

## APPLICATION:

Tubular sight glasses are used for observation of filling and flow in pipelines. The sight glass provides reliable 360° monitoring of the function and performance of individual devices as well as entire systems.

Tubular sight glasses of the type 670 are suitable for installation between flanges according to DIN EN 1092-1 PN16.

## INSTALLATION NOTE:

The flange bolting is taken into account and required for design tightness. Gaskets suitable for the sealing surfaces should be used. The bolt material should be of equal or higher quality than the flange material. If possible, the screw thread and the screw head should be lubricated. Tubular sight glasses must be installed in such a way to prevent pipe forces (tension, pressure and torsion), vibrations and pressure shocks from affecting the fitting!

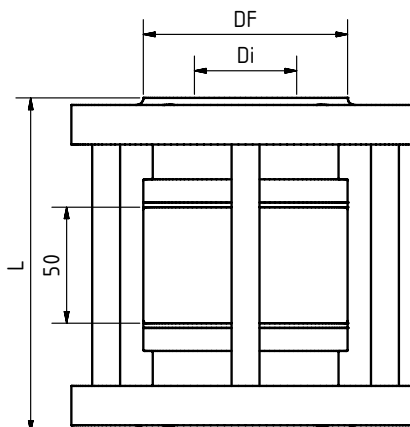
**With flange connections according to DIN EN 1092-1**

## Operating conditions:

Temperature: up to **280 °C** with Borosilicate glass hardened  
(depending on glass and gasket)

Pressure: ≤ 16 bar(g)

Low temperature down to -196°C only on request  
(Higher see Type 671)



## Materials:

Flange: 1.4571  
Glass tube: Borosilicate glass  
Gasket: <sup>1</sup> PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite  
Screws: A4-70 / A2-70\*

Special materials on request  
<sup>1</sup> see INFO gaskets-leaflet  
\*for low temperature

DN	10	15	20	25	32	40	50	65	80	100	125	150	200
Di [mm]	13	18	22	29	38	44	55	71	83	108	132	160	208
DF [mm]	40	45	58	68	78	88	102	122	138	158	188	212	268
L [mm]	134	134	134	134	144	144	146	148	148	158	158	164	164
Wt. [kg]	1	3	3,5	4	6	7	9	11	13	15	19	24	33
PS <sup>2</sup> [bar(g)]	16	16	16	16	16	16	16	16	16	16	16	16	16

Outer diameter, bolt circle and holes according to DIN EN 1092-1 PN16  
Other nominal sizes on request <sup>2</sup> Borosilicate glass hardened

### PRODUCTCODE:

Group	TYPE	DN	Flange	Glass tube	Gasket	Variants
11	670	1: 10 2: 15 3: 20 4: 25 5: 32 6: 40 7: 50 8: 65 9: 80 10: 100 11: 125 12: 150 16: Special	1: 1.4571 8: Special	1: Borosilicate glass hardened	1: PTFE 2: FKM 3: NBR 4: C4400 5: Silicone 6: EPDM 7: Graphite 8: Special	Assigned by ACI if required

**INFO:** Unless otherwise stated, the factory standard highlighted is supplied.

### SPECIAL DESIGNS/OPTIONS:

- a) High pressure version (Type 671 PN 25 / 40)
- b) ASME B16.5 variant on request
- c) Additional options on request

### EXAMPLE:

**11-670-10-1-1-7-000 equivalent to:**

ACI Type 670

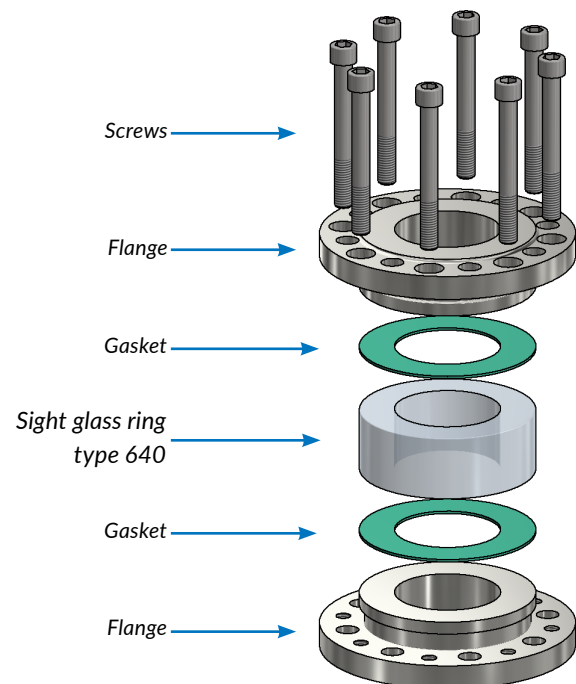
DN 100

Flanges made of 1.4571

Borosilicate glass hardened

Gaskets made of graphite

**Standard version**



### HIGHER OPERATING PRESSURES:

In individual cases, higher operating pressures than those specified may be possible. Please contact us if necessary.