INDUSTRIEARMATUREN

Round sight glass fitting type 322 PN 40/160

For flange mounting similar to DIN 28121

Type 322

EDELSTAHL Rostfrei INOX STAINLESS STEEL

USAGE

Vessel sight glasses type 322 are suitable for mounting on existing support flanges in accordance with DIN EN 1092-1. The sight glasses are factory pre-assembled and delivered ready for installation.

Operating conditions		
Temperature: (depending on glass and gasket)	≤ 280 °C	Borosilicate glass (DIN 7080 or similar)
	≤ 300 °C	Mica-protected
Pressure:	≤ 40 barg up to 160[1] barg	

1) Higher pressures on request

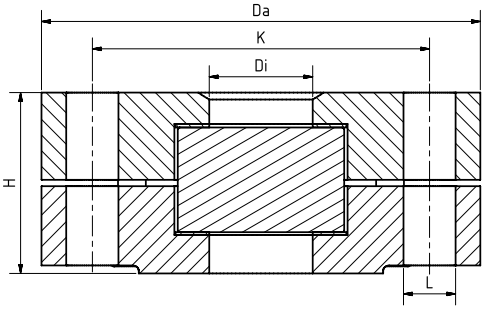
Materials	
Base flange:	1.4571, 1.4404, 1.4541, 1.4539, 1.4462[1], 2.4602[1]
Glass:	Borosilicate glass (DIN 7080 o.ä.)
Gasket:	Graphite
Screws:	A2-70 / A4-70
Special materials on request	

1) Acceptance required according to EN 10204 - 3.2

INSTALLATION NOTE

Appropriate gaskets for the sealing surfaces should be used. The screw material should be equivalent to or of a higher grade than the sight glass flanges. As a rule, use bolts that match the bolt-hole pattern! Where 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 - 000

GROUP	TYPE	PN	NOMINAL SIZE	BASE FLANGE[1]	GLASS	GASKET	VARIANT
11	322	1) 40 2) 63 3) 100 4) 160 5) higher	1) DN 40 2) DN 50 3) DN 80 4) DN 100 5) larger	1) 1.4571 2) 1.4541 3) 1.4404 4) 1.4539 5) 2.4605 6) Special	1) Borosilicate glass in accordance with DIN 7080 2) Borosilicate glass[2] mica-protected 3) Special	7) Graphite	000) Standard

1) Cover flange according to quotation / order confirmation
2) In accordance with DIN 7080

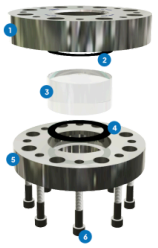
Unless otherwise specified, the highlighted factory standard will be delivered.

EXAMPLE

The product code 11-322-4-100-1-1-7-000 corresponds to the standard configuration:
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 made of graphite

STRUCTURE

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



For aggressive media, FEP- or Halar®-coated sight glass plates can be used. For steam, Mica discs should be used to protect the glass.

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QUICK OVERVIEW

- max. 160 barg[1]
- heat-resistant up to 300 °C
- for liquid media
- for gaseous media
- Nominal sizes DN 40 - 100
- Custom-made designs available
- Accessories available

1) Higher pressures on request

OPERATING CONDITIONS

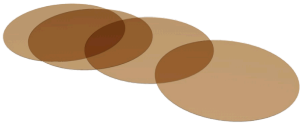
Operating conditions depend on the choice of the glass and the gaskets:

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

✓ suitable ✗ unsuitable

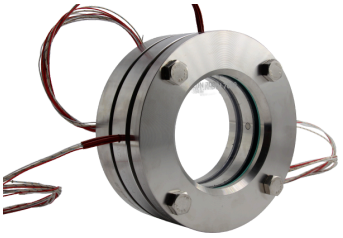
OPTIONAL ACCESSORIES

Double glazing



Round mica discs

> up to 320 °C with Borosilicate glass DIN 7080



Double glazing with heating cartridge

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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