

23rd September 2019

Sightglasses and critical tanker components

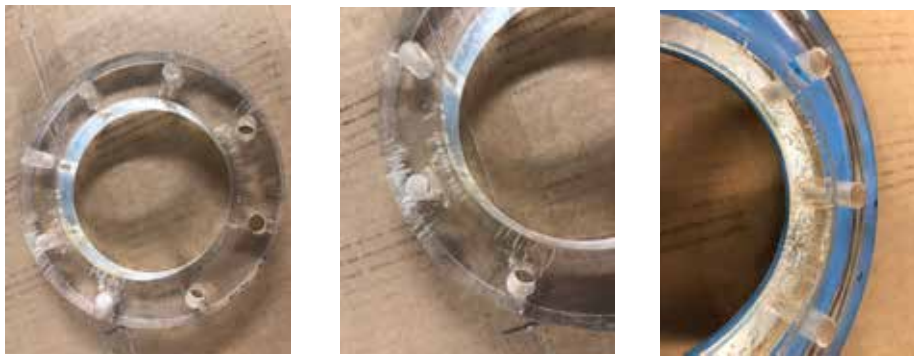
Sight glasses are an essential part on fuel tankers for visual inspection of product in the pipeline. They are also one of the most vulnerable pieces of equipment due to their installed location and the limited availability of materials for manufacturing a quality product.

Pipelines that sightglasses are positioned in, along with other critical components on the lower half of a road tanker are often flooded. All of these components are relentlessly subjected to dynamic stresses from road conditions and material compatibility with different products carted.

Material compatibility is constantly evolving due to the introduction of new fuels, chemicals, different blends and additives, and harsh chemicals used for washouts.

Liquip highly recommend that regular inspections of the sightglasses be undertaken and replaced (if necessary) on all tankers to ensure they are in a satisfactory condition.

Liquip's distributor and service network are constantly witnessing and replacing poor quality and damaged sightglasses. Below are some photos of non-Liquip sightglasses showing cracking and crazing, which have been recently removed from a road tanker by our local Sydney distributor and service centre [Liquip NSW].



Non-genuine Liquip sight glasses showing cracking and crazing

Over the years, Liquip has completed, and continues to conduct, engineered tests to stay ahead of the curve with the petrochemical compatibility. Rather than use standard off the shelf materials, Liquip implements rigorous processes so our sightglasses can handle the stresses and constantly changing chemical compatibility issues that are presented.

Liquip recommend that only genuine Liquip sightglasses and gaskets are used on road tankers as per product data sheets (sightglass overleaf) and that these product learnings are communicated to end users.

If you come across sightglasses that you suspect to be affected, please document which products/chemicals the tanker has carried and contact Liquip for further advice.

Sincerely,
Liquip

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Sightglass for Flanges

Liquip's acrylic sightglass are for mounting between two flanges and allow visual indication of contents in pipework.

Key Features

- Cast Acrylic, tempered. Flame polish not allowed
- Sightglass fits between two flanges of the same specification.
- Viton gaskets on both sides of sightglass – to be full face style.
- Mounting bolts of adequate length tightened to a torque of 20Nm. Tighten up evenly in a criss-cross manner.
- ANSI 125 flange (must have flat face).



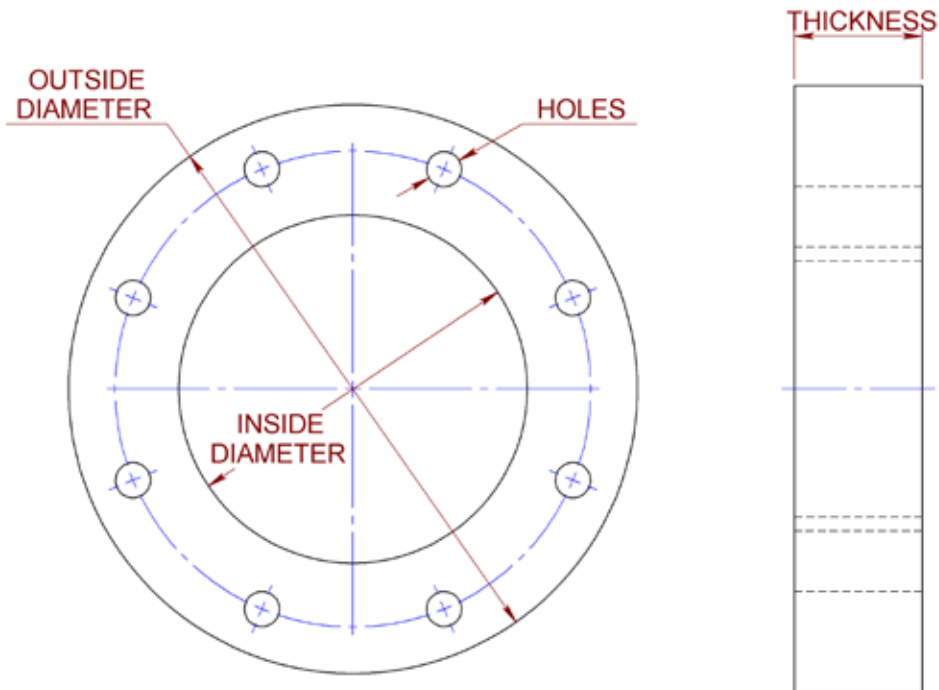
Ordering Information

API-SG-150	Sightglass ASA150 40mm 125ID
BF4-SG-40	Sightglass 100MM TTMA 40mm thick Acrylic Flange
BF4-SG-25	Sightglass 100MM TTMA 25mm thick Acrylic Flange comes with 8 x Holes
BF3-SG	Sightglass Flange 3" TTMA to suit LBV3-V Butterfly Valve

