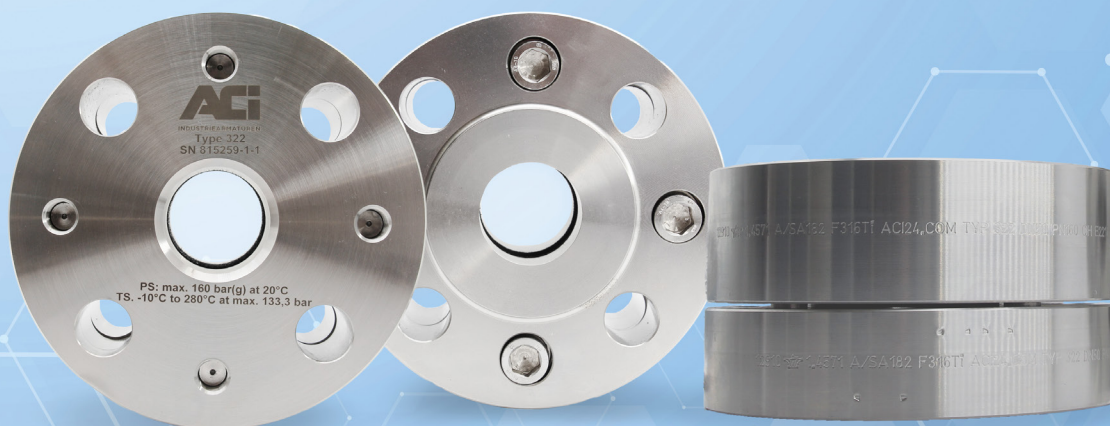




Similar to DIN 28121 with design appraisal by LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH).

USE:

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

Our type 322 has a design appraisal by LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) in the nominal sizes DN 40, DN 50, DN 80 and DN 100.

OPERATING CONDITIONS

Temperature: (depending on glass and gasket)	≤ 280°C	Borosilicate glass (DIN 7080 or similar)
	≤ 300°C ¹	Mica discs
Pressure:	≤ 40 bar(g) up to 160 ¹ bar(g)	

1) Higher pressure on request

MATERIALS

Base flange:	1.4571; 1.4541; 1.4404; 1.4539; 2.4605
Glass:	Borosilicate glass (DIN 7080 or similar)
Gasket:	Graphite
Screws:	A4-70
Special materials on request	



The design appraisal by LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) does not replace the final acceptance of the entire plant!

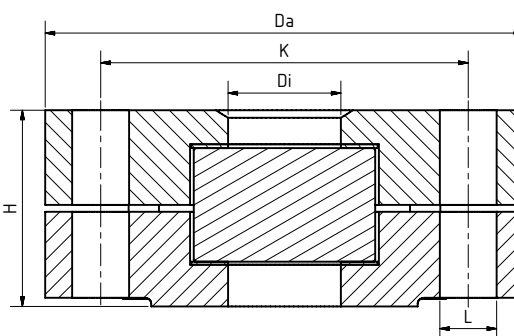
INSTALLATION INSTRUCTIONS:

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 provided with screw lubrication.



Design appraisal in nominal sizes DN 40 to DN 100 and nominal pressure ratings PN 40 to PN 160.

DRAWING:



DN	40 ²	50 ²	80 ²	100 ²
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]				

2) With LRQA Deutschland GmbH (prev. Lloyd's Register Deutschland GmbH) design appraisal

PRODUCT CODE:

Example to explain the code composition

11 - 322 - 4 - 100 - 1 - 1 - 7 - 0								
GROUP	TYPE	PN	NOMINAL SIZE	BASE FLANGE ²	GLASS	GASKET	VARIANTE	
11	322	1) 40	DN 40	1) 1.4571	1) Borosilicate glass according to DIN 7080 or similar	7) Graphite	0) Standard	
		2) 63	DN 50	2) 1.4541				
		3) 100	DN 80	3) 1.4404	2) Borosilicate glass ^{1 3} mica protected			
		4) 160	DN 100	4) 1.4539	3) Special ¹			
		5) higher ¹	larger ¹	5) 2.4605				
				6) Special				

1) Without LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) design appraisal

2) Cover flange according to offer/order confirmation

3) Similar to DIN 7080



Unless otherwise stated, the highlighted factory standard is supplied.

EXAMPLE:

11-322-4-100-1-1-7-0 equivalent to:

ACI Type 322

PN 160

DN 100

Base flange made of 1.4571

Cover flange made of 1.4571

Borosilicate glass similar to DIN 7080

Gasket graphite

Standard version

- other equipments optional

CONSTRUCTION:

Cover flange

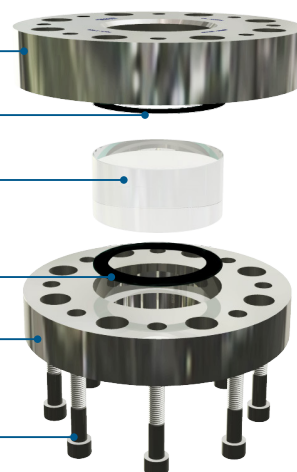
Gasket (on the atmosphere side)

Sight glass

Gasket (on the media side)

Base flange

Screws



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

QUICK OVERVIEW:



PN40-PN160
≤ 40 up to 160¹ bar(g)



heat-resistant up to
300 °C



for liquid
media



for gaseous
media



Nominal size
DN 40 - 100



Customized products
possible



Additional equipment
available

1) Higher pressure on request

OPERATING CONDITIONS:

Operating conditions depend on the
choice of glass and gaskets:

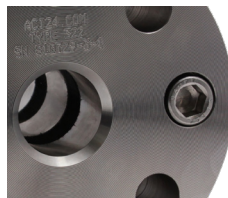
		SIGHT GLASS		GASKETS
		Borosilicate glass (DIN 7080 or similar)	Borosilicate glass (DIN 7080 or similar) +mica discs	Graphite > 400 °C
TEMPERATURE	up to 280 °C	✓	✓	✓
	up to 300 °C	✗	✓	✓
PRESSURE	40 up to 160 bar (g)	✓	✓	✓

✓ suitable ✗ unsuitable

OPTIONAL EQUIPMENT:



Double glazing with heating element¹



Double glazing¹



LED light

> for Ex and non-Ex areas



Mica discs¹

> up to 300°C with borosilicate glass
DIN 7080

1) Without LRQA Deutschland GmbH (formerly Lloyd's Register Deutschland GmbH) design appraisal

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 Service category, subcategory Tools)



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