topping off reservoirs
• Small volume storage

LIDS
Optional non-desiccant or desiccant breathers keep oil clean and dry while in the container.
An optional ISO B quick connect allows new, pre-filtered oil to be added to the container without exposing it to the atmosphere.
The trigger mechanism in the dispensing lid keeps fluid isolated until engaged, controlling moisture and contamination. It also enables variable flow control when dispensing.

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

CONTAINERS
Industrial-grade HDPE containers will not chemically react with oil or additive packages. The square design provides 27% more storage capacity than round containers.
Three sizes available:
1 gallon/4 liters, 1.8 gallons/7 liters, 2.6 gallons/10 liters.

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

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

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

Make sure you have selected everything you need to make a complete IsoLink 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

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
- 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

THESE 11 COLORS ARE AVAILABLE ON ALL SPOUT OPTIONS!

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!

Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com
### IsoLink Pump Lid configurations

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

<table>
<thead>
<tr>
<th>CONTAINER</th>
<th>PUMP LID</th>
<th>PUMP</th>
<th>COLLAR</th>
<th>PUMP LID CAP (OPTIONAL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gallon / 4 Liter Container</td>
<td>DC-OTC-C-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.8 Gallon / 7 Liter Container</td>
<td>DC-OTC-C-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.6 Gallon / 10 Liter Container</td>
<td>DC-OTC-C-10</td>
<td></td>
<td></td>
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</table>

### 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 LID

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

### PUMP 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

**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**

- Includes: (1) of each size container, (2) dispensing lids with vent plugs & non-desiccant breathers, (1) blue 5” spout with 1” tip, (1) red 6” spout with 1/2” tip, (1) black 16” extended spout with 1” tip, (1) pump lid with non-desiccant breather, (1) yellow pump cap, (1) pump with 5’ nozzle hose, (1) yellow pump color-coding ring

**Best Practice Kit**

- Includes: (1) of each size container, (2) dispensing lids with ISO B plugs & desiccant breathers, (1) blue 5” spout with 1” tip, (1) red 8” spout with 1/2” tip, (1) black 16” extended spout with 1” tip, (1) pump lid with ISO B plug & desiccant breather, (1) yellow pump cap, (1) 5’ pump with ISO B Coupler, (1) yellow pump color-coding ring, (1) lubricant tagging package

### LUBRICANT TAGGING COLOR CODING PACKAGE

- 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

Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com
Vacuum Dehydration

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

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

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

Adapter Kits

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

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

DES-CASE QUICK TIP

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

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

REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:
- Small Spin-On Filters
  - Drum Toppers
- Large Spin-On Filters
  - Filter Carts
  - Drum Filter Carts

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

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

REPLACEMENTS FOR DES-CASE FILTRATION PRODUCTS:
- TC Series Filter Cart and T-Stand
- VAC Series Vacuum Dehydrators

STANDARD FEATURES:
- Four filter media types: Microfiber glass, water removal molecular sieve, acid removal activated alumina, and acid removal with Selexorb®
- Performance to 8x<3(c)=1000 (per ISO 16889)
- Microfiber glass epoxy coated wire support
- Maximum differential pressure: 150 psi
- Maximum flow rate: 150 gpm
- Maximum viscosity: ISO VG 1000
- Endcap & center tube: corrosion protected steel
- Gasket material: nitrile
- Collapse pressure rating: 125 psid
- Temperature range: -45°F to 225°F
- Replacement pressure: 25 psid

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 8x<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.
Monitor the health and level of your lubricants with Des-Case Visual Oil Analysis products.

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

### 3-D BullsEye® VS. DIRTY OEM VIEWPORTS

#### DES-CASE QUICK TIP
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

<table>
<thead>
<tr>
<th>3-D BullsEye® Size</th>
<th>DC-3DBB</th>
<th>DC-3DBMP</th>
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</thead>
<tbody>
<tr>
<td>1/4” BSPP</td>
<td>DC-3DBB0250</td>
<td>DC-3DBMP0250</td>
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<tr>
<td>3/8” BSPP</td>
<td>DC-3DBB0400</td>
<td>DC-3DBMP0400</td>
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<tr>
<td>1/2” BSPP</td>
<td>DC-3DBB0500</td>
<td>DC-3DBMP0500</td>
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<tr>
<td>3/4” BSPP</td>
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<td>DC-3DBMP0750</td>
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<tr>
<td>1” BSPP</td>
<td>DC-3DBB1000</td>
<td>DC-3DBMP1000</td>
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<tr>
<td>1-1/4” BSPP</td>
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<td>1-3/4” BSPP</td>
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<td>2-1/2” BSPP</td>
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<td>DC-3DBMP3000</td>
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<td>DC-3DBMP3500</td>
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<td>4” BSPP</td>
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<td>DC-3DBMP4000</td>
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<td>4-1/2” BSPP</td>
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<td>DC-3DBMP4500</td>
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<td>DC-3DBB5500</td>
<td>DC-3DBMP5500</td>
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<tr>
<td>6” BSPP</td>
<td>DC-3DBB6000</td>
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<td>6-1/2” BSPP</td>
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<td>8-1/2” BSPP</td>
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<td>9” BSPP</td>
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<td>9-1/2” BSPP</td>
<td>DC-3DBB9500</td>
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<tr>
<td>10” BSPP</td>
<td>DC-3DBB10000</td>
<td>DC-3DBMP10000</td>
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</tbody>
</table>

