

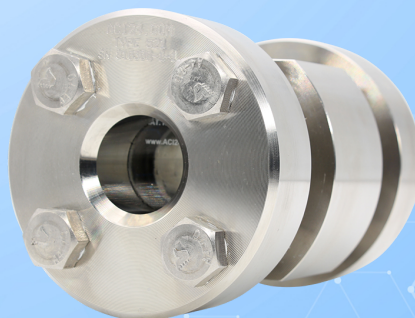


ACI
INDUSTRIEARMATUREN

High-pressure sight glass type 521 PN 63/400

Flow sight glass with welding
ends

Type 521



With welding connections

USAGE

High-pressure sight glasses of type 521 serve to observe the level and flow in pipelines.

They enable reliable monitoring of the function and performance of individual devices as well as complete systems. The high-pressure sight glasses of type 521 are designed for welding into existing pipelines.

Operating conditions:

Temperature:	≤ 280 °C Borosilicate glass DIN 7080
(depending on glass and gasket)	≤ 300 °C Borosilicate glass DIN 7080 with mica protection disc
Pressure:	≤ 63 barg to 400 barg

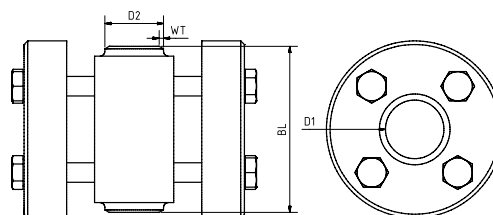
Materials:

Body:	1.4571
Glass:	Borosilicate glass DIN 7080 Borosilicate glass DIN 7080 + mica protection discs
Gaskets:	Graphite / Stainless steel
Screws:	A2-70 / A4-70
Special materials upon request	

INSTALLATION NOTE

When welding the fitting, it is crucial to ensure that no uncontrolled temperature entry occurs in sensitive components. In particular, the flow sight glass plates must be protected from thermal stress, mechanical damage, as well as from weld beads and spatter. Appropriate protective measures such as thermal protection, coverings, or splash protection devices must be implemented accordingly.

DRAWING



DN	25	40	50	65	80	100	125	150	200
(BL) Total length	on request or special size								
(WT) Wall thickness	suitable for the nominal size of the pipeline								
(D1) Clear view	depending on pressure level								
Special sizes and other standards on request									

SPECIAL VERSIONS/OPTIONS

a) Doppelverglasung



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PRODUCT CODE

Example for Explaining the Code Composition

11 - 521 - 5 - 3 - 1 - 1 - 7 - 000

GROUP	TYPE	DN	PN	BODY	GLASS	GASKET	VARIANT
11	521	3) 25	2) 63	1) 1.4571	1) Borosilicate glass DIN 7080	7) Graphite / Stainless steel	000) Standard
		4) 40	3) 100	8) Custom	4) Borosilicate glass DIN 7080 + Mica		
		5) 50	4) 160		5) META® glass		
		6) 65	5) 250				
		7) 80	6) 320				
		8) 100	7) 400				
		9) 125	8) Custom				
		10) 150					
		11) 200					
		12) Custom					



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

EXAMPLE

The product code **11-521-5-3-1-1-7-000**
corresponds to the standard version:

ACI type 521

DN 50 welding ends Ø 60.3 mm

PN 100

Body 1.4571

Cover flanges 1.4571

Borosilicate glass DIN 7080

Gasket graphite / stainless steel



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Type 521

QUICK OVERVIEW



max. 400 barg



heat resistant up to 300
°C



for liquid media



for gaseous media



Nominal sizes
DN 25 - 200



Custom made designs
possible



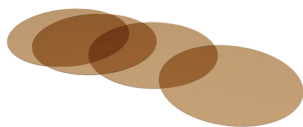
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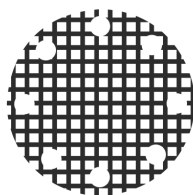
Type 521

OPTIONAL ACCESSORIES

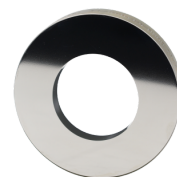


Round mica discs

- > up to 320 °C with Borosilicate glass
DIN 7080



Grid impact protection window



Metal fused safety sight glass

- > for safety applications



LED lights

- > for Ex and non-Ex areas



For aggressive media, steam, or operating pressures > 160 bar, mica discs are used for the protection of the glasses.

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