

Design similar to DIN 28121

### USE:

Round sight glasses are used to observe and illuminate the inside of closed vessels (boilers, tanks, silos, etc.). Sight glass fittings of type 323 are suitable for **higher temperatures** than the 200°C provided for in DIN 28121 by using suitable materials. Just like the type 321 according to DIN 28121, the sealing is done in **force shunt**.

### INSTALLATION INSTRUCTIONS:

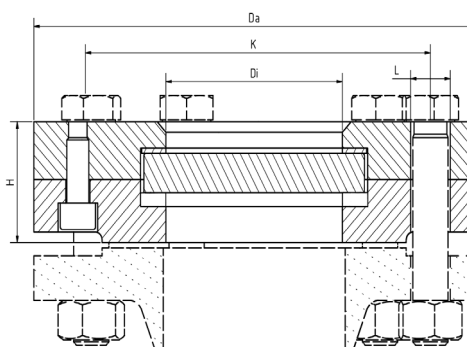
Gaskets matching the sealing surfaces should be used. The screw material should be of equal or higher grade than the sight glass flange. Always use screws that match the bore pattern! If possible, the screw thread and the screw head should be lubricated.

#### OPERATING CONDITIONS

<b>Temperature:</b> (depending on glass and gasket)	≤ 280°C	Borosilicate glass (DIN 7080 or similar)
	≤ 400°C <sup>1</sup>	Borosilicate glass untempered
<b>Pressure:</b>	≤ 10/25 bar(g)	

1) For higher temperatures see type 326

### DRAWING:



#### MATERIALS

<b>Base flange:</b>	1.4571; 1.4404; 1.4541; 2.4602; 2.4605
<b>Glass:</b>	Borosilicate glass (DIN 7080 or similar); Borosilicate glass untempered
<b>Gasket:</b>	Graphite composite gasket
<b>Screws:</b>	A4-70
Special materials on request	

DN	40	50	80	100	125	150	200
Di [mm]	48	65	80	100	125	125	150
H (PN 10) [mm]	36	38	46	46	54	54	54
H (PN 25) [mm]	38	41	50	59	66	66	66
Da [mm]	According to DIN EN 1092-1						
L [mm]							
K [mm]							
Other sizes on request							

### PRODUCT CODE:

Example to explain the code composition

11 - 323 - 1 - 100 - 1 - 1 - 7 - 0								
GROUP	TYPE	PN	NOMINAL SIZE	BASE FLANGE <sup>1</sup>	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) Special		
			DN 80	3) 1.4404	8) Borosilicate glass untempered			
			<b>DN 100</b>	4) 2.4602				
			DN 125	5) 2.4605				
			DN 150	6) Special				
			DN 200					

1) Cover flange according to quotation/order confirmation.



Unless otherwise stated, the highlighted factory standard is supplied.

### EXAMPLE:

**11-323-1-100-1-1-1-0 equivalent to:**

ACI Type 323

PN 10

DN 100

Base flange made of 1.4571

Cover flange made of 1.4571

Borosilicate glass DIN 7080

Graphite composite gasket

**Standard version**

- other equipment optional

### CONSTRUCTION:

Cover flange

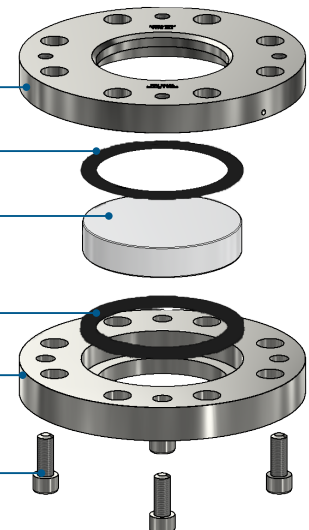
Gasket (on the atmosphere side)

Sight glass

Graphite composite gasket (on the media side)

Base flange

Screws



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

### QUICK OVERVIEW:



PN 10/25  
≤ 10/25 bar(g)



heat-resistant up to  
400 °C



for liquid  
media



for gaseous  
media



Nominal size  
DN 40 - 200



Customized products  
possible



special gasket  
materials possible



Additional equipment  
available

### OPERATING CONDITIONS:

Operating conditions depend on the  
choice of glass and gaskets:

		SIGHT GLASS		GASKETS
		Borosilicate glass (DIN 7080 or similar)	Borosilicate glass untempered	Graphite > 400 °C
TEMPERATURE	up to 280 °C	✓	✓	✓
	up to 400 °C	✗	✓	✓
	> 400 °C	on request		on request
PRESSURE	up to 10/25 bar (g)	✓	✓	✓

✓ suitable    ✗ unsuitable

## OPTIONAL EQUIPMENT:



Mica discs

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



Spraying device SV2

- > made of high-quality stainless steel  
grade 1.4571



LED light

- > for Ex and non-Ex areas

## 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](http://www.ACI24.com), in the Service category, subcategory Tools)



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