

Execution similar to DIN 28121

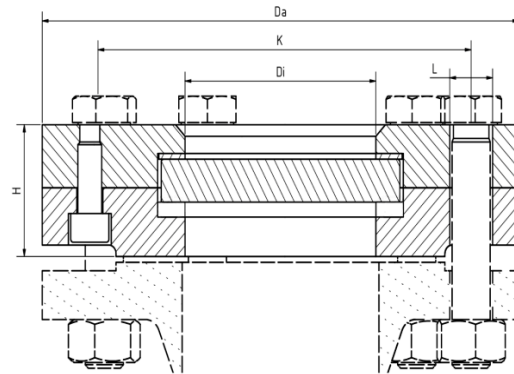
USAGE

Circular sight glass fittings are used for observing and illuminating the interior of closed containers (container, boilers, tanks, silos, etc.). Sight glass fittings of type 323 are suitable for higher temperatures up to 400 °C due to the use of appropriate materials, and the sealing is done in the force shunt.

INSTALLATION NOTE

Suitable gaskets should be used for the sealing surfaces. The screw material should be equivalent to or of higher quality than the sight glass flanges. Generally, use screws that match the hole pattern! If possible, the screw thread and the screw head should be coated with lubricant.

DRAWING



Operating condition

Temperature: (depending on glass and gasket)	$\leq 280\text{ °C}$	Borosilicate glass DIN 7080 or similar
	$\leq 320\text{ °C}$	Borosilicate glass DIN 7080 + mica disc
	$\leq 400\text{ °C}^1$	Borosilicate glass untempered
Pressure:	$\leq 10/25\text{ barg}$	

1) Higher temperatures upon request.

Materials

Base flange:	1.4571; 1.4404; 1.4541; 2.4602; 2.4605
Glass:	Borosilicate glass DIN 7080 or similar Borosilicate glass DIN 7080 + mica disc Borosilicate glass untempered
Seal:	Graphite composite seal
Screws:	A2-70 / A4-70
Special materials on request	

DN	40	50	80	100	125	150	200
Di [mm] PN 10	48	65	80	100	125	125	150
H [mm] PN 10	36	38	46	46	54	54	54
Da [mm] PN 10	150	165	200	220	250	285	340
L [mm] PN 10	18	18	18	18	18	22	22
K [mm] PN 10	110	125	160	180	210	240	295
Weight [kg] PN 10	3,8	4,6	8,2	9,3	13,8	19,5	28,7
H [mm] PN 25	38	41	50	59	66	66	66
Da [mm] PN 25	150	165	200	235	270	300	360
L [mm] PN 25	18	18	18	22	26	26	26
K [mm] PN 25	110	125	160	190	220	250	310
Weight [kg] PN 25	4	5	8,9	14	20	26,9	39,3

PRODUCT CODE

Example for Explaining the Code Composition

11 - 323 - 1 - 100 - 1 - 1 - 7 - 0

GROUP	TYPE	PN	NOMINAL SIZE	BASE FLANGE ¹	GLASS	GASKET	VARIANT
11	323	1) 10	DN 40	1) 1.4571	1) Borosilicate glass according to DIN 7080 or similar	7) Graphite	0) Standard
		2) 25	DN 50	2) 1.4541		8) Borosilicate glass untempered	
			DN 80	3) 1.4404			
			DN 100	4) 2.4602			
			DN 125	5) 2.4605			
			DN 150	6) Special			
		DN 200					

1) Cover flange according to quotation / order confirmation



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

EXAMPLE

The product code **11-323-1-100-1-1-1-0** corresponds to the standard version:

ACI Type 323

DN 100

PN 10

Base flange made of 1.4571

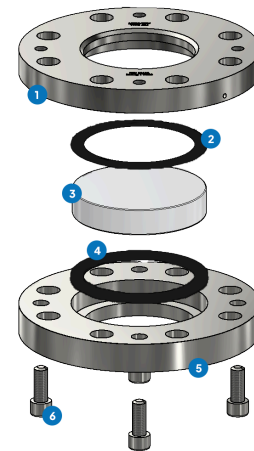
Cover flange made of 1.4571

Borosilicate glass DIN 7080

Graphite composite gasket

STRUCTURE

1. Cover flange
2. Glass cushion
3. Sight glass
4. Graphite composite gasket
5. Base flange
6. Screws



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

QUICK OVERVIEW



max. 25 barg



heat resistant up to 400 °C



for liquid media



for gaseous media



Nominal sizes
DN 40 - 200



Custom made designs
possible



Special sealing materials
possible



Accessories available

OPERATING CONDITIONS

Operational conditions depend on the choice of glass and gaskets:

		Sight glass		Gaskets
		Borosilicate glass DIN 7080 or similar	Borosilicate glass untempered	Graphite > 400 °C
PRESSURE TEMPERATURE	up to 280 °C	✓	✓	✓
	up to 320 °C ¹	✓	✓	✓
	up to 400 °C	✗	✓	✓
	> 400 °C	on request		on request
	up to 10/25 barg	✓	✓	✓

1) With mica protection glass

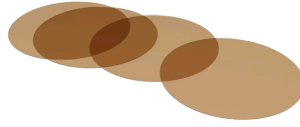
✓ suitable ✗ unsuitable

OPTIONAL ACCESSORIES



Spraying device SV2

- > For intermediate flange mounting



Round mica discs

- > up to 320 °C with Borosilicate glass
DIN 7080



LED lights

- > for Ex and non-Ex areas

NOTE !



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

Our tool with the same name is available on our website.
(www.aci24.com, under Service, sub-item Tools)

