Product Information

Xtract® Contamination Removal

Xtract® Oil Sight Glass Level Monitor

Inspect, analyze and remove contaminants as well as manage your oil levels.

Applications

- Pumps
- Gearboxes
- Storage tanks

Overview

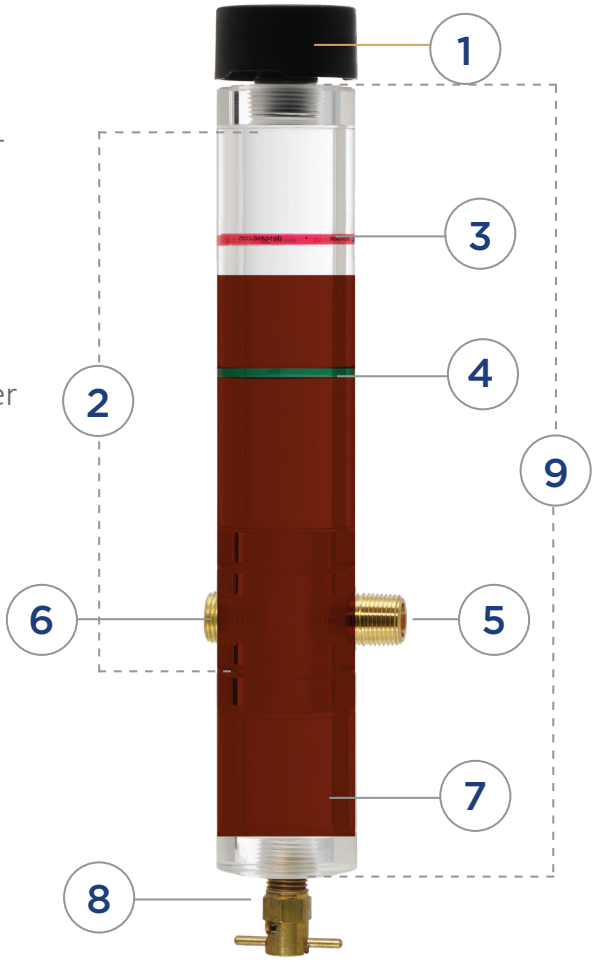
Xtract® Oil Sight Glass Level Monitor

Description

With the Oil Sight Glass Level Monitor (OSGL), users have an immediate visual inspection of the oil and the ability to drain any accumulated water. It is installed directly to a drain port located at the bottom of a reservoir or with an elbow for drain ports located on the side of the equipment. The spring-loaded drain valve is used to purge any accumulated water. Any sediment or particles in the lubricating fluid will migrate to the OSGL where, upon inspection, the user can determine the appropriate action. The OSGL is adaptable for use with dual or single ports.

Key Benefits

- 360 view for oil level measurement and color
- Attaches to machine drain port & detects accumulation of water and contaminants
- Option for magnetic drain valve
- Stainless steel fitting package available
- Ability to create closed loop back to equipment desiccant breather and/or adapter kit with Headspace Vent Kit



By the Numbers

1–Xclude ND-2 Breather

2–Length of Level Monitoring Area

3–Idle/Maximum Oil Level Marker

4–Running/Minimum Oil Level Marker

5–3/8" NPT Port

6–3/8” FNPT with Plug

7–Water Accumulation Area

8–1/4" Brass Drain Valve

9–Overall Length of Acrylic Bottle

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Specs

Material & Components

- **Body:** Acrylic
- **Drain Valve, Close Nipple and Hex Plug:** Brass, Buna-N
- **ND-2 Breather:** Nylon 6/6 30% Glass Filled, ePTFE, Buna-N

Chemical Compatibility

- Compatible with all mineral oils and most synthetic oils (Contact Lubrication Engineers technical support for chemical compatibility inquires.)

