armat) SIGHT GLASSES, LIGHT FITTINGS



NETRO MM UX

Rectangular sightglass type: RSG **RSGR** RSGRR

Rectangular sightglass Certificate TÜV, size 170 - 1000



Rectangular sightglass fitting series RSGRR, size 250, with reflex glass



Application:

• Rectangular VETROLUX[®] sightglasses of the series RSG / RSGR / RSGRR may be used to observe the interior of reactors, columns, silos, vessels, storage tanks and pipelines. They serve mainly as liquid level gauges. The are delivered ready to be welded into or onto a vessel wall, complete with the appropriate seals, glass plates, and cover fastenings.

Operating conditions:

- Nominal pressure 16 bar
- Vacuum

• Note: The nominal pressure indicated refers to the design base of the sightglass. When welded into the vessel concerned, the base frame becomes part of the vessel wall. It is necessary, therefore, that appropriate strength calculations are made on all vessels concerned with respect to the design pressure and size of the vessel and in accordance with the relevant design code. If found to be necessary, reinforcement of the vessel wall has to be carried out.

Operating temperatures:

- 100 °C max. with sodium silicate glass to DIN 8903
- 243 °C max. with borosilicate glass to DIN 7081
- Note: the above indicated temperatures refer to the use of the unprotected glass plates, with no protective mica sheets.

Standard materials:

- RSt 37-2 or HII (boiler plate) / AISI 316 Ti stainless steel • Base flange:
- Cover flange:
- Glass plate:
- RSt 37-2 or HII (boiler plate) / AISI 316 Ti stainless steel
 - toughened sodium silicate glass to DIN 8903 (max. 100 °C) toughened borosilicate glass to DIN 7081 (max. 243 °C)
- Gaskets:
- KLINGERsil C4400 / Neoprene / PTFE / Viton • Cover fastenings: Steel, quality 8.8 / Stainless steel
- Other materials on request.

Certificates:

• Against extra charge, material certificates to EN 10204 3.1 / 3.1 AD-W2, as well as glass certificates to EN 10204 2.2 and FDA certificate for gasket may be supplied. Please formulate your needs already when demanding our quotation.

Options:

• Version with closed base frame (drawing left) to be used as an external liquid level gauge with top and bottom pipe connections. For this application, the base frame will be supplied appropriately drilled and tapped.

- Radiused base frame to suit vessel wall.
- Clear (transparent) glass plate.
- Alternative versions in shape and size.

• Remarks: The TÜV approval does not apply to the base flange as this is considered as part of the vessel wall after welding. Standard delivery includes a reflex (fluted) glass plate. In circumstances where a clear (transparent) glass plate is required, this must be clearly stated at the time of enquiry.

After welding into the vessel, the base frame should be checked to ensure that the sealing surface is flat and has not become distorted to avoid possible leakage under pressure and / or breakage of the glass plate during tightening of the cover frame bolts. This process should be carried out in several steps and progressively alternating between each pair of opposite bolts from one end of the frame to the other! Tighten first little, then repeat the operation.

Type designation:

- Series RSG: Base and cover frame in steel RSt 37-2
- Series RSGR: Base frame in AISI 316 Ti and cover frame in RSt 37-2
- Series RSGRR: Base and cover frame in stainless steel AISI 316 Ti

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SIGHT GLASSES, LIGHT FITTINGS









Туре	Size	Length A	Number of units	Free view C	Glass length B	Bolts		Weight
						Number	D	(kg)
RSG								
RSGR	170	170	1	124	140	8	50	2,70
RSGRR								
RSG								
RSGR	250	250	1	204	220	10	50	4,40
RSGRR								
RSG								
RSGR	300	300	1	264	280	14	50	5,00
RSGRR								
RSG								
RSGR	350	350	1	304	320	16	50	6,00
RSGRR								
RSG	100	10.0				10	-0	
RSGR	400	400	1	354	370	18	50	7,00
RSGRR								
RSG	500	500	2	2 x 204	2 220	20	50	0.10
RSGR RSGRR	500	500	2	2 x 204	2 x 220	20	50	9,10
RSGRR								
RSGR	600	600	2	2 x 264	2 x 280	28	50	10,50
RSGRR	000	000	2	2 X 204	2 x 200	20	50	10,50
RSG								
RSGR	700	700	2	2 x 304	2 x 320	32	50	12,00
RSGRR	700	700	2	2 x 304	2 x 520	52	50	12,00
RSG								
RSGR	800	800	2	2 x 354	2 x 370	36	50	14,00
RSGRR			_					1 1,00
RSG								
RSGR	1000	1000	4	4 x 204	4 x 220	40	50	17,00
RSGRR								

2) Subject to changes without preliminary notice.

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