# Longitudinal sight glass fitting type 337 PN 25

For welding in or on









Oval execution

#### **USAGE**

Longitudinal sight glass fittings serve to observe the liquid level inside closed containers (boilers, tanks, silos, etc.). Sight glass fittings of type 337 are oval longitudinal sight glass fittings for welding in or onto, completed with one sight glass plate sandwiched and securely fastened between the gaskets.

OPERATING CO	NDITIONS						
Temperature: (depending on glass and gasket)	≤ 243℃	Borosilicate glass reflex and transparent DIN 7081 (Saturated steam or hot water pressure)					
	≤ 280 °C	Borosilicate glass reflex and transparent DIN 7081 (without technically significant glass attack)					
	≤ 320°C	Borosilicate glass transparent DIN 7081 (with mica protection)					
Pressure:	≤ 25 barg						

Materials								
Base frame:	1.4571; 1.4404							
Glass: Borosilicate glass (similar to or similar to) I 7081 reflex or transparent glass								
Gasket¹:	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite							
Screws	A2-70 / A4-70							
Special materials on request								

1) See "INFO Gaskets"

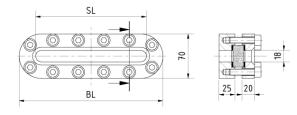
### **INSTALLATION NOTE**

After welding the base frame, it must be checked whether the seal surface has warped. If necessary, reworking must be done! Please also observe the specified torque values for the bolting, according to the operating and maintenance instructions! The working pressure does not apply to the base frame, this must be checked together with the pressure device according to AD2000 Leaflet B9!

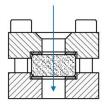
#### REFLECTIVE AND TRANSPARENT GLASS

For clear media, dark or unilluminated containers, or a closed level indicator, the use of a reflective sight glass is recommended (see next to the image). The light refraction in the embedded prisms can make the level more recognizable. If the container is illuminated, the medium is very clear, or if the color of the medium needs to be recognized, a transparent glass should be used. Reflective glass cannot be protected with mica plates, as this would interrupt the reflection. We are happy to assist you in selecting the suitable version.

#### **DRAWING**

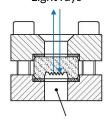






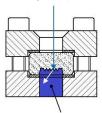
Transparent glass





Reflection glass without liquid

Light rays



Reflection glass with liquid

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** 

#### **PRODUCT CODE**

Example for Explaining the Code Composition

GROUP	TYPE	LENGTH	BASE FRAME	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) Special	Mica protection pane	3) NBR	
		316		3) Borosilicate glass (DIN 7081) reflective glass	4) C4400	
		376		5) Non-tempered borosilicate glass transparent glass	5) Silicone	
		436			6) EPDM	
		496			7) Graphite	
		536			8) Special	

Unless otherwise specified, the highlighted factory standard will be delivered.



#### **EXAMPLE**

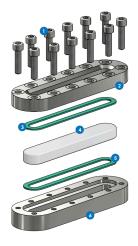
The product code 11-337-256-2-1-4-000 corresponds to the standard version:

ACI type 337 256 mm long PN 25

Base frame made of 1.4571 Cover frame made of 1.4571 Borosilicate glass transparent DIN 7081 Gasket KlingerSil® C4400

#### **STRUCTURE**

- 1. Screws
- 2. Cover frame
- 3. Glass cushions
- 4. Sight glass
- 5. Gasket
- 6. Base frame





For aggressive media, FEP or Halar® coated sight glass plates can be used. In case of steam, mica discs should be used to protect the glasses.

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# **QUICK OVERVIEW**



max. 25 barg



heat-resistant up to 320



for liquid media



for gaseous media



Total length 176 - 536 mm



Custom made design possible



>50 gasket materials



Accessories 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 protection	Borosilicate glass (DIN 7081) reflective glass	Borosilicate glass untempered transparent glass	<b>PTFE</b> max. 200 °C	<b>FKM</b> max. 200 °C	<b>NBR</b> max. 80 °C	<b>C4400</b> max. 175 °C	<b>Silicone</b> max. 180°C	<b>ЕРDМ</b> max. 130 °C	<b>Graphite</b> > 400 °C
	up to 130 °C	<b>⊘</b>	<b>⊘</b>	<b>②</b>	<b>⊘</b>	<b>②</b>	<b>②</b>	*	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>
끮	up to 150 ℃	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>②</b>	<b>②</b>	*	<b>⊘</b>	<b>⊘</b>	<b>(X)</b>	<b>②</b>
TEMPERATURE	up to 175 ℃	<b>⊘</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	*	<b>②</b>	<b>②</b>	<b>(X)</b>	<b>②</b>
MPE	up to 200°C	<b>⊘</b>	<b>⊘</b>	<b>②</b>	<b>②</b>	<b>⊘</b>	<b>②</b>	*	*	*	*	<b>⊘</b>
H	up to 280 ℃	<b>⊘</b>	<b>②</b>	<b>②</b>	<b>②</b>	*	*	*	*	*	<b>(X)</b>	<b>②</b>
	up to 320°C	*	<b>⊘</b>	*	<b>②</b>	*	*	*	*	*	*	<b>⊘</b>
PRESSURE	up to 25 barg	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>

suitable

unsuitable

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## **OPTIONAL ACCESSORIES**



FEP protective screen / coating

> for high pH values



Mica discs in longitudinal form with round ends

up to 320 °C with Borosilicate glass DIN 7081 transparent

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