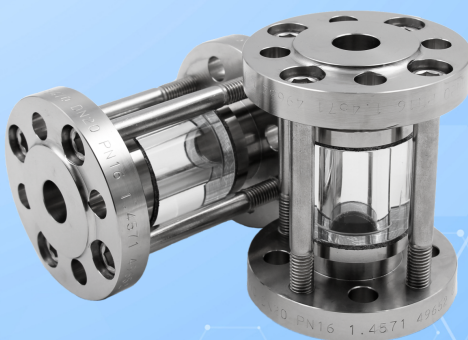




**ACI**  
INDUSTRIEARMATUREN

# Tubular sight glass Type 671 PN 25/40 Between-flange design for flanges according to DIN EN 1092-1

## Type 671



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:<br>(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 |                                                 |

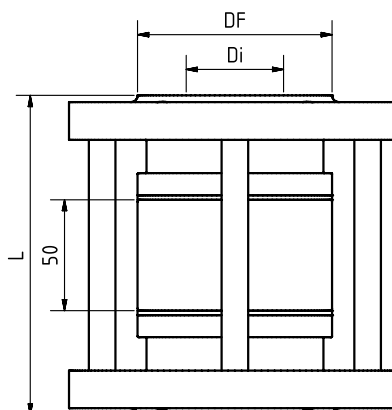
## INSTALLATION NOTE

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





# Tubular sight glass Type 671 PN 25/40 Between-flange design for flanges according to DIN EN 1092-1

## Type 671

### 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



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# Type 671

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

corresponds to the standard design:

ACI Type 671

DN 50

PN 40

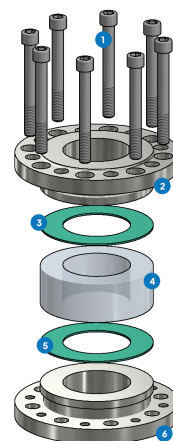
Flanges made of 1.4571

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





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# Tubular sight glass Type 671 PN 25/40

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

# Type 671

## 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<br>tempered | PTFE<br>max. 200 °C | FKM<br>max. 200 °C | NBR<br>max. 80 °C | C4400<br>max. 175 °C | Silicone<br>max. 180 °C | EPDM<br>max. 130 °C | Graphite<br>> 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

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