

HOW TO INSTALL OIL SIGHT GLASSES



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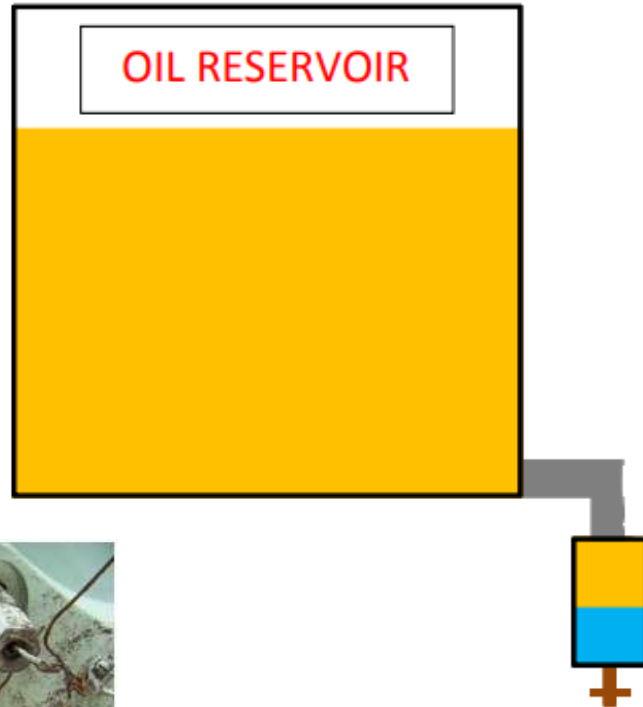
How to install Oil Sight Glasses

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Standard Installation of Oil Sight Glass (Bottom Sediment and Water Bowl)



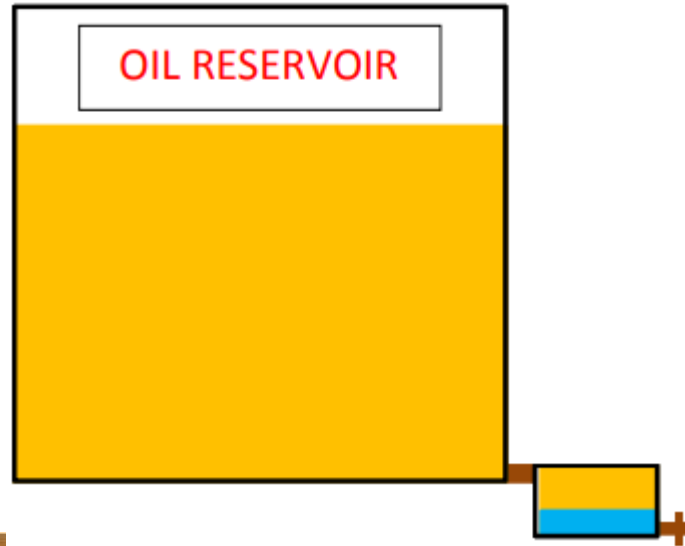
Oil Sight Glasses should be installed at the lowest point possible.

Typically these are installed on a drain port using a 90° piping elbow.

The Oil Sight Glass sits below the oil reservoir, so all water and sediment sinks to the bottom of the reservoir and collects in the Oil Sight Glass.

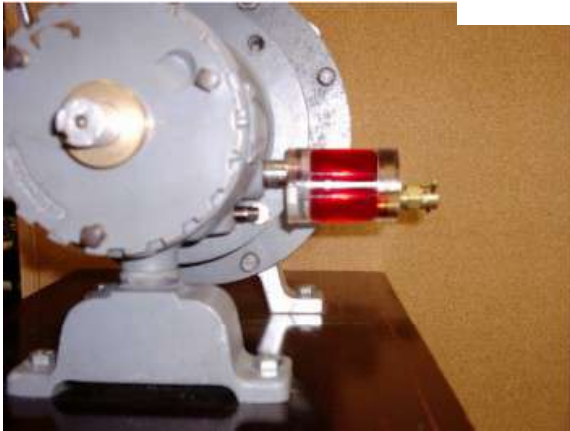
This removes the harmful free flowing water which the user can then drain when necessary. If there is not adequate vertical space for installation then Esco's Horizontal Oil Sight Glass is recommended (See instructions on Horizontal installation).