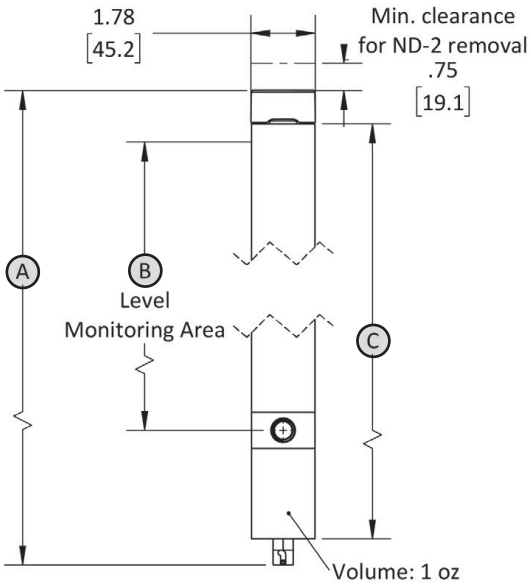
Performance Specifications

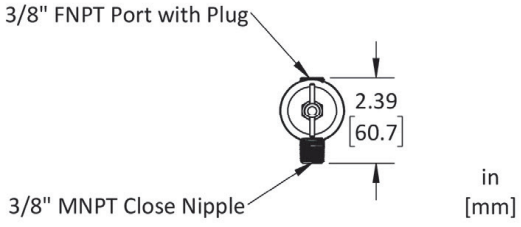
Recommended Temperature Range	-40°F to 200°F (-40°C to 93°C)
ND-2 Filter Efficiency	0.3µ absolute (ß0.3≥1,000)
Maximum Operating Pressure Port	65 psi (4.48 bar)

Note: Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances. Performance specifications shown above are provided for information only and subject to change. All metric conversions are approximate.

Part Numbers & Dimensions

Part #	A	B	C
	inch / mm		
LEXOD375-3	8.2 / 208	3 / 76	6.5 / 165
LEXOD375-6	11.2 / 285	6 / 152	9.5 / 241
LEXOD375-9	14.2 / 361	9 / 229	12.5 / 318
LEXOD375-12	17.2 / 437	12 / 305	15.5 / 394
LEXOD375-15	20.2 / 513	15 / 381	18.5 / 470
LEXOD375-18	23.2 / 589	18 / 457	21.5 / 546
LEXOD375-24	29.2 / 742	24 / 610	27.5 / 699





Q & A

Why would I need to use the Oil Sight Glass Level Monitor?

When seeing and maintaining the level of oil in your reservoir is critical, the OSGL provides all the benefits of the Oil Sight Glass plus the ability to constantly monitor the level of the reservoir oil. This all-in-one product provides continuous monitoring of the clarity, color, sediment, water contamination and level of the oil. The OSGL can be used as a single- or dual-port model. It has a second 3/8" NPT thread at 180° to allow the installation of a drain valve or access to the oil reservoir using a pitot tube and a pitot sample adapter. This second port can be plugged if the OSGL is only needed for a single port.

Does the OSGL work with all oils?

Yes, the OSGL will collect sediment and free-flowing water from any oils. They are best used with high-quality synthetic oils, as synthetics tend to do a more efficient job separating water.

Where is the best place to install the OSGL?

We recommend installing the OSGL at the lowest point of the oil reservoir; typically the drain port. Water contamination will separate from high quality oils and migrate to the OSGL where it can be purged from the system. Unwanted sediment and particles are visible in the OSGL. Upon inspection, the user can determine the appropriate action to initiate.

What materials is the OSGL made from and how resistant is it to corrosion?

The OSGL is manufactured from strong, stain-resistant cast acrylic. The drain valve is made from brass with a vulcanized rubber seal. Both materials have excellent resistance to hydrocarbon and petroleum-based products, hydraulic fluids, most silicone fluids, and fuels. A detailed chemical resistance chart is available upon request.

Are alternate materials available for the hardware?

The brass hardware will provide excellent performance for most applications; however, 304 stainless steel hardware is available for environments that cannot accept brass.

Do I still need a desiccant breather if using the OSGL?

Yes. Desiccant breathers prevent moisture and contaminants from entering the fill port of equipment and pull moisture from the headspace. However, a desiccant breather cannot remove large amounts of water already mixed into the oil. That is why combining the use of desiccant breathers with oil filtration and an OSG to isolate and remove free-flowing water from the oil is best practice. Additionally, the OSGL will act as an early indicator of a contaminants problem. Lastly, venting the OSGL with an Xclude ND-2 breather at the top helps to provide accurate oil level readings.

Can I pull an oil sample from the OSGL?

Water and other contaminants tend to sink to the bottom of a reservoir. Because of this, samples taken from the drain of the OSGL will typically be "dirtier" than the rest of the oil in the reservoir. The OSGL allows users to run a pitot tube into their reservoir to pull a representative oil sample.

Why would we use the magnet drain valve?

The strong pull from this rare earth magnet will attract and hold microscopic ferrous particles. Further analysis of these particles can help determine what component is failing for replacement. The magnet drain valve is easily interchanged with the standard drain valve on any OSG or OSGL product.

When should I replace my OSGL?

The OSGL will last for years, but different applications can shorten the life of the product. Years of exposure to sunlight, extreme weather or caustic chemicals will degrade the acrylic over time. Watch for fogging, crazing (small cracks appearing on the surface of the acrylic) or oil weeping from bonded surfaces. These are signs that the product is in need of replacement. If installed outside and exposed to harsh conditions, the products should be replaced every 2-3 years. Indoor applications typically have a life-span of 3-5 years. It is highly recommended that you never use an OSGL for more than 5 years without replacing it.

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