Rectangular Type HRL for Welding

Usage:

Observation of the interior of tanks, cisterns, vessels, silos, etc. Particularly suitable for liquid level control.

Operating Conditions:

Pressure: 16 bars and vacuum.

Before installation of the sight glass, verify the reinforcement of the cutout according to the tank wall, in compliance with AD Leaflet B9.

Operating Temperature:

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

Material Certificates / Acceptance:

Upon request, 3.1.B certificates can be provided.

Material Selection and Nomenclature:

Lower Frame:

- Materials: Steel S235, P265GH; Stainless steel 1.4307, 1.4404, 1.4571 or others

Seals:

- Materials: Neoprene, PTFE or others

Glass:

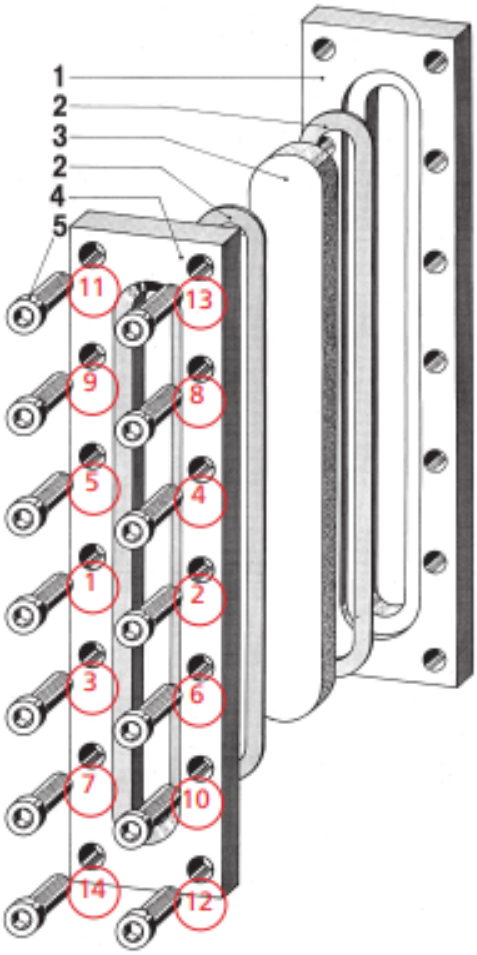
- Klingersil C-4400, or others
- Soda-lime glass according to DIN 8903, maximum temperature: up to 500°C
- Borosilicate glass according to DIN 7081, maximum temperature:
- 0°C (up to 10 bars)
- 300°C (peak at 16 bars)

Upper Frame:

- Materials: Steel S235, P265GH, Stainless steel 1.4404, 1.4307, 1.4571 or others

Assembly Screws:

- Materials: Specified according to requirements



Assembly:

Stainless steel A2 – tightening torque 22 Nm.

Before installing the glass, check for any deformations and the flatness of the sealing surface. Deformations or flatness defects can lead to sealing issues or even breakage of the glass.

The tightening of the assembly screws should be gradual and uniform.

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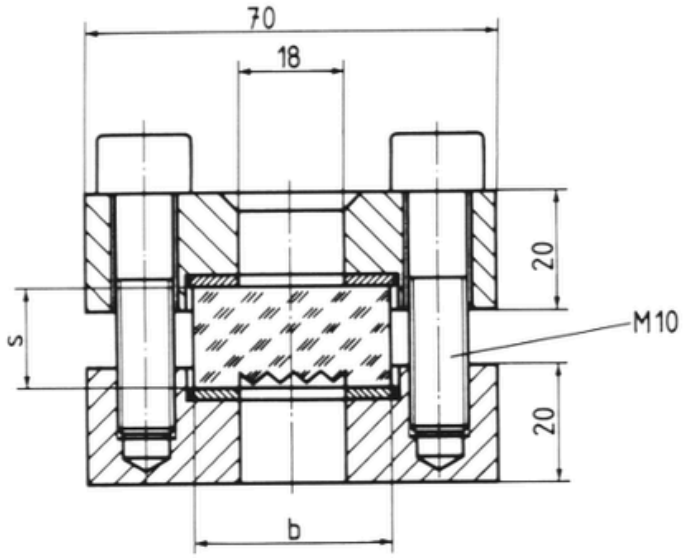
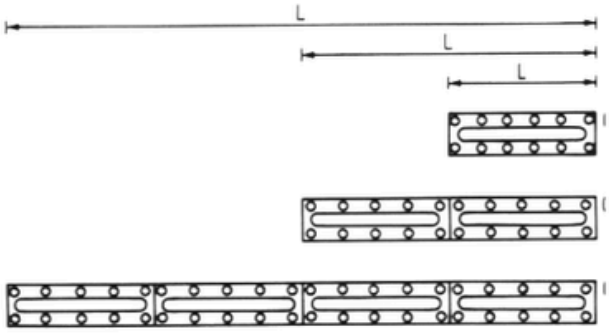
Characteristics of Rectangular sight glass





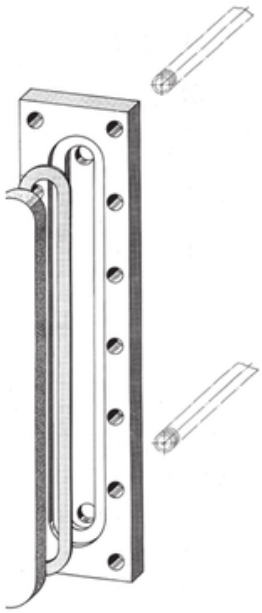
Taille	0	1	2	3	4	5	6	7	8	9
Longueur	L	250	300	350	400	500	600	700	800	1000
visibilité	l	18	18	18	18	18	18	18	18	18
	L	206	264	304	354	2x 206	2x 264	2x 304	2x 354	4x 206
Vitre (1)	Nbre	1	1	1	1	2	2	2	2	4
	l	220	280	320	370	220	280	320	370	220
	b	34	34	34	34	34	34	34	34	34
	s	17	17	17	17	17	17	17	17	17

As standard, these portholes feature "reflex" glass, which can be substituted with transparent glass upon request.

The "L" lengths presented in the table are standard measurements. Additional dimensions, variations, and materials can be provided upon request.

Optional 2 x R with rounded ends.

LUMIGLAS rectangular portholes can be supplied with a closed welding flange (refer to the diagram), facilitating the connection of pipes. The welding flange is subsequently equipped with threaded holes.



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