Oil Sight Glass

Schroeder Oil Sight Glasses provide maintenance and lubrication management professionals a complete and immediate visual oil analysis. Constructed of durable cast acrylic, they withstand most petroleum products to remain crystal clear. Although easy detection and discharge of water contamination are leading benefits, operators can also visually monitor the oil for discoloration or debris. 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.

Schroeder Oil Sight Glasses are designed for simple installation on most equipment.

Our Oil Sight Glass product line includes models for vertical and horizontal mounting, high temperature applications, large volume bowls, level indication and the all-encompassing Oil Sight Glass and Level Monitor. The revolutionary 3-D Oil Sight Glass can replace the problematic, old-fashioned sight plug on your oil reservoir to provide greater visibility.

BENEFITS

- Withstand most petroleum products to remain crystal clear
- Continuously monitor oil level and condition
- Extremely low maintenance
- Low purchase and installation costs
- Save expensive equipment through early detection & action

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Oil Sight Glass

For many systems the 1 oz. Oil Sight Glass is adequate. The 3 oz. Oil Sight Glass provides additional volume and should be used when the condensation or water spillover is excessive. Schroeder also offers 16 oz. and 32 oz. Oil Sight Glasses for special applications that require the ability to accumulate substantial volumes of water due to large oil reservoirs, high condensation problems or excessive water spillover. Even larger sizes and unique configurations are available for special applications.

	1 oz. Oil Sight Glass	3 oz. Oil Sight Glass
Outside Diameter:	1.75”	2.5”
Length:	2.38”	2.38”
Maximum psi:	225	200
Operating Temperature:	-40°F to 165°F -40°C to 74°C	-40°F to 165°F -40°C to 74°C
Specifications:	•Commercial grade acrylic •Brass drain valve •¼”, ⅜” or ½” NPT brass nipples •Vertical & horizontal styles •Available in 16 oz. & 32 oz. sizes •Stainless steel hardware available	

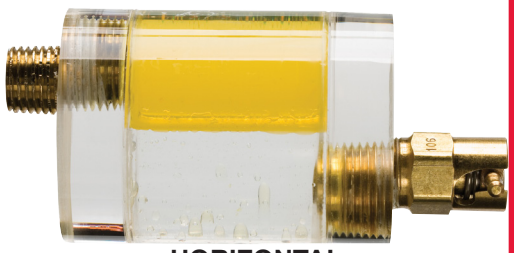
VERTICAL

Horizontal Oil Sight Glass

The *Horizontal* Oil Sight Glass is designed to be installed on equipment that has restricted vertical clearance. The design has the mounting nipple and drain valve eccentrically machined and oriented 180° apart. This provides the same ability to discharge any accumulated water.

How to order:

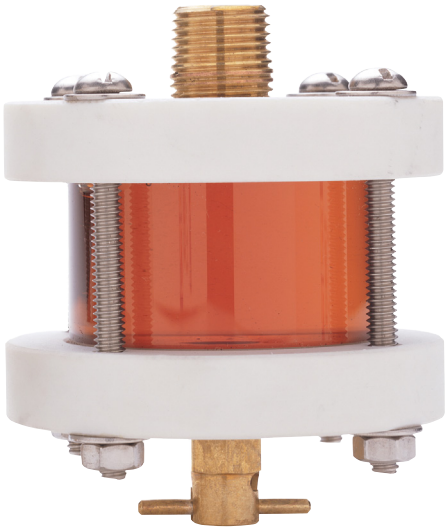
Part #	Description
OSG1X250	Vertical 1 oz 1/4” NPT
OSG1X375	Vertical 1 oz 3/8” NPT
OSG1X500	Vertical 1 oz 1/2” NPT
OSG3X250	Vertical 3 oz 1/4” NPT
OSG3X375	Vertical 3 oz 3/8” NPT
OSG3X500	Vertical 3 oz 1/2” NPT
OSG16X500	Vertical 16 oz 1/2” NPT
OSG32X500	Vertical 32 oz 1/2” NPT
OSG1X250HZ	Horizontal 1 oz 1/4” NPT
OSG1X375HZ	Horizontal 1 oz 3/8” NPT
OSG1X500HZ	Horizontal 1 oz 1/2” NPT
OSG3X250HZ	Horizontal 3 oz 1/4” NPT
OSG3X375HZ	Horizontal 3 oz 3/8” NPT
OSG3X500HZ	Horizontal 3 oz 1/2” NPT



