

Lumiglas round sight glass fitting for unpressurized tanks

3755.147 f

According to DIN 28120

Sight glass fittings are round flange mountings for welding or bolting on. The block and counterflange are firmly screwed together, with the sight glass plate between them, each with a gasket for the upper and lower flange. .

The advantages of this lightweight flange for unpressurized containers (outside the standard DIN 28120 form) are:

- smaller outer diameter and therefore smaller container cutout
- flatter height above the weld seam
- lower weight
- easier to clean
- lower costs

• **Visibility:** 80 bis 225 mm

• Application:

For observing the interior of boilers, silos, agitators, separators, pipelines, etc.

• operating conditions:

operating pressure: unpressurized

Operating temperature: max. 150°C for soda lime glass DIN 8902

max. 280°C for borosilicate glass DIN 7080

higher temperatures on request

• Combination options:

Can be combined with Lumistar luminaires for use in explosive and non-explosive areas.

The counterflanges can be fitted with the appropriate additional threaded holes for mounting such luminaires.

The installation of a Lumiglas SW I windshield wiper and a Lumiglas spray device is also possible.

• Certificates:

According to customer requirements against reimbursement of additional costs, alternatively according to DIN EN 10204 3.1/3.2.

• Parts and alternative materials :

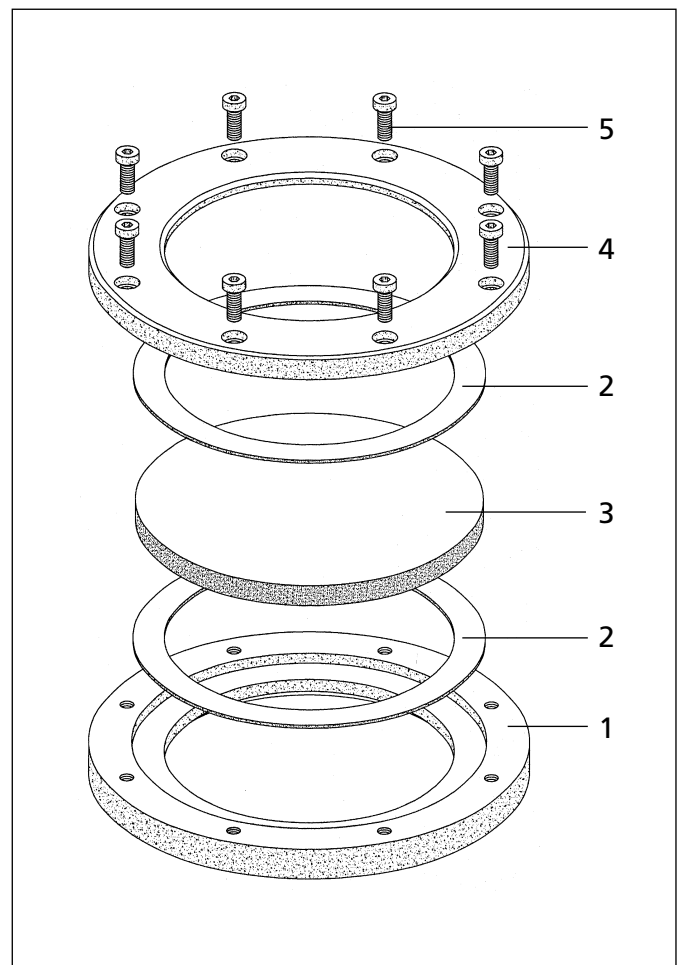
No.	Part	Materials
1	Base flange (weld-on flange)	Stainless steel 1.4571 (316 Ti) or other
2	Gaskets	KLINGERSil C-4400, Silikon, PTFE oder andere
3	Sight glass plate	- Soda-lime glass: thermally tempered DIN 8902 - Borosilicate glass: thermally tempered DIN 7080
4	Counterflange	Stainless steel 1.4571 (316 Ti) or other
5	Fastening screws	Stainless steel A 2 or other

• Assembly:

After welding the base flange (1) to or in the container wall, the seals (2), the sight glass plate (3), and the counterflange (4) are placed on top and fastened to the base flange with the screws (5). The screws must be tightened evenly in a crosswise pattern.

