

Pressure vessel sight glass DIN 28121

Pressure vessel sight glass compliant with DIN 28121 are round flange fitting designed for screwing onto pre-welded flanges, base flanges, or similar components. The base and counter flanges are securely fastened together, with the Schauglas plate positioned between them, each flange equipped with a sealing ring. The sight glass assembly is mechanically pre-tensioned as a complete unit. Its construction and dimensions strictly adhere to the design specifications outlined in DIN 28121.

• **Connection size:** PN10 DN 40 to DN 200

• **Deployment:**

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

• **Operating conditions:**

Overpressure: 10 bar or 25 bar; Vacuum

Operating temperature: up to 200°C for borosilicate glass DIN 7080; higher temperatures available upon request

• **Combination options:**

The combination of Lumiglas sight glass lights for use in **explosion-hazardous and non-explosion-hazardous areas** is possible. The opposite flanges can be equipped with matching additional threaded holes for securing such fixtures.

• **Testimonials/Acceptance:**

In accordance with the customer's request for reimbursement of the extra costs, or alternatively under DIN EN 10204 3.1/3.2

• **Parts and alternative materials** in the adjacent view are:

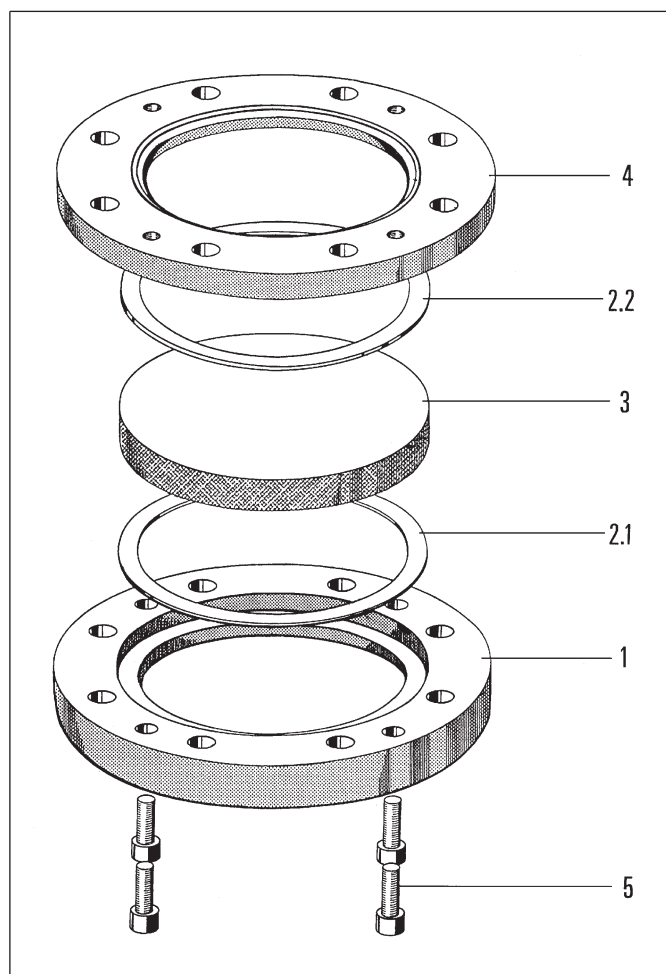
Pos	Part	Material
1	Base flange (Ve-rsion A)	Boiler plate H II according to DIN 17155; stainless steel 1.4571 according to DIN 17440 or other
	AB1	Sealing strip according to DIN EN 1092
	AC	-1, spring according to DIN EN 1092-1,
	AE2	projection according to DIN EN 1092-1
2.1	Seal (product side)	PTFE-encased corrugated ring seal
2.2	Sealing (atmospheric side)	KLINGERSil C-4400
3	Sight glass panel	Borosilicate glass: thermally prestressed DIN 7080
4	Counter flange	Boiler plate H II, stainless steel 1.4571 or other
5	Preload screws	Steel 5.6

• **Assembly**

The pre-tensioned fitting is mounted at the installation site onto a weld-on flange, base flange or the like using fastening screws, the number and size of which can be seen in the table on the reverse.

