



With flange connections according to DIN EN 1092-1

## USAGE

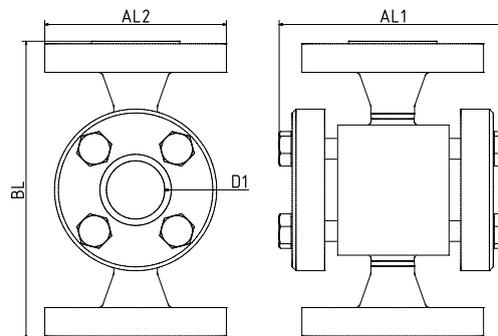
High-pressure sight glasses of type 520 are used to observe the flow in pipelines.

They enable reliable monitoring of the function and performance of individual devices as well as complete systems. The high-pressure sight glasses of type 520 are designed for installation between flanges according to DIN EN 1092-1.

## INSTALLATION NOTE

Seals should always be used that fit the sealing surfaces. The screw material should be equivalent or superior in comparison to the flange material. If possible, both the screw thread and the screw head should be provided with a suitable lubricant.

## DRAWING



### Operating conditions:

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

### Materials:

Body:	1.4571
Glass:	Borosilicate glass DIN 7080 Borosilicate glass DIN 7080 with mica protection discs
Gasket:	Graphite / Stainless steel
Screws:	A2-70 / A4-70
Special materials on request	

PN	DN	BL <sup>1</sup>	D1 <sup>1</sup>	AL1 <sup>1</sup>	AL2 <sup>1</sup>
63	25	230	45	175	140
	40	260	45	185	170
	50	300	65	211	185
	65	340	8	239	220
	80	380	80	264	250
	100	430	125	324	300
	125	500	125	354	350
	150	550	160	435	400
	200	650	160	505	480
100	25	230	45	175	140
	40	260	45	190	170
	50	300	65	211	195
	65	340	65	239	220
	80	380	80	274	250
	100	430	125	354	290
	125	500	125	397	350
160	25	230	45	175	140
	40	260	45	195	170
	50	300	65	241	195
	65	340	65	296	220
	80	380	80	294	250
250	25	230	48	196	150
	40	290	48	221	185
	50	300	65	255	200
	65	340	65	279	230
	80	380	80	334	225
320	25	230	20	186	160
	40	260	20	201	195
	50	300	30	230	210
	65	340	30	254	225
	80	380	48	289	275
400	25	280	20	210	180
	40	320	20	220	220
	50	370	30	240	235

1) All dimensions are executed according to standard, as far as constructively possible. Otherwise, the specifications in the order confirmation and customer drawing apply.

## PRODUCT CODE

Example for Explaining the Code Composition

**11 - 520 - 5 - 3 - 1 - 1 - 7 - 000**

GROUP	TYPE	DN	PN	BODY	GLASS	GASKET	VARIANT
11	520	3) 25	2) 63	1) 1.4571	1) Borosilicate glass DIN 7080	7) Graphite / Stainless steel	000) Standard
		4) 40	3) 100	8) Special	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					
		10) 150					
		11) 200					



Unless otherwise specified, the highlighted factory standard is delivered.

## EXAMPLE

The product code **11-520-5-3-1-1-7-000**

corresponds to the standard version:

ACI type 520

DN 50

PN 100

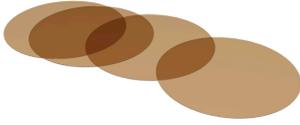
Body 1.4571

Cover flanges 1.4571

Borosilicate glass DIN 7080

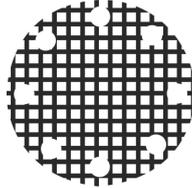
Seal Graphite / stainless steel

**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 barg will use mica discs for the protection of glasses.

**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](http://www.aci24.com), under Service, sub-item Tools)

