

With flange connections according to DIN EN 1092-1

## USAGE

Tubular sight glasses of type 671 are used to observe level and flow in pipelines.

They enable reliable 360° monitoring of the function and performance of individual devices as well as complete plants. The tubular sight glasses of type 671 are designed for installation between flanges according to DIN EN 1092-1, PN 25/40.

### Operating conditions:

Temperature: (depending on glass and gasket)	up to 280 °C with tempered Borosilicate glass
Pressure:	≤ 40 barg <sup>1</sup>
Low-temperature operation possible down to a maximum of -60 °C	

1) See table Dimensions & Pressure notes

### Materials:

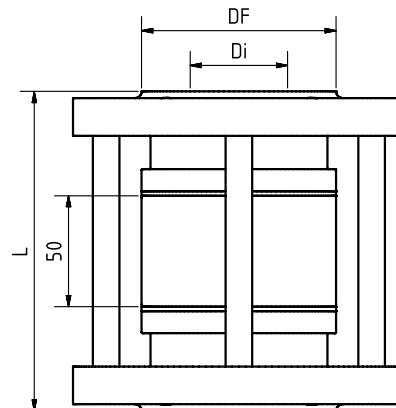
Flange:	1.4571
Glass:	Borosilicate glass
Gasket:	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite
Screws:	A4-70
Special materials on request	

## INSTALLATION NOTE

Gaskets that match the sealing surfaces must always be used. The bolt material should be chosen to be equivalent to or of higher quality than the flange material.

If possible, both the bolt thread and the bolt head should be coated with a suitable lubricant to ensure uniform preload and easier assembly. Tubular sight glasses must be mounted so that no pipe forces (tension, compression, torsion), vibrations, or pressure surges can act on the fitting.

## DRAWING



**Dimensions & pressure notes**

DN	15	20	25	32	40	50	65	80	100	125
Di [mm]	18	23	29	38	44	55	71	83	108	132
DF [mm]	45	58	68	78	88	102	122	138	162	188
L [mm]	134	134	134	144	144	146	148	148	158	174
Weight [kg]	3	3,5	4	6	7	9	11	13	15	19
PS <sup>3</sup> [barg]	40	40	40	30	25	25	25	25	25	20

Outside diameter, bolt circle and drilling according to DIN 1092-1


3) Tempered borosilicate glass

**PRODUCT CODE**

Example for Explaining the Code Composition

**11 - 671 - 7 - 2 - 1 - 1 - 4 - 000**

GROUP	TYPE	NOMINAL SIZE	NOMINAL PRESSURE	FLANGE	GLASS	GASKET	VARIANT
11	671	1) 15	1) 25	1) 1.4571	1) Tempered borosilicate glass	1) PTFE	000) Standard
		2) 20	2) 40	8) Special		4) C4400	
		3) 25				7) Graphite	
		4) 32					
		5) 40					
		6) 50					
		7) 65					
		8) 80					
		9) 100					
		10) 125					

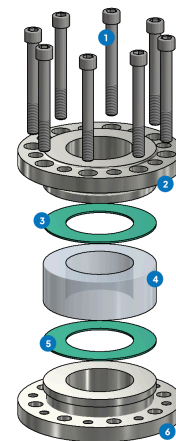
 Unless otherwise specified, the highlighted factory standard will be supplied.

**EXAMPLE**

The product code **11-671-7-2-1-1-4-000** corresponds to the standard design:  
ACI Type 671  
DN 50  
PN 40  
Flanges made of 1.4571  
Tempered borosilicate glass  
Gaskets made of KlingerSil® C4400

**STRUCTURE**

1. Screws
2. Flange
3. Gasket
4. Glass ring - Tubular sight glass Type 641
5. Gasket
6. Flange



**QUICK OVERVIEW**



max. 40 barg



heat-resistant up to 280 °C



for liquid media



for gaseous media



Nominal sizes  
DN 10 - 150



Custom-made designs  
possible



> 50 gasket materials

**OPERATING CONDITIONS**

Operating conditions depend on the choice of glass and gaskets:

		SIGHT GLASS		GASKETS					
		Borosilicate glass tempered	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 > 300 °C
TEMPERATURE	up to 80 °C	✓	✓	✓	✓	✓	✓	✓	✓
	up to 130 °C	✓	✓	✓	✗	✓	✓	✓	✓
	up to 175 °C	✓	✓	✓	✗	✓	✓	✗	✓
	up to 180 °C	✓	✓	✓	✗	✗	✓	✗	✓
	up to 200 °C	✓	✓	✓	✗	✗	✗	✗	✓
	up to 280 °C	✓	✗	✗	✗	✗	✗	✗	✓
PRESSURE	up to 40 barg	✓	✓	✗	✗	✓	✗	✗	✓

✓ suitable    ✗ unsuitable