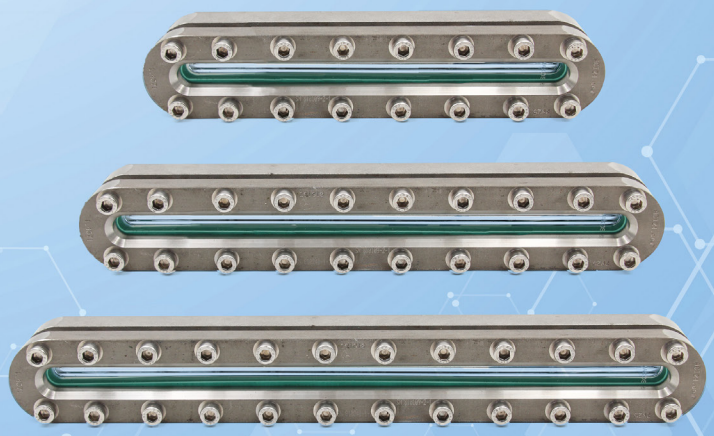
Oval Sight Glass Fitting PN 25

for level indication

TYPE 337



Oval design

USE:

Observation of the liquid level inside closed vessels (boilers, tanks, silos, etc.).
Sight glass fittings type 337 are oval longitudinal sight glass fittings for welding in or on, each completed with a sight glass plate inserted between the gaskets and firmly screwed in place.

INSTALLATION INSTRUCTIONS:

After welding in the base frame, check whether the sealing surface has warped. If necessary, it 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 flange, this must be verified together with the pressure vessel according to AD 2000 instruction leaflet B9 or equivalent code!

REFLECTIVE AND TRANSPARENT GLASS:

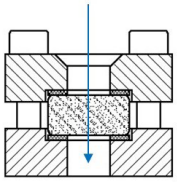
In the case of clear media, dark or non-illuminated vessels or a closed level indicator, the use of a reflex sight glass is recommended (see adjacent picture).
Due to the refraction of light in the incorporated prisms, the level can be seen better. However, if the vessel is illuminated, the medium is very clear or if the color of the medium should be visible, a transparent glass should be used.
Reflex glass cannot be protected with mica glass, as this will prevent reflection.
We will be happy to help you select the appropriate design.

OPERATING CONDITIONS		
Temperature: (depending on glass and gasket)	≤ 243°C	Borosilicate glass reflex and transparent (saturated steam or hot water pressure)
	≤ 280°C	Borosilicate glass reflex and transparent (without technically significant glass attack)
	≤ 320°C	Borosilicate glass transparent (with mica protection)
Pressure:	≤ 25 bar(g)	

MATERIAL	
Base frame:	1.4571; 1.4404
Glass:	Boroilicate glass (according to or similar) DIN 7081 reflex or transparent glass
Gasket:[1]	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite
Screws:	A4-70
Special materials on request	

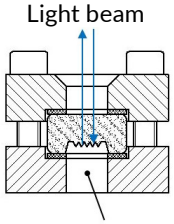
1) Siehe „INFO Dichtungen“

Light beam



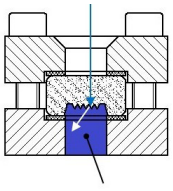
Transparent glass

Light beam



Reflex glass without liquid

Light beam



Reflex glass with liquid

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TYPE 337

PRODUCT CODE:

Example to explain the code composition

11 - 337 - 256 - 2 - 1 - 4 - 000

GROUP	TYPE	OVERALL LENGTH	BASE FRAME[1]	GLASS	GASKET	VARIANT
11	**337**	176	**2) 1.4571**	**1) Borosilicate glass (DIN 7081) transparent glass**	1) PTFE	**000) Standard**
		226	3) 1.4404	2) Borosilicate glass (DIN 7081) transparent glass	2) FKM	
		256	8) Sonder	+ mica discs	3) NBR	
		316		3) Borosilicate glass (DIN 7081) reflective glass	**4) C4400**	
		376		5) Borosilicate glass untempered transparent glass	5) Silicone	
		436			6) EPDM	
		496			7) Graphite	
		536			8) Special	

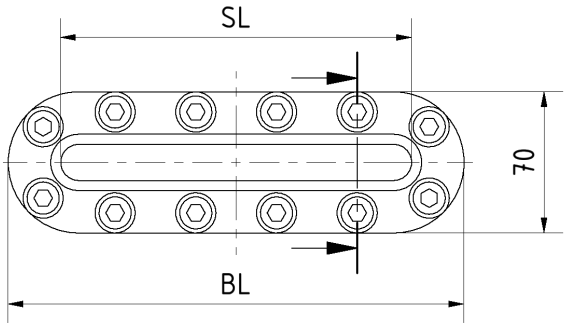
1) Cover frame according to offer/order confirmation

Unless otherwise stated, the highlighted factory standard is supplied.

EXAMPLE:

11-337-256-2-1-4-000 equivalent to:
ACI Type 337
256 mm overall length
Base frame made of 1.4571
Cover frame made of 1.4571
Borosilicate glass (DIN 7081) transparent glass
Gasket C4400
Standard version
- Special lengths on request
- other equipment optional

DRAWING:



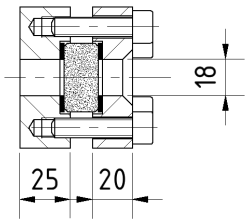


Illustration with transparent glass

BL [mm]	176	226	256	316	376	436	496	536
SL [mm]	124	174	204	264	324	384	444	484
Weight [kg]	3,3	4,3	4,9	6,0	7,1	8,3	9,4	10,2

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TYPE 337

QUICK OVERVIEW:

PN 25
≤ 25 bar(g)

heat-resistant up to
320 °C

for liquid
media

for gaseous
media

Overall length
BL 176 bis 536

Customized products
possible

> 50 gasket
materials

Additional equipment
available

OPERATING CONDITIONS:

Operating conditions depend on the choice of glass and gaskets:

		SIGHT GLASS				GASKETS						
		Borosilicate glass (DIN 7081) transparent glass	Borosilicate glass (DIN 7081) transparent glass + mica discs	Borosilicate glass (DIN 7081) reflective glass	Borosilicate glass untempered transparent glass	**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
TEMPERATURE	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 320 °C	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✓
PRESSURE	up to 25 bar (g)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ suitable ✗ unsuitable

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OPTIONAL EQUIPMENT:

Mica discs

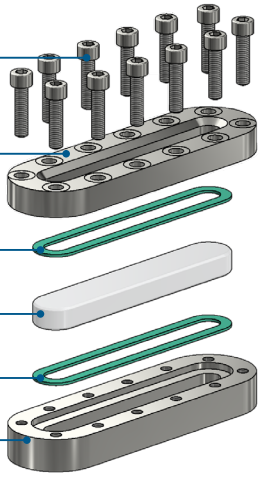
- bis 300°C mit Borosilikatglas DIN 7081 transparent

FEP protective screen/ coating

- for high pH values

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

CONSTRUCTION:



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