Standard Installation of Horizontal Oil Sight Glass

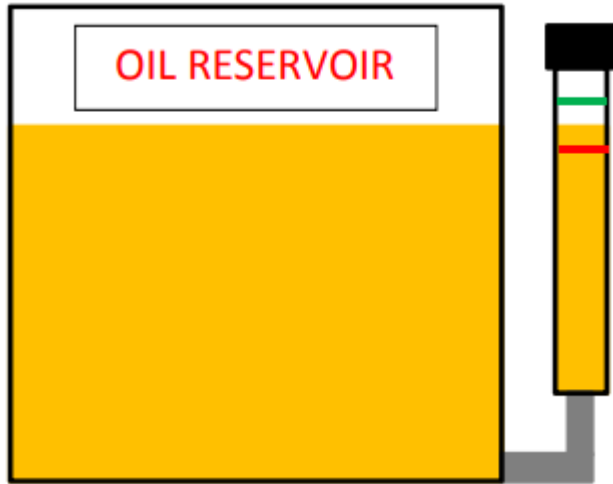


Esco developed the Horizontal Oil Sight Glass for installations that did not have enough vertical space for our standard Oil Sight Glass.

The Horizontal Oil Sight Glass installs directly into the drain port and still allows for the collecting and draining of water and sediment.



Standard Installation of Oil Level Indicator (Vented)



Pipe out of the drain port and install a 90 Degree Elbow to achieve proper vertical installation.

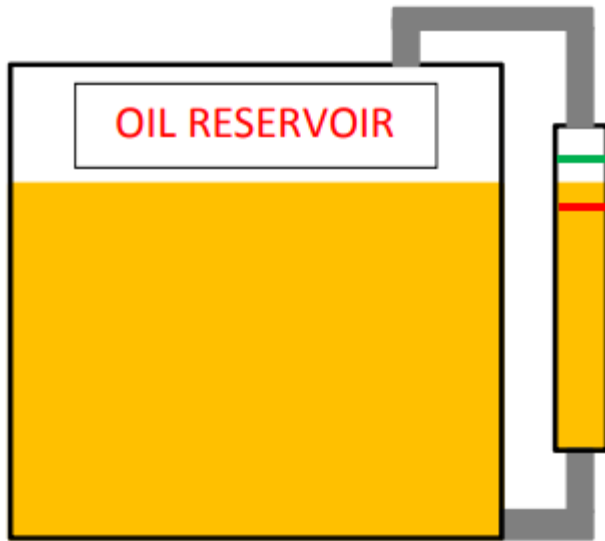


Oil Level Indicator shows an accurate level of oil inside the reservoir.

Breather cap on top allows for equalization of pressure without pulling in contaminants.

Red and Green O-rings or stickers mark the upper and lower limit of the oil level (as determined by user).

Standard Installation of Oil Level Indicator (Closed Loop)



Pipe out of the drain port and install a 90 Degree Elbow to achieve proper vertical installation.

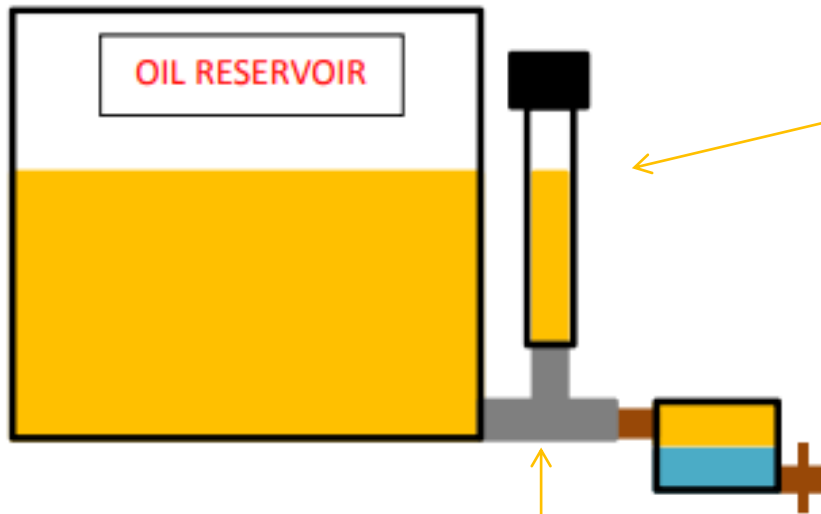


Oil Level Indicator shows an accurate level of oil inside the reservoir.

Pipe out of the top and then back into your oil reservoir to make a closed loop system.

Red and Green O-Rings or stickers show the upper and lower level limits (as determined by the user).