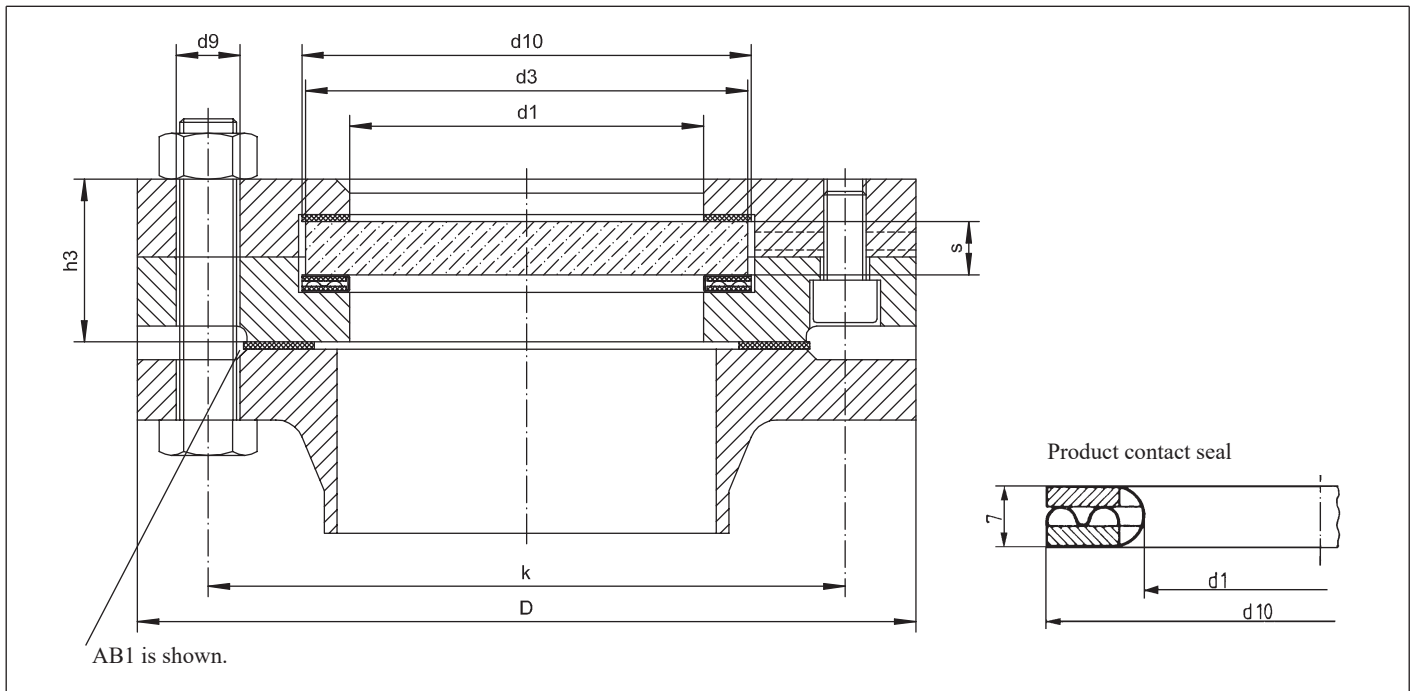


Lumiglas pressure vessel sight glass DIN 28121



Construction of a Lumiglas sight glass fitting according to DIN 28121

• Dimensions for Lumiglas display glass fittings, round, according to DIN 28121(Type A)



Size		1	2	3	4	5	6	7
Nominal width	DN	40	50	80	100	125	150	200
Overpressure (bar)	PN	10/25	10/25	10/25	10/25	10/25	10/25	10/25
Clarity	d1	48	65	80	100	125	125	150
Schauglas plate	d3	63	80	100	125	150	150	175
	s	10/12	12/15	15/20	15/25	20/30	20/30	20/30
Flanges	D	150	165	200	220/235	250/270	285/300	340/360
	k	110	125	160	180/190	210/220	240/250	295/310
	h3	36/38	38/41	46/50	46/59	54/66	54/66	54/66
Fastening screw (Do not include in the delivery)	Number	4	4	8	8	8	8	8/12
	Size	M 16	M 16	M 16	M 16/M 20	M 16/M 24	M 20/M 24	M 20/M 24
	d9	18	18	18	18/22	18/26	22/26	22/26
Seals	d1	48	65	80	100	125	125	150
	d10	65	82	102	127	152	152	177

• Order specifications:

- Fitting (DIN) and design
- Nominal diameter (DN) / Nominal pressure (PN)
- Material: Base flange (with seal surface configuration), acceptance certificate 3.1/3.2 available upon request;
Counterflange, acceptance certificate 3.1/3.2 available upon request
Screw
Flat glass
Seals