

Round sight glass fitting PN 16 - PN 40 pipe adapter

For welding onto pipelines

Type **391**



APPLICATION:

Round sightglass fittings are used to observe and illuminate the inside of pipelines. Sight glass fittings type 391 are round flange mountings according to DIN EN 1092-1 with pipe attachment for welding onto pipelines.

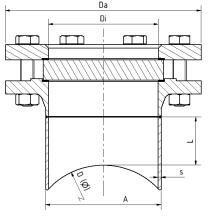
| Operating conditions: | | | | | |
|--|---|--------|--|--|--|
| Temperature: (depending on glass and gasket) | up to 280 °C with Borosilicate glass acc. to DIN 7080 or similar | | | | |
| Pressure: | ≤ 16 up to 320 | bar(g) | | | |
| Low temperature use and higher temperatures / pressures on request | | | | | |

| Materials: | | | | |
|---|--|--|--|--|
| Flange: | 1.4571; 1.4404; 1.4539; 1.4435; 1.4541; 1.4301/7; 1.4876; 1.4828;2.4602; 2.4610 | | | |
| Glass: | Borosilicate glass acc. to DIN 7080 or similar | | | |
| Gasket: 1 | PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite | | | |
| Screws: | A4-70 / A2-70 | | | |
| Special materials on request ¹See INFO gaskets-leaflet | | | | |

INSTALLATION NOTE:

After welding on the base flange, check whether the sealing surfaces have warped! If necessary, they must be reworked! Also observe the specified torques for the screw connection according to the operating and maintenance instructions.

With pipe attachment for welding onto the medium-carrying pipe



D = Nominal size of the medium-carrying pipe

| DN | 100 | 125 | 150 | 200 | 300 | 350 |
|---------------------------------|-------|-------|-------|------------------|------------------|------------------|
| Da (PN16) [mm] | 220 | 250 | 285 | 340 ² | 460 ³ | 520 ³ |
| Wt (PN16) [kg] ⁴ | 10,5 | 14,5 | 18,6 | 28,2 | 55,7 | 78 |
| Da (PN25/40) [mm] | 235 | 270 | 300 | 375 | | |
| Wt. (PN25/40) [kg] ⁵ | 14,8 | 21,1 | 27,5 | 52,6 | | |
| Di [mm] | 107 | 132 | 160 | 207 | 310 | 340 |
| L [mm] (Standard) | 70 | 70 | 70 | 70 | 70 | 70 |
| s [mm] | 3,6 | 4 | 4,5 | 6,3 | 7,1 | 8 |
| A [mm] | 114,3 | 139,7 | 168,3 | 219,1 | 232,9 | 355,6 |

² PS max. 10 bar(g) ³ PS max. 6 bar(g) ⁴ depending on size of D and L

 5 for PN 40, smaller for PN 25 and depending on size of D and L



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PRODUCTCODE:

| Group | TYPE | DN | D (Ø) | PN | Flange* | Glass | | Gasket | Variant |
|-------------|------|--|--|---------------------------------|--|----------|--|---|-----------------------------------|
| Group 11 | 391 | 1: 100 2: 125 3: 150 4: 200 5: 250 5: 300 7: 350 8: 400 9: Special | 1: 125 2: 150 3: 200 4: 250 5: 300 6: 350 7: 400 8: 450 | PN 1: 16 2: 25 3: 40 5: Special | Flange* 2: 1.4571 3: 1.4404 6: Special | 1: 6: | | Gasket 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 and low temperature version on request
- b) Vacuum version (390V)
- c) Wiper SGW
- d) LED lights, for EX and Non-EX areas
- e) FEP protective screen (for higher pH-values)
- f) Mica protection (up to 320 °C with borosilicate glass acc. to DIN 7080 or similar)

ATTENTION!

The pressure-temperature limits according to DIN EN 1092-1 apply!

Our tool of the same name is available on our website for this purpose.

(www.ACI24.com, in the category Service, Tools)



RECOMMENDATION:

For aggressive media or steam, mica discs should be used to protect the glass.

EXAMPLE:

11-391-1-8-1-2-1-1-0 equivalent to:

ACI Type 391

DN 100 sight glass

DN 500 of medium-carrying line

PN 16

Base flange and pipe adapter made of 1.4571

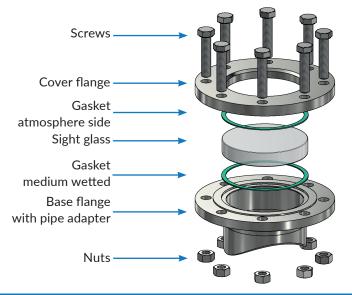
Cover flange made of 1.4571

Borosilicate glass acc. to

Gasket PTFE

Standard design

- additional designs optional



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^{*}Base flange acc. to product code, cover flange according to quotation / order confirmation.