

Weld-on rectangular sight glass, type HRL

Use:

Internal observation of tanks, vessels, silos, etc. Particularly suited to liquid level monitoring.

Operating conditions:

Pressure: 16 bar. Before opening the sight glass, check the reinforcement of the cutout depending on the tank wall in accordance with AD Merkblatt B9.

Operating temperature:

100°C with soda-lime glass DIN 8903. 243°C with borosilicate glass DIN 7081. These temperatures apply to unprotected glass (without mica backing).

Material certificates / receipt:

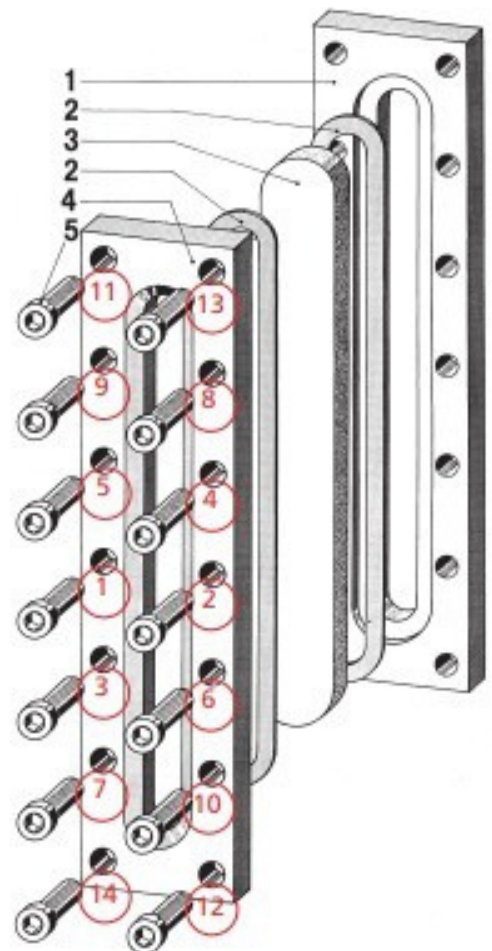
On request, 3.1.B certificates can be provided.

Nomenclature and material selection:

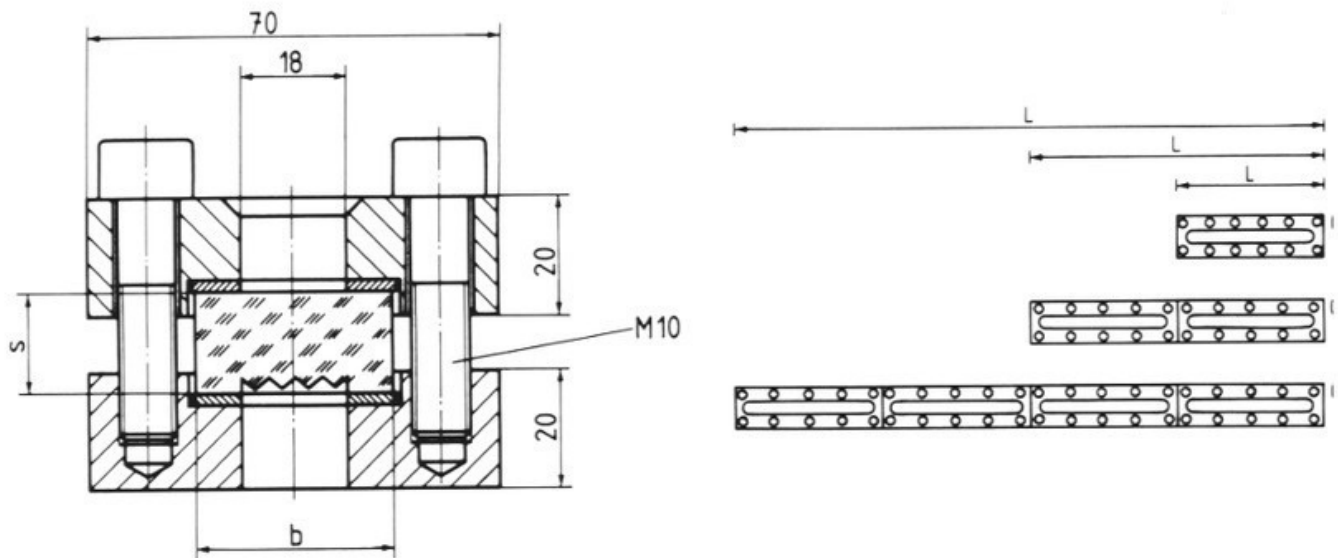
1. Lower frame:
 - Material: steel S235, P265GH; stainless steel 1.4307, 1.4404, 1.4571, or others
2. Gaskets:
 - Material: neoprene, PTFE, Klingsil C-4400, or others
3. Glass:
 - Soda-lime glass per DIN 8903, admissible temperature up to 500°C
 - Borosilicate glass per DIN 7081, admissible temperature:
 - 0°C (up to 10 bar)
 - 300°C (peak at 16 bar)
4. Upper frame:
 - Material: steel S235, P265GH; stainless steel 1.4404, 1.4307, 1.4571, or others
5. Assembly screws:
 - Material: specified as needed

Mounting:

Stainless steel A2 – tightening torque 22 Nm. Before installing the glass, check the flatness and evenness of the gasket seating surface. Deformations or flatness defects can lead to sealing problems or even glass breakage. Tighten the assembly screws progressively and evenly.



Characteristics of rectangular sight glasses



Size	0	1	2	3	4	5	6	7	8	9
Viewing length	L	250	300	350	400	500	600	700	800	1000
	l	18	18	18	18	18	18	18	18	18
	L	206	264	304	354	2x 206	2x 264	2x 304	2x 354	4x 206
Glass (1)	Qty	1	1	1	1	2	2	2	2	4
	l	220	280	320	370	220	280	320	370	220
	b	34	34	34	34	34	34	34	34	34
	s	17	17	17	17	17	17	17	17	17

(1) As standard, these sight glasses are fitted with "reflex" glass. These can be replaced with transparent glass (on request).

The "L" lengths in the table are the standard lengths. Other lengths, versions, and materials are available.

Rounded ends, 2 x R, optional.

LUMIGLAS rectangular sight glasses can be supplied with a closed weld-on flange (see diagram) for connecting piping. In this case, the weld-on flange is provided with tapped holes.

