



ACI
INDUSTRIEARMATUREN

Circular sight glass fitting type 322 PN 40/160

For flange mounting similar to
DIN 28121

Type 322



USAGE

Container sight glasses of type 322 are suitable for mounting on existing support flanges according to DIN EN 1092-1. The sight glasses are pre-assembled in the factory and delivered ready for installation.

Operating condition

Temperature: (dependent on glass and gasket)	≤ 280 °C	Borosilicate glass DIN 7080 or similar
	≤ 300 °C	Protected by mica disc
Pressure:	≤ 40 barg up to 160 ¹ barg	

1) Higher pressures upon request

Materials

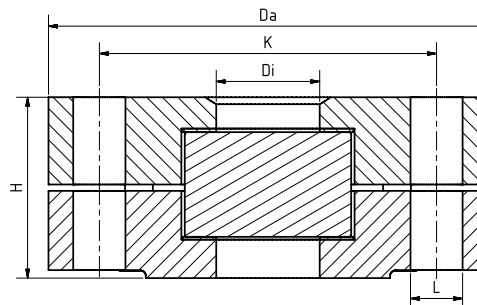
Base flange:	1.4571, 1.4404, 1.4541, 1.4539, 1.4462 ¹ , 2.4602 ¹
Glass:	Borosilicate glass DIN 7080 or similar
Seal:	Graphite
Screws:	A2-70 / A4-70
Special materials on request	

1) Acceptance required according to EN 10204 - 3.2

INSTALLATION NOTE

Seals suitable for the sealing surfaces should be used. The screw material should be equivalent or of higher quality than the sight glass flanges. Generally, use screws that fit the drilling pattern! If possible, the screw thread and the screw head should be lubricated.

DRAWING



DN	40	50	80	100
Di [mm]	40	50	80	100
H (PN 40) [mm]	84	84	84	104
H (PN 63) [mm]	84	84	84	104
H (PN 100) [mm]	84	104	104	104
H (PN 160) [mm]	94	104	104	121
Da [mm]	According to DIN EN 1092-1			
L [mm]				
K [mm]				



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PRODUCT CODE

Example for Explaining the Code Composition

11 - 322 - 4 - 100 - 1 - 1 - 7 - 0

GROUP	TYPE	PN	NOMINAL SIZE	BASE FLANGE ¹	GLASS	GASKET	VARIANT
11	322	1) 40	DN 40	1) 1.4571	1) Borosilicate glass as per DIN 7080	7) Graphite	0) Standard
		2) 63	DN 50	2) 1.4541			
		3) 100	DN 80	3) 1.4404	2) Borosilicate glass ² protected by mica		
		4) 160	DN 100	4) 1.4539	3) special		
		5) higher	greater	5) 2.4605			
				6) special			

1) Cover flange according to quotation / order confirmation

2) Based on DIN 7080



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

EXAMPLE

The product code 11-322-4-100-1-1-7-0 corresponds to the standard version:

ACI type 322

DN 100

PN 160

Base flange made of 1.4571

Cover flange made of 1.4571

Borosilicate glass according to DIN 7080

Gasket graphite

STRUCTURE

1. Cover flange
2. Glass cushion
3. Sight glass
4. Gasket
5. Base flange
6. Screws



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.



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QUICK OVERVIEW



max. 160 barg¹



heat resistant up to 300
°C



for liquid media



for gaseous media



Nominal diameters
DN 40 - 100



Custom made designs
possible



Accessories available

1) Higher pressures on request

OPERATING CONDITIONS

Operating conditions depend on the choice of glass and seals:

		Sight glass		Gasket	
		Borosilicate glass DIN 7080 or similar	Borosilicate glass DIN 7080 or similar + Mica protection disc	Graphite > 300 °C	
PRESSURE	TEMPERATURE	up to 280 °C	✓	✓	✓
	up to 300 °C	✗	✓	✓	✓
	40 to 160 barg	✓	✓	✓	✓



suitable



unsuitable



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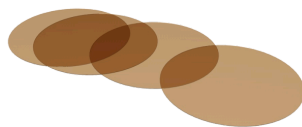
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OPTIONAL ACCESSORIES



Double glazing



Round mica discs



Double glazing with heating cartridge

> 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)



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