



With LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) design appraisal

USE:

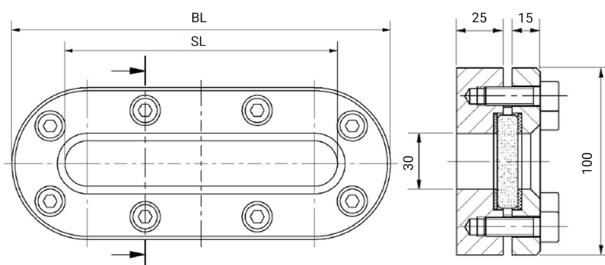
Longitudinal sight glass fittings are used to observe and illuminate the inside of closed vessels (boilers, tanks, silos, etc.).
Sight glass fittings type 336 are oval longitudinal sight glass fittings for welding in or on, each completed with a sight glass plate inserted between the gaskets and screwed tight.

INSTALLATION INSTRUCTIONS:

After welding in the base frame, check whether the sealing surface has warped. If necessary, this must be reworked! Also observe the specified torques for the screw connection, according to the operating and maintenance instructions!
The operating pressure does not apply to the base frame, this must be tested together with the pressure device according to AD leaflet B9!

OPERATING CONDITIONS		
Temperature: (depending on glass and gasket)	≤ 280°C	Borosilicate glass transparent similar to DIN 7081
Pressure:	≤ 6 bar(g)	

DRAWING:



MATERIALS	
Base frame:	1.4571; 1.4404
Glass:	Borosilicate glass transparent similar to DIN 7081
Gasket: ¹	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite
Screws:	A4-70
Special materials on request	

BL [mm]	250	310	370	430	490	550	610	670
SL [mm]	180	240	300	360	420	480	540	600
Weight [kg]	5,6	6,9	8,2	9,6	10,9	12,2	13,6	14,9

	The design appraisal by LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) does not replace the final acceptance of the entire plant! A new final acceptance of the plant or vessel is required after welding of the base frame.
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¹ See „INFO-gasket“ leaflet

PRODUCT CODE:

Example to explain the code composition

11-336-430-2-1-4-000						
GROUP	TYPE	OVERALL LENGTH	BASE FRAME ¹	GLASS	GASKET	VARIANT
11	336	250	2) 1.4571	1) Borosilicate glass transparent similar to DIN 7081	1) PTFE	000) Standard
		310	3) 1.4404	6) Special	2) FKM	
		370	8) Special		3) NBR	
		430			4) C4400	
		490			5) Silicone	
		550			6) EPDM	
		610			7) Graphite	
		670			8) Special	

1) Cover frame according to quotation/order confirmation



Unless otherwise stated, the highlighted factory standard is supplied.

EXAMPLE:

11-336-430-2-1-4-000 equivalent to:
ACI Type 336
430 mm overall length
Base frame made of 1.4571
Cover frame made of 1.4571
Borosilicate glass transparent similar to DIN 7081
Gasket C4400
Standard version
- Special lengths on request
- other equipment optional

CONSTRUCTION:

Screws

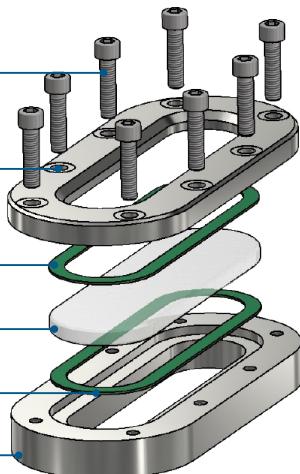
Cover frame

Gasket (on the atmosphere side)

Sight glass

Gasket (on the media side)

Base frame



For aggressive media or steam, mica discs should be used to protect the glass.

QUICK OVERVIEW:



PN 6
≤ 6 bar(g)



heat-resistant up to
280 °C



for liquid
media



for gaseous
media



Overall length
BL 250 up to 670



Customized products
possible



> 50 gasket
materials



Additional equipment
available

OPERATING CONDITIONS:

Operating conditions depend on the
choice of glass and gaskets:

		SIGHT GLASS	GASKETS						
TEMPERATURE	PRESSURE		PTFE max. 200 °C	FKM max. 200 °C	NBR max. 80 °C	C4400 max. 175 °C	Silicone max. 180 °C	EPDM max. 130 °C	Graphite > 400 °C
	up to 80 °C	✓	✓	✓	✓	✓	✓	✓	
	up to 130 °C	✓	✓	✓	✗	✓	✓	✓	
	up to 150 °C	✓	✓	✓	✗	✓	✗	✓	
	up to 175 °C	✓	✓	✓	✗	✓	✗	✓	
	up to 200 °C	✓	✓	✗	✗	✗	✗	✓	
	up to 280 °C	✓	✗	✗	✗	✗	✗	✓	
		up to 3 bar (g)	✓	✓	✓	✓	✓	✓	✓

✓ suitable ✗ unsuitable

OPTIONAL EQUIPMENT:



Mica discs



Nearly cavity-free design



- up to 300°C with borosilicate glass
- DIN 7081 transparent
- with stepped glass



FEP protective screen/ coating

- for high pH values