HORIZONTAL

High Temperature Oil Sight Glass

When oil operating temperatures or radiant heat from adjacent equipment are continually in excess of 165°F, you should consider utilizing the Schroeder High Temperature Oil Sight Glass.



HIGH TEMPERATURE

	1 oz. Oil Sight Glass	3 oz. Oil Sight Glass
Outside Diameter:	2.75”	3.50”
Length:	2.50”	2.50”
Maximum psi:	225	225
Operating Temperature:	450°F 232°C	450°F 232°C
Specifications:	•Heavy-walled Pyrex glass •Teflon™ end plates •Stainless steel nuts & bolts •Viton O-rings •Brass drain valve •¼”, ⅜” or ½” NPT brass nipples •Vertical stlye only •Stainless steel hardware available	

How to order:

Part #	Description
OSG1X250HT	High Temp 1 oz 1/4” NPT
OSG1X375HT	High Temp 1 oz 3/8” NPT
OSG1X500HT	High Temp 1 oz 1/2” NPT
OSG3X250HT	High Temp 3 oz 1/4” NPT
OSG3X375HT	High Temp 3 oz 3/8” NPT
OSG3X500HT	High Temp 3 oz 1/2” NPT

Magnet Option

Any Oil Sight Glass can be equipped with a rare earth magnet that attracts and holds microscopic ferrous particles in your oil. 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 product.

MAGNET OPTION

Oil Sight Glass & Level Monitor

When seeing and maintaining the level of oil in your reservoir is critical, the Oil Sight Glass and Level Monitor (OSGL) provides all the benefits of the OSG plus the ability to constantly monitor the level of the reservoir oil. The dual port model has a second 3/8" NPT thread at 180° to allow the installation of a drain valve or access to the oil reservoir utilizing a pilot tube and a pitot sample adapter. This all-in-one product provides continuous monitoring of the clarity, color, sediment, water contamination and level of the oil.

Outside Diameter:	1.75"
Length:	3", 6", 9", 12", 15", 18", 24", or custom available
Maximum psi:	225
Operating Temperature:	-40°F to 165°F -40°C to 74°C
Specifications:	•Commercial grade acrylic •Brass drain valve •⅜" NPT brass nipples •Available in dual port version with a second ⅜" NPT port •Stainless steel hardware available

How to order:

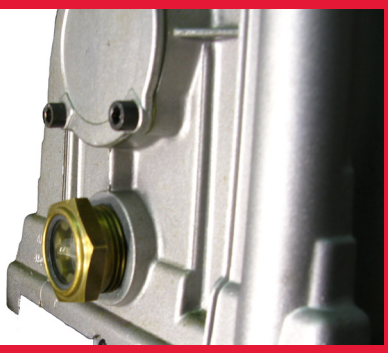
Part #	Description
OSGL3	OSG and Level Monitor 3"
OSGL6	OSG and Level Monitor 6"
OSGL9	OSG and Level Monitor 9"
OSGL12	OSG and Level Monitor 12"
OSGL3DP	OSG and Dual Port Level Monitor 3"
OSGL6DP	OSG and Dual Port Level Monitor 6"
OSGL9DP	OSG and Dual Port Level Monitor 9"
OSGL12DP	OSG and Dual Port Level Monitor 12"
OSGL15	OSG and Level Monitor 15"
OSGL18	OSG and Level Monitor 18"
OSGL24	OSG and Level Monitor 24"
OSGL15DP	OSG and Dual Port Level Monitor 15"
OSGL18DP	OSG and Dual Port Level Monitor 18"
OSGL24DP	OSG and Dual Port Level Monitor 24"

