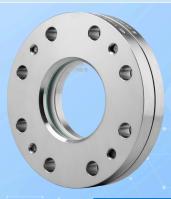




# Circular sight glass fitting type 321A Class 150 lbs

for ANSI/ASME flange mounting similar to DIN 28121 **Type 321A** 







Execution similar to DIN 28121

## **USAGE**

Round sight glass fittings serve to observe and illuminate the interior of closed containers (boilers, tanks, silos, etc.). Sight glasses of type 321A are round sight glass fittings that are compatible with ANSI flanges Class 150 lbs, completed with a sight glass plate inserted between the seals and tightly screwed. The sealing is done through a flexible seal, where the force shunt ensures the necessary compression.

Operating Condition		
Temperature: (depending on glass and gasket)	≤ 150 °C	Soda-lime glass DIN 8902 or similar
	≤ 200 °C¹	Borosilicate glass DIN 7080 or similar
Pressure:	≤ 20 barg	

1) Limited by gasket

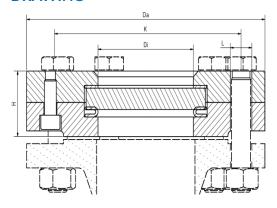
Materials				
Base flange:	1.4571; 1.4404; 1.4541; 1.4306			
Glass: Borosilicate glass (DIN 7080 or similar) Soda-lime glass (DIN 8902 or similar)				
Gasket <sup>2</sup> : PTFE encased corrugated ring gasket				
Screws:	Screws: A4-70			
Special materials on request				

2) See "INFO Gaskets"

# **INSTALLATION NOTE**

Seals suitable for the sealing surfaces should be used. The screw material should be equivalent to or of higher quality than the sight glass flanges. In principle, screws that meet the applicable standards should be used. Whenever possible, the screw thread as well as the screw head should be lubricated with screw lubrication.

## **DRAWING**



NPS	2"	3"	4"	5"	6"	8"	
Di [mm]	65	80	100	125	125	150	
H [mm]	41	50	59	66	66	66	
Da [mm]							
L [mm]	According to ASME B 16.5						
K [mm]							
Weight [kg]	3.8	8	13.5	17.4	23	36.7	

#### **EXECUTION**

Similar to DIN 28121 but for Flange connection according to ANSI / ASME





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#### **PRODUCT CODE**

Example for Explaining the Code Composition

11 - 321A - 1 - 4 - 1 - 1 - 1 - 0

GROUP	TYPE	CLASS1	NPS	BASE FLANGE	GLASS	GASKET	VARIANT
11	321A	1) 150	1) 2"	1) 1.4571	1) Borosilicate glass according to DIN 7080 or	1) PTFE	0) Standard
			2) 3"	2) 1.4541	similar		
			3) 4"	3) 1.4404	2) Soda-lime glass according to DIN 8902 or		
			4) 5"	10) Special	4) Borosilicate glass² + PTFE scraper SGW		
			5) 6"		5) Borosilicate glass² + silicone scraper SGW		
			6) 8"		6) Soda-lime glass³ + PTFE scraper SGW		
					7) Soda-lime glass³ + silicone scraper SGW		

1) Class only related to the bolt circle. Max pressure 20 barg! For higher working pressures see high-pressure variant type 322A 2) Similar to DIN 7080

3) Similar to DIN 8902



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

# **EXAMPLE**

The product code 11-321A-1-4-1-1-0 corresponds to the standard design:

ACI Type 321A NPS 5" Class 150 lbs

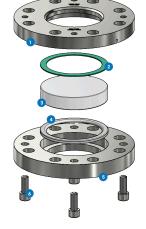
Base flange made of 1.4571 Cover flange made of 1.4571

Borosilicate glass acc. to DIN 7080

PTFE coated encased corrugated ring gasket

# **STRUCTURE**

- · Cover flange
- Glass cushion
- · Sight glass
- PTFE coated encased corrugated ring gasket
- Base flange
- Screws





For aggressive media, FEP or Halar® coated sight glass plates can be used. When steam is present, mica discs should be used to protect the glasses.





# Circular sight glass fitting type 321A Class 150 lbs for ANSI/ASME flange mounting similar to DIN 28121

**Type 321A** 

# **QUICK OVERVIEW**



max. 20 barg



heat-resistant up to 200



for liquid media



for gaseous media



Nominal sizes 2" - 8"



Custom made designs possible



Accessories available

# **OPERATING CONDITIONS**

Operating conditions depend on the choice of glass and gaskets:

		SIGHT GLASS		GASKETS	
		Sodium-lime glass DIN 8902 or similar	Borosilicate glass DIN 7080 or similar	<b>PTFE</b> max. 200 °C	
PRESSURE TEMPERATURE	up to 150 ℃	<b>②</b>	<b>②</b>	<b>⊘</b>	
	up to 200°C	⊗	<b>②</b>	<b>⊘</b>	
	up to 20 barg	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	









# **Circular sight glass** fitting type 321A Class 150 lbs for ANSI/ASME flange

mounting similar to DIN 28121

# **OPTIONAL ACCESSORIES**



## Spraying device SV2

For intermediate flange mounting



**LED** lights

for Ex and non-Ex areas



## Round mica discs

up to 320 °C with Borosilicate glass **DIN 7080** 



## FEP protective screen / coating

> for high pH values



Sight glass wiper

with PTFE, silicone, EPDM or FKM wipers

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