Specifications

Weight	1.2kg – API-SG-150 0.69kg – BF4-SG-40 0.44kg – BF4-SG-25 0.3kg – BF3-SG
Technical Data	Do not use with solvents – see compatibility list following Maximum working pressure – 1,000kPa Working temperature -50°C to +80°C
Associated Equipment	4" ANSI 125 flanges (must have flat face) 4" TTMA flanges BF4 and BF4-1 3" TTMA flanges BF3 and BF3-1 0657V Viton A gasket for 4" TTMA 0656V Viton A gasket for 3" TTMA 0657 Cork Gasket for 4" TTMA 0656 Cork Gasket for 3" TTMA

SIGHTGLASS FOR FLANGES



Size	Part No	Outside Diameter	Inside Diameter	Thickness	Holes
4" ANSI125	API-SG-150	228	130	40	8 x Ø19 on 190 PCD
4" TTMA	BF4-SG-25	178	109	25	8 x Ø11 on 149.2 PCD
4" TTMA	BF4-SG-40	178	109	40	8 x Ø11 on 149.2 PCD
3" TTMA	BF3-SG	146	86	25	8 x Ø11 on 124 PCD

NOTES:

1. MATERIAL IS CAST ACRYLIC.
2. MOUNTING FLANGES TO BE FLAT TO WITHIN 1mm.
3. VITON (OR SIMILAR HARDNESS) GASKETS TO BE USED.
4. TIGHTEN MOUNTING BOLTS TO A TORQUE OF 20Nm.

METERS - VALVES - VENTS - MANHOLES - HOSEREELS - OVERFILL PROTECTION - LOADING ARMS - ELECTRONIC DIPSTICKS



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 Issue: E

Non Compatible – Not Recommended

Acetic Acid 50%
Acetic Acid, Glacial
Acetic Anhydride
Acetone
Acetonitrile
Acrylonitrile
Allyl Alcohol
n-Amyl Acetate
Aniline
Aqua regia
Benzaldehyde
Benzene
Benzyl Acetate
Benzyl Alcohol
Bromine
Bromobenzene
Bromoform
n-Butyl Acetate
n-Butyl Alcohol
i-Butyl Alcohol
t-Butyl Alcohol
Calcium Hypochlorite, saturated
Cellosolve Acetate
Carbazole
Carbon Disulfide
Carbon Tetrachloride
Cedarwood Oil
Chloroacetic Acid
p-Chloracetophenone
Chlorobenzene
Chloroform
Chromic Acid 50%
Cinnamon Oil
Cresol
Cyclohexane
Cyclohexanone
Decalin
n-decane
o-Dichlorobenzene
p-Dichlorobenzene
Diethyl Ether
Diethyl Ketone
Malonate
Dimethyl Formamide
Sulfoxide
1, 4-dioxane
Diacetone alcohol
1, 2-dichloroethane
2, 4-dichlorophenol
Dioxane
Dibutyl phthalate
Dioctyl phthalate
Ethanol
Ether
Ethyl Acetate
Ethyl Benzene
Ethyl Benzoate
Ethyl Butyrate
Ethyl Chloride liquid
Ethyl Cyanoacetate
Ethyl Lactate
Ethylene Chloride
Fluorides
Fluorine
Formic Acid, 98%-100%
Acetic Acid, Glacial
Hydrochloric Acid, 48%
Hydrogen Peroxide, 90%
Hydrazine
Iodine Crystals
Isobutyl Alcohol
Isopropyl Benzene
Isopropyl Ether
Lacquer Thinner
Methyl Alcohol
Methyl Ethyl Ketone
Methyl Isobutyl Ketone
Methyl Propyl Ketone
Methylene Chloride
2-Methoxyethanol
Methyl Acetate
Mineral Spirits
Nitric Acid 70%
Nitrobenzene
Nitromethane
Perchloric Acid
Perchloroethylene
Phenol, Crystals
Phenol, Liquid
Phosphoric Acid, 85%
Picric Acid
Propionic Acid
Propylene Oxide
Resorcinol, saturated
Salicylic Acid, Powder
Salicylic Acid, saturated
Sulfur Dioxide, Wet or Dry
Sulfuric Acid, 98%
Tetrahydrofuran
Thionyl Chloride
Toluene
Tributyl Citrate
Trichloroethane
Trichloroethylene
Trichloroacetic Acid
1,2,4 Trichlorobenzene
Turpentine
Undecyl Alcohol
Vinylidene Chloride
Xylene