Oil Level Indicator in use with Horizontal Oil Sight Glass (when vertical space is limited)



Installing a piping “tee” on the drain valve allows the user to then install an Oil Level Indicator along with an Oil Sight Glass.

This allows the user to visually monitor the oil level while also collecting & draining any water or sediment.

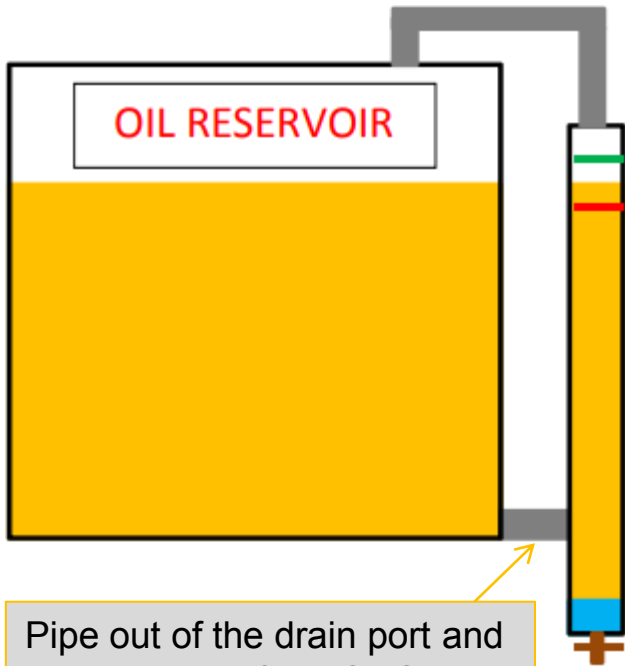
The Oil Level Indicator shows the level of oil inside of the reservoir. A breather is installed on top allows the device to vent without pulling in outside contaminants.

Horizontal Oil Sight Glass is installed at the lowest point.

This way any water or sediment will be collected and drained as needed. Horizontal style Oil Sight Glass requires less vertical space for installation.



Standard Installation of Oil Sight Glass & Level Monitor (Closed Loop)



Pipe out of the drain port and into the side of the Oil Sight Glass & Level Monitor. Lower chamber collects water and sediment (which can be drained as desired).

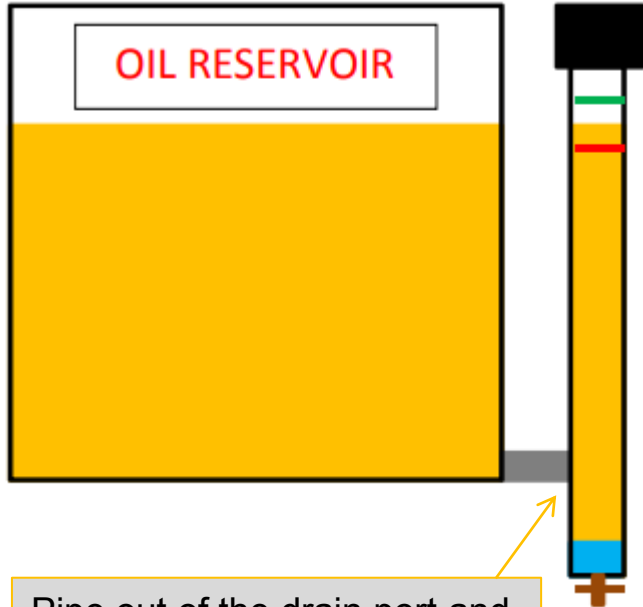


Oil Sight Glass & Level Monitor shows an accurate level of oil inside the reservoir.

Pipe out of the top and then back into your oil reservoir to make a closed loop system.

Red and Green O-Rings or stickers show the upper and lower level limits (as determined by the user).

Standard Installation of Oil Sight Glass & Level Monitor (Vented)



Pipe out of the drain port and into the side of the Oil Sight Glass & Level Monitor. Lower chamber collects water and sediment (which can be drained as desired).

