



Oval design with a 50 mm wide viewing window

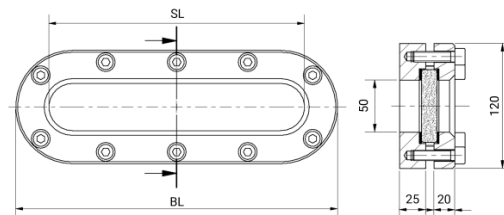
## USAGE

Longitudinal sight glass fittings serve to observe and illuminate the interior of closed containers (boilers, tanks, silos, etc.). Sight glass fittings of type 338 are oval longitudinal sight glass fittings for welding in or onto, completed with a sight glass plate inserted and securely screwed between the gaskets.

## INSTALLATION NOTE

After welding the base frame, it must be checked whether the sealing surface has warped. If necessary, it must be reworked! Please also observe the specified torque values for the bolting, in accordance with 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!

## DRAWING



| Operational Condition                           |           |  |
|---|-----------|--|
| Temperature:<br>(depending on glass and gasket) | ≤ 280 °C  | Borosilicate glass transparent similar to DIN 7081 |
|   | > 280 °C  | upon request                                       |
| Pressure:                                       | ≤ 16 barg |  |

| Materials                    |  |
|------------------------------|--|
| Base frame:                  | 1.4571; 1.4404                                     |
| Glass:                       | Borosilicate glass transparent similar to DIN 7081 |
| Gasket <sup>1)</sup> :       | PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite    |
| Screws:                      | A2-70 / A4-70                                      |
| Special materials on request |  |

1) See "INFO Gaskets"

| BL [mm]     | 270 | 340 | 410  | 480  | 550  | 620  |
|-------------|-----|-----|------|------|------|------|
| SL [mm]     | 200 | 270 | 340  | 410  | 480  | 550  |
| Weight [kg] | 7.2 | 9.0 | 10.9 | 12.7 | 14.5 | 16.3 |

## PRODUCT CODE

Example for Explaining the Code Composition

**11 - 338 - 480 - 2 - 1 - 4 - 000**

| GROUP | TYPE | LENGTH | BASE FRAME <sup>1</sup> | GLASS   | GASKET                | VARIANT       |
|-------|------|--------|-------------------------|---|-----------------------|---------------|
| 11    | 338  | 270    | 2) 1.4571               | 1) Borosilicate glass transparent similar to DIN 7081 | 1) PTFE               | 000) Standard |
|       |      | 340    | 3) 1.4404               | 6) Custom made design                                 | 2) FKM                |               |
|       |      | 410    | 8) Custom made design   |   | 3) NBR                |               |
|       |      | 480    |                         |   | 4) C4400              |               |
|       |      | 550    |                         |   | 5) Silicone           |               |
|       |      | 620    |                         |   | 6) EPDM               |               |
|       |      |        |                         |   | 7) Graphite           |               |
|       |      |        |                         |   | 8) Custom made design |               |

1) Cover frame according to quote / order confirmation

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



## EXAMPLE

The product code **11-338-480-2-1-4-000** corresponds to the standard version:

ACI type 338

480 mm long

PN 16

Base frame made of 1.4571

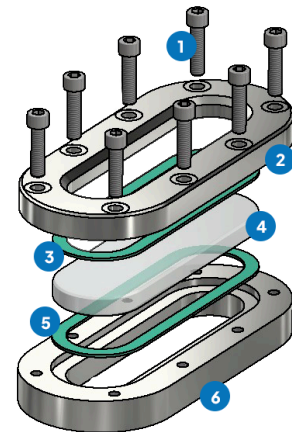
Cover frame made of 1.4571

Borosilicate glass transparent, similar to DIN 7081

Gasket KlingerSil® C4400

## STRUCTURE

1. Screws
2. Cover frame
3. Glass cushion
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.

## QUICK OVERVIEW



max. 16 barg



heat resistant up to 280 °C



for liquid media



for gaseous media



face to face  
270 - 620 mm



Custom made designs possible



> 50 gasket materials



Accessories available

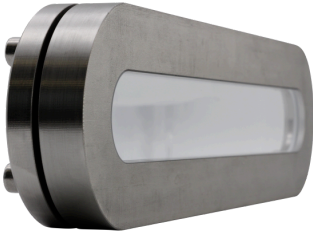
## OPERATING CONDITIONS

TERMS OF SERVICE: Terms of service depend on the choice of glass and gaskets:

|             |               | VIEWING GLASS                                      | GASKETS          |                 |                |                   |                      |                  |                   |  |
|-------------|---------------|--|------------------|-----------------|----------------|-------------------|----------------------|------------------|-------------------|--|
|             |               | Borosilicate glass transparent similar to DIN 7081 | 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 > 400 °C |  |
| TEMPERATURE | up to 80 °C   | ✔  | ✔                | ✔               | ✔              | ✔                 | ✔                    | ✔                | ✔                 |  |
|             | up to 130 °C  | ✔  | ✔                | ✔               | ✘              | ✔                 | ✔                    | ✔                | ✔                 |  |
|             | up to 150 °C  | ✔  | ✔                | ✔               | ✘              | ✔                 | ✔                    | ✘                | ✔                 |  |
|             | up to 175 °C  | ✔  | ✔                | ✔               | ✘              | ✔                 | ✔                    | ✘                | ✔                 |  |
|             | up to 200 °C  | ✔  | ✔                | ✔               | ✘              | ✘                 | ✘                    | ✘                | ✔                 |  |
|             | up to 280 °C  | ✔  | ✘                | ✘               | ✘              | ✘                 | ✘                    | ✘                | ✔                 |  |
| PRESSURE    | >280 °C       | upon request                                       |                  | upon request    |                |                   |                      |                  |                   |  |
|             | up to 16 barg | ✔  | ✔                | ✔               | ✔              | ✔                 | ✔                    | ✔                | ✔                 |  |

✔ suitable    ✘ unsuitable

**OPTIONAL ACCESSORIES**



**Nearly dead space-free design**

> with Stepped glass



**FEP protective screen / coating**

> for high pH values