



ACI
INDUSTRIEARMATUREN

High-pressure flow sight glass type 520A Class 300/1500 lbs

Intermediate flange design
for flanges according to
ASME B 16.5

Type 520A



With flange connections according to DIN EN 1759-1
suitable for counter flanges according to ASME B 16.5

USAGE

High-pressure sight glasses of type 520A are used 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 520A are designed for installation between flanges according to ASME B 16.5.

Operating conditions:

Temperature:	≤ 280 °C Borosilicate glass DIN 7080
(dependent on glass and gasket)	≤ 300 °C Borosilicate glass DIN 7080 with mica protection disc
Pressure:	≤ 50 barg until 250 barg
Class:	300 lbs until 1500 lbs

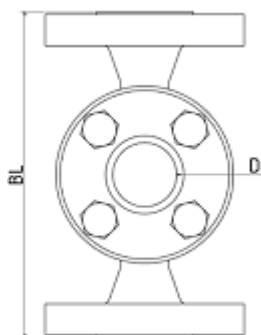
Materials:

Body:	1.4571
Glass:	Borosilicate glass DIN 7080 Borosilicate glass DIN 7080 + mica protection disc
Gasket:	Graphite / stainless steel
Screws:	A2-70 / A4-70
Special materials on request	

INSTALLATION NOTE

Gaskets must always be used that match the sealing surfaces. The screw material should be equal or superior compared to the flange material. If possible, both the screw thread and the screw head should be coated with a suitable lubricant.

DRAWING



NPS	1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
(BL) ² Length of the body	DIN EN 558-1 FTF 2								
Flange dimensions	Connection flanges according to DIN EN 1759-1 matching counter flanges according to ASME B 16.5								
(D1) ² free view	dependent on the pressure level								
2) All dimensions will be executed in accordance with the standard, if constructively possible. Otherwise, the information from the order confirmation and the customer drawing apply									

SPECIAL VERSIONS/OPTIONS

a) Doppelverglasung



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PRODUCT CODE

Example for Explaining the Code Composition

11 - 520A - 8 - 3 - 1 - 4 - 7 - 000

GROUP	TYPE	NPS	CLASS	BODY	GLASS	GASKET	VARIANT
11	520A	3) 1"	1) 300	1) 1.4571	1) Borosilicate glass DIN 7080	7) Graphite / Stainless Steel	000) Standard
		4) 1 1/2"	2) 400	8) Special	4) Borosilicate glass DIN 7080 + Mica		
		5) 2"	3) 600		5) META® glass		
		6) 2 1/2"	5) 900				
		7) 3"	6) 1500				
		8) 4"	8) Special				
		9) 5"					
		10) 6"					
		11) 8"					
		12) Special					



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

EXAMPLE

The product code **11-520A-8-3-1-4-7-000** corresponds to the standard version:

ACI type 520A

NPS 4"

Class 900 lbs

Body 1.4571

Cover flanges 1.4571

Borosilicate glass DIN 7080 with mica protection

Gasket Graphite / stainless steel



**High-pressure flow
sight glass type
520A Class 300/1500
lbs**

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**Type
520A**

QUICK OVERVIEW



max. 250 barg



heat resistant up to 300
°C



for liquid media



for gaseous media



Nominal sizes
1" - 8"



custom designs possible



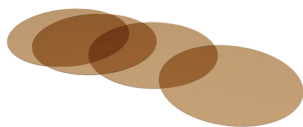
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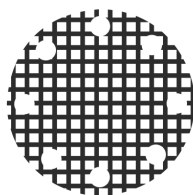
**Type
520A**

OPTIONAL ACCESSORIES

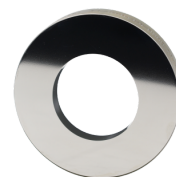


Round mica discs

- > 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 are mica discs used for protection of the glasses.

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