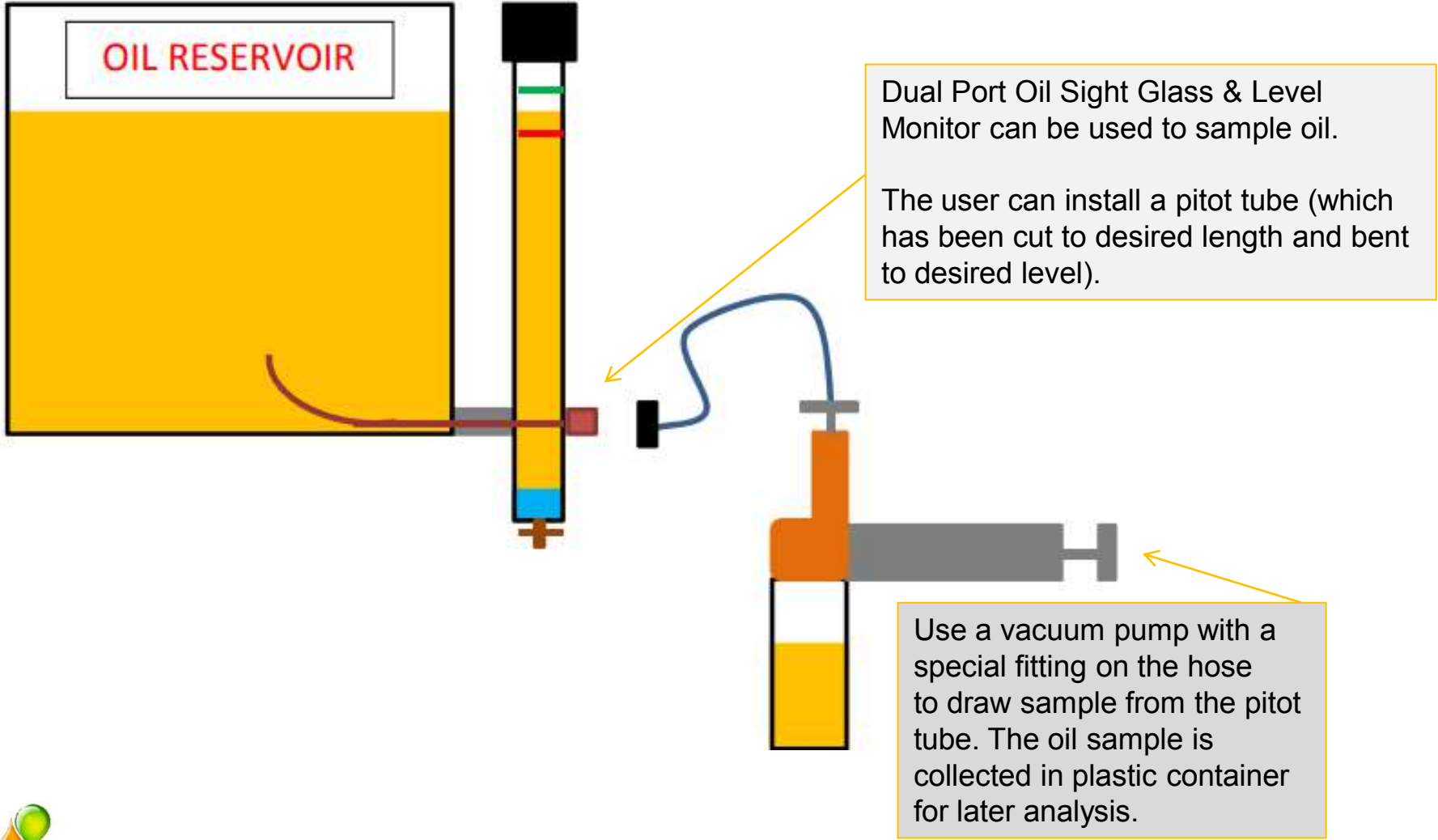


Oil Sight Glass & Level Monitor shows an accurate level of oil inside the reservoir.

Breather on top allows for pressure to equalize without pulling in contaminants.

Red and Green O-Rings or stickers show the upper and lower level limits (as determined by the user).

Sampling Through Dual Port Oil Sight Glass & Level Monitor



Proper Level Monitor Installation

When installing the Esco Oil Sight Glass and Level Monitor, proper vertical alignment cannot be attained by threading the nipple directly into the drain valve. Installers compensate by over-tightening the connection to move the OSGL into the correct upright position.



This over-tightening can lead to cracks in the acrylic and compromise the effectiveness of the OSGL. Esco suggests using a Union when installing the OSGL.



Problem solved! Proper vertical alignment is easily attained with the use of a union and there is no longer a threat of over-tightening the Connection and cracking the Level Monitor.



To help Esco's customers to mount their levelers correctly, the installation guidelines on the label of every OSGL has been updated to include the use of a union.

Responding to customer needs to view the levels in larger oil reservoirs Esco began to manufacture 15", 18" and 24" Oil Sight Glass Level Monitors. Esco recommends that on Level Monitors longer than 12" a support bracket should be utilized for stability.



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