



# Round sight glass fitting PN 40 up to PN 160

Flange mounting similar to DIN 28121

## Type 322



### APPLICATION:

Observation and illumination of the interior of closed vessels (boilers, tanks, silos, etc.). Type 322 sight glass sockets are suitable for mounting on flanges according to DIN EN 1092-1. A graphite flat gasket serves as a seal. The sight glasses are supplied pre-assembled and ready for installation. Available with [Lloyd's design appraisal](#) in sizes DN40, DN50, DN80, DN100.

### INSTALLATION NOTE:

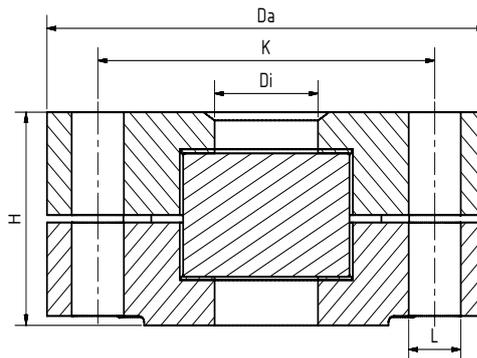
Gaskets suitable for the sealing surfaces should be used. The screw material should be equivalent to or higher than those of the sight glass body. Always use screws that match the hole pattern. If possible, the screw thread and the screw head should be lubricated.

Similar to DIN 28121 with [Lloyd's design appraisal](#) ( $\Delta P \leq 160$  bar)



### Operating conditions:

Temperature: (depending on glass and gasket)	280 °C 320 °C Mica protection
Pressure:	$\leq 40$ bis $160^2$ Bar
<sup>2</sup> higher pressures on request	



### Materials:

Flange:	1.4571, 1.4539, 2.4605
Glass:	Borosilicate glass DIN 7080
Gasket:	Graphite
Screws:	A4-70
Special materials on request	

DN	40 <sup>1</sup>	50 <sup>1</sup>	80 <sup>1</sup>	100 <sup>1</sup>
Di	40	50	80	100
H (PN40)	82	82	82	102
H (PN63)	82	82	82	102
H (PN100)	82	102	102	102
H (PN160)	92	102	102	122
Da	According to DIN EN 1092-1			
L				
K				
<sup>1</sup> with Lloyd's design appraisal			<sup>3</sup> Other sizes on request	

### IMPORTANT:

The design appraisal by Lloyd's Register does not replace the final approval of the entire system!



# Round sight glass fitting PN 40 bis PN 160

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### PRODUCTCODE:

Group	TYPE	PN	DN	Flange	Glass	Gasket	Variant
11	322	1: 40 2: 63 3: 100 4: 160 5: higher <sup>3</sup>	40 50 80 100 larger <sup>3</sup>	1: 1.4571 2: 1.4541 3: 1.4404 4: 1.4539 5: 2.4605 6: C-Steel 7: special	1: Borosilicate glass similar (Boro) DIN 7080 2: Boro Mica protection 3: special <sup>3</sup>	7: Graphite 8: special <sup>3</sup>	Assigned by ACI if required

**INFO:** Unless otherwise stated, the factory standard highlighted is supplied.

<sup>3</sup> without Lloyd's design appraisal

### SPECIAL DESIGNS/OPTIONS:

- a) Double glazing<sup>3</sup>
- b) Double glazing with heating element<sup>3</sup>
- c) LED or halogen lamps, ATEX-certified, EX
- d) Additional options on request

### EXAMPLE:

**11-322-4-100-1-1-7-0** equals the product code:

ACI Type 322  
PN160  
DN100  
flanges 1.4571  
borosilicate glass  
gasket graphite  
standard version

### 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 category Service, Tools)



### RECOMMENDATION:

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

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Technical changes and errors reserved!