

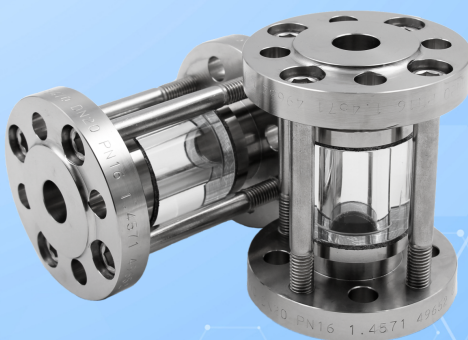


ACI
INDUSTRIEARMATUREN

Tubular sight glass type 670 PN 16

Intermediate-flange design
for flanges according to DIN
EN 1092-1

Type 670



With flange connections according to DIN EN 1092-1

USAGE

Tubular sight glasses of type 670 are used to observe level and flow in pipelines.

They provide reliable 360° monitoring of the operation and performance of individual units as well as entire systems. The tubular sight glasses of type 670 are designed for installation between flanges to DIN EN 1092-1, PN 16.

Operating condition:

Temperature: (depending on glass and gasket)	up to 280 °C with tempered borosilicate glass
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Pressure:	$\leq 16^1 \text{ barg}^2$
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Low-temperature operation possible down to -60 °C

1) For higher values see type 671

2) 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	

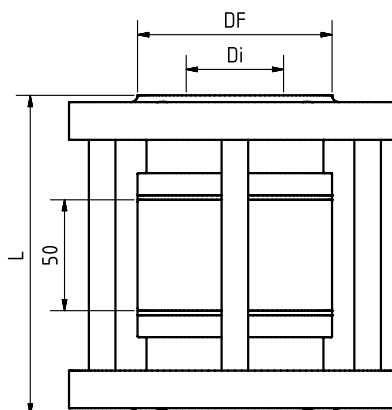
INSTALLATION NOTE

Gaskets that match the sealing surfaces must always be used.

The screw material should be selected to be equivalent to or superior to the flange material.

If possible, both the screw thread and the screw head should be lubricated with a suitable lubricant to ensure an even pretension and easier assembly. Tubular sight glasses must be installed so that no pipe forces (tension, pressure, 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	150	200
Di [mm]	18	22	29	38	44	55	71	83	108	132	160	208
DF [mm]	45	58	68	78	88	102	122	138	158	188	212	268
L [mm]	134	134	134	144	144	146	148	148	158	158	164	164
Weight [kg]	3	3,5	4	6	7	9	11	13	15	19	24	33
PS ² [barg]	16	16	16	16	16	16	16	16	16	16	16	16

2) Borosilicate glass, tempered

Outer diameter, bolt circle and drilled holes according to DIN EN 1092-1

Other nominal sizes available on request



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Type 670

PRODUCT CODE

Example for Explaining the Code Composition

11 - 670 - 7 - 1 - 1 - 4 - 000

GROUP	TYPE	DN	FLANGE	GLASS	GASKET	VARIANT
11	670	2) 15	1) 1.4571	1) Tempered borosilicate glass	1) PTFE	000) Standard
		3) 20	8) Special		2) FKM	
		4) 25			3) NBR	
		5) 32			4) C4400	
		6) 40			5) Silicone	
		7) 50			6) EPDM	
		8) 65			7) Graphite	
		9) 80			8) Special	
		10) 100				
		11) 125				
		12) 150				
		13) 200				
		16) Special				



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

EXAMPLE

The product code **11-670-10-1-1-4-000**

corresponds to the standard version:

ACI type 670

DN 100

PN 16

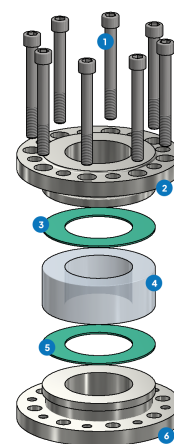
Flanges made of 1.4571

Tempered borosilicate glass

Gaskets made of KlingerSil® C4400

STRUCTURE

1. Screws
2. Flange
3. Gasket
4. Glass ring - Tubular sight glass Type 640
5. Gasket
6. Flange





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Type 670

QUICK OVERVIEW



max. 16 barg



heat-resistant up to 280
°C



for liquid media



for gaseous media



Nominal sizes
DN 15 - 200



Custom-made designs
possible



> 50 gasket materials

OPERATING CONDITIONS

Operating conditions depend on the choice of the glass and the 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 16 barg	✓	✓	✓	✓	✓	✓	✓	✓

✓ suitable ✗ unsuitable

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