

# Oval sight glass fitting PN 25

TYPE 337

for level indication



#### 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.

OPERATING CONDITIONS						
<b>Temperature:</b> (depending on glass and	≤ 243°C	Borosilicate glass reflex and transparent (saturated steam or hot water pressure)				
gasket)	≤ 280°C	Borosilicate glass reflex and transparent (without techni- cally significant glass attack)				
	≤ 320°C	Borosilicate glass transparent (with mica protection)				
Pressure:	≤ 25 bar(e					

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

1) See "INFO-gasket" leaflet

## **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.

#### Light beam

Transparent glass

#### Light beam



without liquid





with liquid



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## **PRODUCT CODE:**

Example to explain the code composition.

11-337-256-2-1-4-000											
GROUP	ТҮРЕ	OVERALL LENGTH	H BASE FRAME <sup>1</sup>			GLASS		GASKET		VARIANT	
11	337	176	2)	1.4571	1)	Borosilicate glass (DIN 7081) transparent glass	1)	PTFE	000)	Standard	
		226	4)	1.4404	2)	Borosilicate glass (DIN 7081) transparent glass	2)	FKM			
		256	8)	Special		+ mica discs	3)	NBR			
		316			3)	Borosilicate glass (DIN 7081) reflective glass	4)	C4400			
		376			5)	Borosilicate glass unhardened transparent glass	5)	Silicone			
		436					6)	EPDM			
		496					7)	Graphite			
		536					8)	Special			

**DRAWING:** 

1) Cover frame according to offer/order confirmation



Unless otherwise specified, the highlighted work standard is delivered.

### **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



Picture 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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# **OPTIONAL EQUIPMENT:**



Mica discs up to 320°C with borosilicate glass DIN 7081 transparent



FEP-protective screen or FEP-coating for higher pH values





For aggressive media or steam, mica lenses should be used to protect the glasses. (Not possible for reflective glasses, as this would cause them to lose their function).

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