



Sight Glass Port View

SG-DIN, Sight Glass Port View or Process View (SGPV), and round glass; port hole sight glasses.

Our **DIN and Sight Glass Port View (SGPV)** are designed to be used at the ends of tubes or to view into the sides and tops of vessels. They are constructed using a disc of glass sandwiched within a DIN 11851 sanitary union using an FKM fluid seal, and a PTFE outer glass seat.

We offer two grades of sight glass for our port sight glasses. The **standard pressure** is rated to our standard 1 bar, ~14.7psi rating. To provide for **high pressure** needs, a specially designed high pressure DIN nut and German made **Maxos® safety glass** has you covered.

Since all of our port sight glasses are mostly made from DIN parts, the FKM seal can be swapped out with any of our DIN gaskets if you have specific requirements for the seal material.



Standard Pressure Designs

The standard pressure version of our port sight glasses are designed to allow maximum view of the port as well as protect the area near the glass from impact with a large exposed PTFE ring. They use all standard DIN fittings, so if your DIN nut gets scratched or damaged it can be replaced with a standard DIN nut. Our standard pressure port sight glasses come in two varieties; weld neck and tri-clamp.

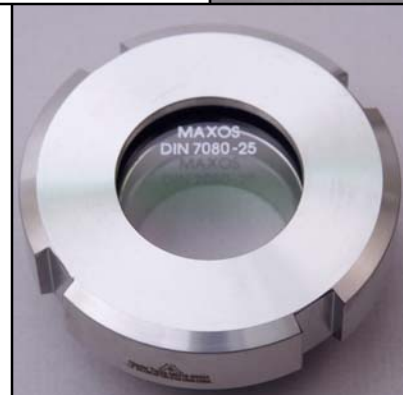
The glass in this design is thick with ground edges, and is designed to withstand considerable pressure. If a pressure rating higher than the standard 1 bar is needed, information can be provided to your 3rd party engineering reviewer for equipment certification.



High Pressure Designs

For high pressure applications we designed a custom DIN nut to give better support to the glass. The opening in the DIN nut is the same diameter as the tubing, and does reduce the view into the port. But the trade off is this design can handle much higher sustained pressures. When this design is paired with our rated Maxos® safety sight glass, engineering review can rely on Maxos® glass material certificates and the DIN 11851 union specifications for compliance.

Maxos® glass is governed by the DIN 7080 specification for borosilicate round glass. It is hardened and tempered for safe use in high pressures and extreme conditions. With high dimensional tolerance and low thermal expansion, the fit and longevity of the part is assured. Additionally, the high thermal shock resistance can reduce unforeseen failure.



HP Maxos Glass Rating

This chart provides the SV 5 pressure rating of Maxos® glass installed in our HP models.

SIZE	HP-DIN SKU	GLASS SKU	GLASS SIZE	SV 5
1"	SG-DIN-HP-G100-FKM	SG-DIN-HW-MAXOS-100	40x10	580 psi
1.5"	SG-DIN-HP-G150-FKM	SG-DIN-HW-MAXOS-150	50x10	363 psi
2"	SG-DIN-HP-G200-FKM	SG-DIN-HW-MAXOS-200	63x12	362 psi
2.5"	SG-DIN-HP-G250-FKM	SG-DIN-HW-MAXOS-250	80x12	232 psi
3"	SG-DIN-HP-G300-FKM	SG-DIN-HW-MAXOS-300	95x15	232 psi
4"	SG-DIN-HP-G400-FKM	SG-DIN-HW-MAXOS-400	113x15	145 psi



Glacier Tanks, LLC
1301 NE 144th St. Ste 125
Vancouver, WA 98685

For additional products and information please visit our website at www.glaciertanks.com or visit us in our store Mon—Fri 8:30am—5:00pm and Saturday 10:00am—2:00pm. If you have any questions please feel free to call us at (360) 953-8453 or email us at info@glaciertanks.com our office hours are Mon—Fri 8:30am—5:00pm