### Oil Sight Glass

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

**KEY BENEFITS:**
- Easily collect and drain water
- Durable and stain resistant
- Designs available for space limitations

<table>
<thead>
<tr>
<th>OIL SIGHT GLASS SIZE</th>
<th>DC-OSGXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 oz X 1/4” NPT</td>
<td>DC-OSG1X250</td>
</tr>
<tr>
<td>1 oz X 3/8” NPT</td>
<td>DC-OSG1X375</td>
</tr>
<tr>
<td>3 oz X 1/2” NPT</td>
<td>DC-OSG3X500</td>
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<tr>
<td>5 oz X 3/8” NPT</td>
<td>DC-OSG5X375</td>
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<td>8 oz X 3/8” NPT</td>
<td>DC-OSG8X375</td>
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<tr>
<td>11 oz X 1/2” NPT</td>
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<tr>
<td>16 oz X 1/2” NPT</td>
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<tr>
<td>24 oz X 1/2” NPT</td>
<td>DC-OSG24X250</td>
</tr>
<tr>
<td>32 oz X 1/2” NPT</td>
<td>DC-OSG32X250</td>
</tr>
</tbody>
</table>

### Oil Level Indicator

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

**KEY BENEFITS:**
- Closed-loop or filtered installation
- Multiple lengths available

<table>
<thead>
<tr>
<th>OIL LEVEL INDICATORS (OD)</th>
<th>DC-OILXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>3” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL03</td>
</tr>
<tr>
<td>6” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL06</td>
</tr>
<tr>
<td>9” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL09</td>
</tr>
<tr>
<td>12” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL12</td>
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<tr>
<td>15” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL15</td>
</tr>
<tr>
<td>18” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL18</td>
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<tr>
<td>21” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL21</td>
</tr>
<tr>
<td>24” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL24</td>
</tr>
<tr>
<td>27” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL27</td>
</tr>
<tr>
<td>30” OD 7/8” OD, 1/2” Male NPT on each end</td>
<td>DC-OIL30</td>
</tr>
</tbody>
</table>

### 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 contaminates. Available in a range of heights from 3” to 24”.

**KEY BENEFITS:**
- Detects accumulation of water and contaminates
- Easily attaches to drain ports

<table>
<thead>
<tr>
<th>OIL SIGHT GLASS LEVEL MONITORS</th>
<th>DC-OSGLXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Sight Glass &amp; Level Monitor, 3”</td>
<td>DC-OSGL3</td>
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<tr>
<td>Oil Sight Glass &amp; Level Monitor, 6”</td>
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<tr>
<td>Oil Sight Glass &amp; Level Monitor, 9”</td>
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<td>Oil Sight Glass &amp; Level Monitor, 12”</td>
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<td>Oil Sight Glass &amp; Level Monitor, 15”</td>
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<td>Oil Sight Glass &amp; Level Monitor, 18”</td>
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</tr>
<tr>
<td>Oil Sight Glass &amp; Level Monitor, 24”</td>
<td>DC-OSGL24</td>
</tr>
</tbody>
</table>
SERVICES

Lubrication Training and Consulting

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

1 EDUCATE:
- Practical machinery lubrication
- ICML certification
- Variety of on-demand education

2 QUANTIFY:
- Benchmark assessments
- Gap analysis
- Cost-benefit analysis

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

4 MEASURE:
- Routine inspection services
- Troubleshooting
- Evaluation for continuous improvement opportunities

5 EXECUTE:
- Storage and handling setup
- Turn-key filtration installation
- Reclamation and custom filtration

Contact Us: practicaladvice@descase.com

TRANSFORM YOUR LUBRICATION PROGRAM.
Protect your lubricants and equipment with Des-Case specialty filtration products.