



4-way flow sight glass with 2 viewing openings and flange connections according to DIN EN 1092-1

USAGE

Flow sight glasses with 4-way connections and 2 viewports of type 595 serve to observe the level and flow in pipelines. A clear advantage of the 4-way design with two viewports is that several inlet and outlet pipes can be included in the process monitoring. This allows the flow of the medium to be observed from different directions and the process to be comprehensively controlled. The flow sight glasses of type 595 are designed for installation between flanges according to DIN EN 1092-1.

Operating conditions:

Temperature: (dependent on glass and gasket)	150 °C Soda-lime glass DIN 8902 280 °C Borosilicate glass DIN 7080 300 °C or 320 °C ¹ Borosilicate glass DIN 7080 with mica protection discs
Pressure:	≤ 16 / 40 / 63 / 100 / 160 / 250 / 320 / 400 barg

1) Only possible if MAXOS® safety sight glasses according to DIN 7080 are used

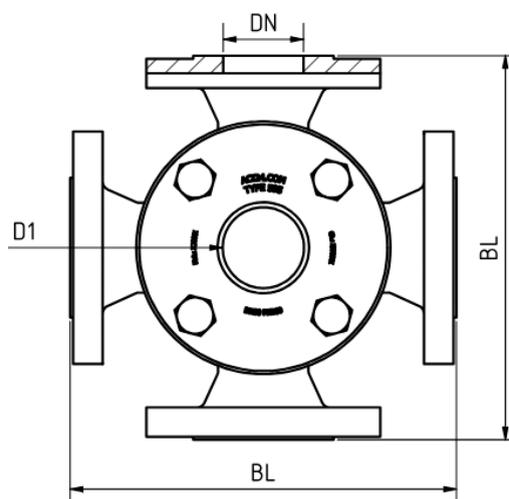
Materials:

Connection flange, cover flange and body:	1.4571
Glass:	Borosilicate glass DIN 7080 Soda-lime glass DIN 8902
Gasket:	Graphite; C4400; PTFE; FKM; NBR; Silicone; EPDM
Screws:	A2-70 / A4-70

INSTALLATION NOTE

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

DRAWING



DN	50	65	80	100	125	150	200
Total length (BL) ²	DIN EN 558-1 FTF 2						
Flange dimensions	DIN EN 1092-1						
Free view (D1) ²	100	150	175	175	175	175	240

2) All dimensions are executed according to the standard, if constructively possible. Otherwise, the information from the order confirmation and the customer drawing applies. Dimensions correspond to the nominal pressure level PN 16, other pressure levels may differ

PRODUCT CODE

Example for Explaining the Code Composition

11 - 595 - 8 - 2 - 1 - 1 - 4 - 000

GROUP	TYPE	DN	PN	BODY	GLASS	GASKET	VARIANT
11	595	5) 50 6) 65 7) 80 8) 100 9) 125 10) 150 11) 200 12) Special	1) 16 2) 40 3) 63 4) 100 5) 160 6) 250 7) 320 8) 400	1) 1.4571 8) Special	1) Borosilicate glass DIN 7080 2) Soda-lime glass DIN 8902 4) Borosilicate glass DIN 7080 + Mica 5) META® glass	1) PTFE 2) FKM 3) NBR 4) C4400 5) Silicone 6) EPDM 7) Graphite 8) Special	000) Standard



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

EXAMPLE

The product code **11-595-8-2-1-1-4-000**

corresponds to the standard version:

ACI type 595

DN 100

PN 40

Body 1.4571

Cover flanges 1.4571

Connection flanges 1.4571

Borosilicate glass DIN 7080

Gasket KlingerSil® C4400

QUICK OVERVIEW



max. 400 barg



heat resistant up to 320
°C



for liquid media



for gaseous media



Nominal sizes
DN 50 - 200



Custom manufacturing
possible



> 50 sealing materials



Accessories available

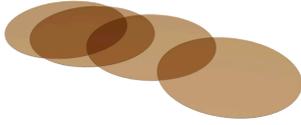
OPERATING CONDITIONS

Operating conditions depend on the choice of glass and seals:

		SIGHT GLASS				GASKETS				
		Soda-lime glass DIN 8902	Borosilicate glass DIN 7080	PTFE max. 200 °C	FKM max. 200 °C	NBR max. 80 °C	C4400 max. 175 °C	Silicone max. 180 °C	EPDM max. 130 °C	Graphite > 400 °C
TEMPERATURE	up to 80 °C	✓	✓	✓	✓	✓	✓	✓	✓	✓
	up to 130 °C	✓	✓	✓	✓	✗	✓	✓	✓	✓
	up to 150 °C	✓	✓	✓	✓	✗	✓	✓	✗	✓
	up to 175 °C	✗	✓	✓	✓	✗	✓	✓	✗	✓
	up to 200 °C	✗	✓	✓	✓	✗	✗	✗	✗	✓
	up to 280 °C	✗	✓	✗	✗	✗	✗	✗	✗	✓
	> 280 °C	Upon request								
PRESSURE	up to 16 barg	✓	✓	✓	✓	✓	✓	✓	✓	✓
	up to 40 barg	✓	✓	✓	✗	✗	✓	✗	✗	✓
	up to 63 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓
	up to 100 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓
	up to 160 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓
	up to 250 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓
	up to 320 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓
	up to 400 barg	✗	✓	✗	✗	✗	✗	✗	✗	✓

✓ suitable ✗ unsuitable

OPTIONAL ACCESSORIES



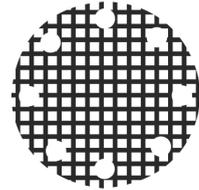
Round mica discs

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



Sight glass wiper

- > with PTFE, silicone, EPDM or FKM
wipers



Grid impact protection window



Metal fused safety sight glass

- > for safety applications



LED lights

- > for Ex and non-Ex areas



FEP protective screen / coating

- > for high pH values



For aggressive media or steam, mica discs should be used to protect the 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, under Service, sub-item Tools)



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