3-D Oil Sight Glass

The 3-D OIl Sight Glass is machined from one solid piece of impact resistant, high strength, stain-resistant cast acrylic. It has excellent resistance to hydrocarbon and petroleum-based products, hydraulic fluids, most silicone fluids, and fuels. Replaces problematic, old-fashio oil level sight plugs. Fits virtually every oil reservoir. Revolutionary easy view design is visible from virtually any angle, minimizing false positives.

NPT:	½", ¾", 1", 1¼", 1½", 2"	
Outside Diameter:	7/8", 11/8", 1⅜", 1¾", 2" 2½"	
Length:	1", 1⅜", 1⅜", 1⅜", 1⅜", 1½" From last thread. Metric and custom sizes available.	
Maximum psi:	300	
Operating Temperature:	200°F; 93°C 230°F; 110°C	At 66 psi. At atmospheric pressure.

BEFORE



AFTER

How to order:

Part #	Description		
3DBM10X1.0	Metric 10X1.0	3DB0250	1/4" NPT
3DBM10X1.5	Metric 10X1.5	3DB0375	3/8" NPT
3DBM12X1.5	Metric 12X1.5	3DB0500	1/2" NPT
3DBM16X1.5	Metric 16X1.5	3DB0750	3/4" NPT
3DBM20X1.5	Metric 20X1.5	3DB1000	1" NPT
3DBM22X1.5	Metric 22X1.5	3DB1250	1 1/4" NPT
3DBM24X1.5	Metric 24X1.5	3DB1500	1 1/2" NPT
3DBM26X1.5	Metric 26X1.5	3DB2000	2" NPT
3DBM27X1.5	Metric 27X1.5		
3DBM30X2.0	Metric 30X2.0		
3DBM33X1.5	Metric 33X1.5		

FAQs

Where is the best place to install the Oil Sight Glass?

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

How often should the Oil Sight Glass be replaced?

Under normal operating conditions, the life span of the Oil Sight Glass is not limited. Repeated exposure to caustic chemicals can cause staining and small surface cracks called crazes, which can lead to larger cracks and bonding failure. Environmental factors such as long periods of direct sunlight and radical swings in temperature can expedite staining or crazing. Designed to withstand normal industrial lubrication applications, the Schroeder Oil Sight Glass can work for years without failure or degradation, but operators should watch for staining, crazing or microscopic oil seepage that may arise and replace the OSG immediately to insure safe and effective oil management.

How do I clean the Oil Sight Glass?

Soap and warm water is the best way to clean the Oil Sight Glass. Commercial cleaning products containing alcohol or ammonia (including Windex) should be avoided, as they may cause crazing that can expedite staining and/or compromise the bond strength.

Are there any special precautions for extremely cold applications?

The materials used can withstand temperatures as low as -40°F or -40°C. It is important that the water accumulation in the Oil Sight Glass is managed to prohibit it from completely displacing all of the oil. As little as a tablespoon (1/4” linear volume) of oil in the chamber will provide for the volumetric expansion required when the water freezes. If enough water accumulates to displace all of the oil from the chamber, the expansion that occurs when it freezes can fracture the OSG. Although Oil Sight Glasses are a valuable, dependable and safe tool to use in extremely cold environments, it is important that they are regularly monitored to avoid excess water accumulation. We do not recommend the installation of OSGs in hard to see places on equipment in freezing environments.

I just received my new 3-D Oil Sight Glass. Why does the inside surface look cloudy?

Polishing is not necessary for the interior walls of the 3-D BullsEye. Once installed and lubricating fluid is introduced, the view will become crystal clear and the cloudiness will disappear.