

Oblong rectangular sight glass

Application

- Visual inspection of the inside of tanks, vessels, silos, etc.
- Particularly suitable for liquid level monitoring.

Operating Conditions

- Pressure: 2.5 / 6 / 10 / 25 bar or vacuum.
- Before installing the sight glass, verify that the reinforcement around the vessel opening complies with the AD-Merkblatt standard, according to the vessel wall thickness.

Operating Temperature

- 100°C with tempered soda-lime glass.
- 243°C with borosilicate glass.
- These temperatures apply to unprotected glass (without mica protection).

Material Certificates / Inspection

- Upon request, material certificates and inspection reports can be supplied in accordance with DIN EN 10204 3.1 / 3.2.

Bill of Materials and Material Selection

1. Lower Welding Frame

- Stainless steel 1.4404 or equivalent.
- Carbon steel S235JR+N (RSt 37-2) or equivalent.

2. Gaskets

- KLINGERSil C-4400, Neoprene, PTFE, or equivalent.

3. Glass

- Tempered soda-lime glass: Max. operating temperature 100°C.
- Borosilicate glass: Max. operating temperature 243°C.

4. Upper Frame

- Stainless steel 1.4404 or equivalent.
- (e.g. Carbon steel S235JR+N (RSt 37-2)).

5. Assembly Bolts

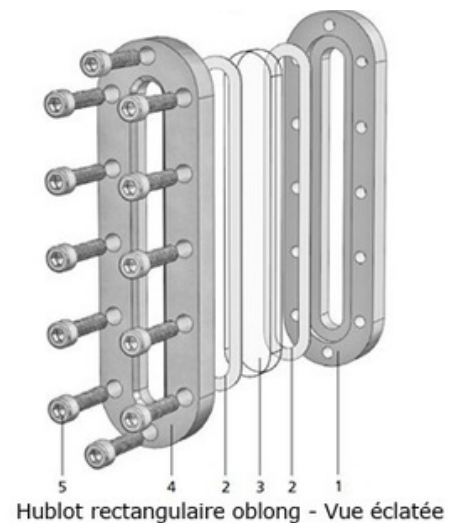
- Stainless steel A4 or carbon steel Grade 8.8.

Machining

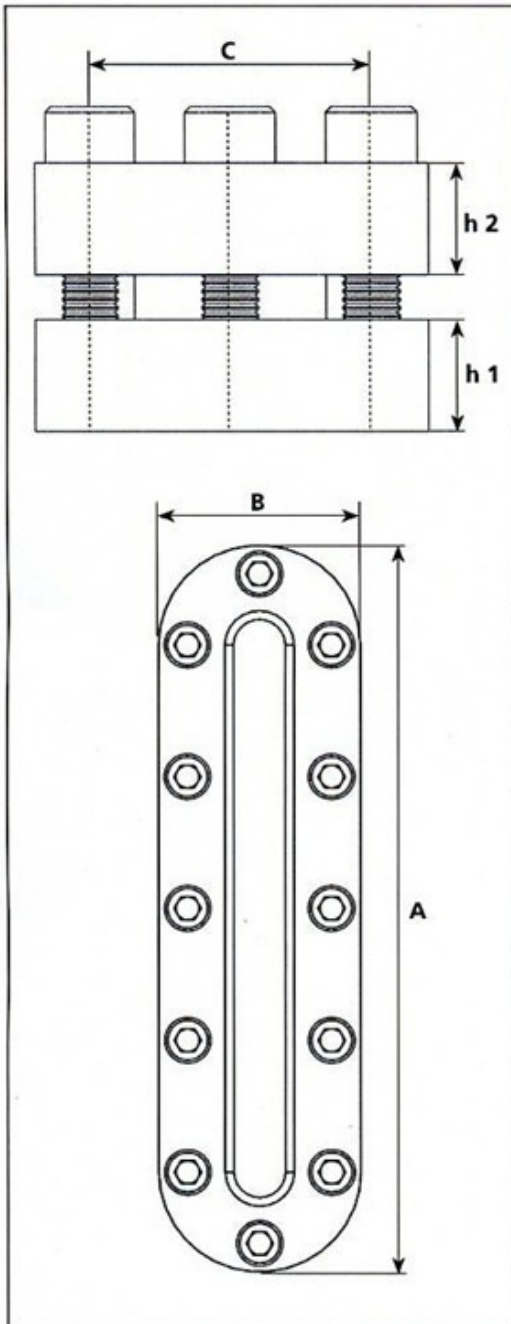
- Radius machining on the lower frame edges for lined vessels (ebonite/rubber lining).
- For installation on cylindrical shells, the lower frame can be machined to the required radius according to customer specifications.

Assembly

- Before installing the glass, ensure that the gasket seating surface is perfectly flat and free from distortion. Any deformation or lack of flatness may result in leakage or even glass breakage.
- Tighten the assembly bolts starting from the centre of the sight glass and continue in a criss-cross (cross-tightening) sequence. Tightening must be carried out progressively and evenly.



Rectangular sight glass dimensions



Size	PN	A	B	length	width	M10 screws (qty)	C	Glass dimensions	Flange thickness h1	Flange thickness h2	Weight Kg
1	2.5	266	116	200	50	8	94	70/10x220	25	15	6.3
2	2.5	341	116	275	50	10	94	70/10x295	25	15	7.6
3	2.5	416	116	350	50	12	94	70/10x370	25	15	9.8
4	2.5	491	116	425	50	14	94	70/10x445	25	15	11.0
5	2.5	566	116	500	50	16	94	70/10x520	25	15	12.3
6	2.5	641	116	575	50	18	94	70/10x595	25	15	14.2
7	2.5	791	116	725	50	22	94	70/10x745	25	15	18.0
1	6	261	96	195	30	10	74	50/10x215	25	15	5.6
2	6	316	96	250	30	10	74	50/10x270	25	15	7.0
3	6	371	96	305	30	14	74	50/10x325	25	15	8.0
4	6	426	96	360	30	14	74	50/10x380	25	15	8.9
5	6	481	96	415	30	18	74	50/10x435	25	15	10.0
6	6	536	96	470	30	20	74	50/10x490	25	15	12.0
7	6	646	96	580	30	24	74	50/10x600	25	15	13.7
1	10	260	80	198	18	12	58	34/10x215	25	15	5
2	10	305	80	243	18	14	58	34/10x260	25	15	5.8
3	10	350	80	288	18	16	58	34/10x305	25	15	6.5
4	10	395	80	333	18	18	58	34/10x350	25	15	7.5
5	10	440	80	378	18	20	58	34/10x395	25	15	8
6	10	485	80	423	18	22	58	34/10x440	25	15	9.5
7	10	575	80	513	18	26	58	34/10x530	25	15	13.0
1	25	186	80	121	15	10	58	34/17x140	25	20	4.0
2	25	211	80	146	15	10	58	34/17x165	25	20	4.5
3	25	236	80	171	15	12	58	34/17x190	25	20	5.0
4	25	296	80	231	15	14	58	34/17x250	25	20	6.0
5	25	326	80	261	15	16	58	34/17x280	25	20	6.8
6	25	366	80	301	15	18	58	34/17x320	25	20	7.5
7	25	386	80	321	15	18	58	34/17x340	25	20	8.0



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