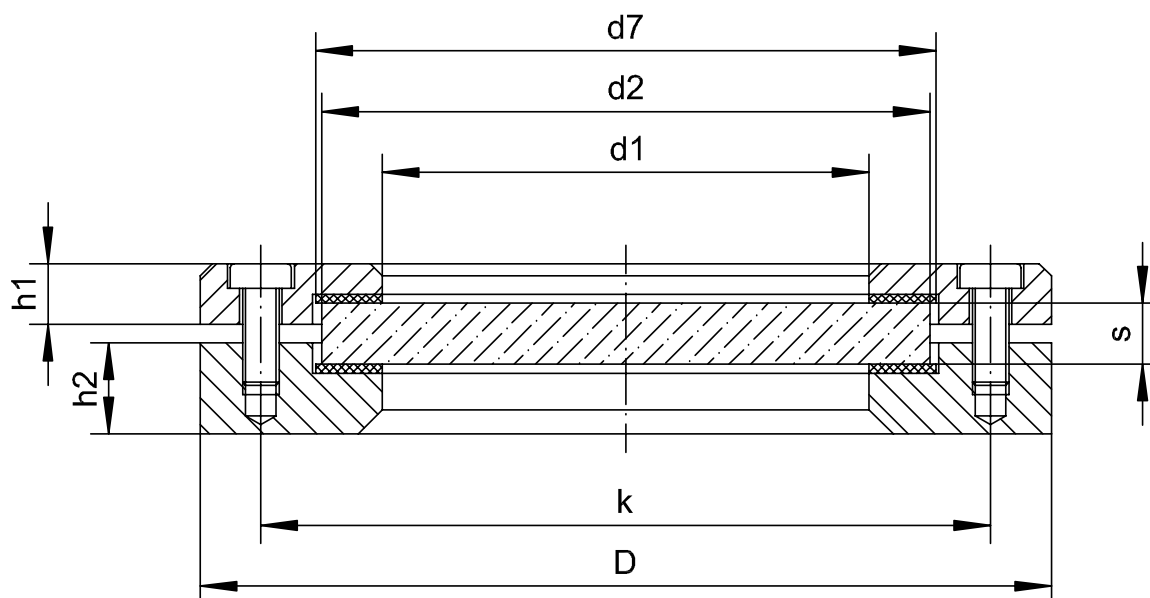


Lumiglas sight glass fitting made of stainless steel



Structure of a Lumiglas sight glass fitting made of stainless steel

- Dimensions for Lumiglas sight glass fitting made of stainless steel, viewing window in accordance with DIN 28120



Size		1	2	3	4	5	6	7
Nominal diameter	DN	50	80	100	125	150	200	300
Visible diameter	d_1	80	100	125	150	175	225	300
Sight glass plate	d_2	100	125	150	175	200	250	325
	s	10	10	10	10	10	10	15
Flange	D	140	165	190	215	240	290	370
	k	120	145	170	195	220	270	345
	h_1	10	10	10	10	10	10	15
	h_2	15	15	15	15	15	15	20
Fastening screws	Anz.	4	8	8	8	8	8	12
	Größe	M 6	M 6	M 6	M 6	M 6	M 6	M 8
Seals (product contact and atmospheric side)	d_1	80	100	125	150	175	225	300
	d_7	102	127	152	177	202	252	327

- **Order specifications:**

- Lumiglas sight glass fitting
- Nominal diameter (DN) / Nominal pressure (PN)
- Material: Base flange, acceptance test certificate 3.1 available on request
Counterflange, acceptance test certificate 3.1/3.2 available on request
Screws
Glass plate
Seals