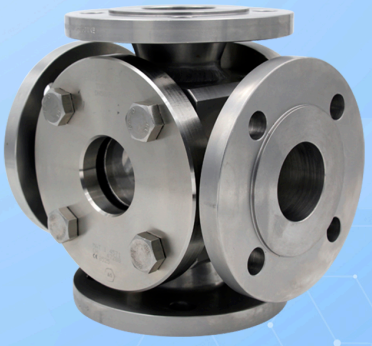
Flow sight glass type 595 PN 16/400

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

Type 595



EDELSTAHL Rostfrei INOX STAINLESS STEEL

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

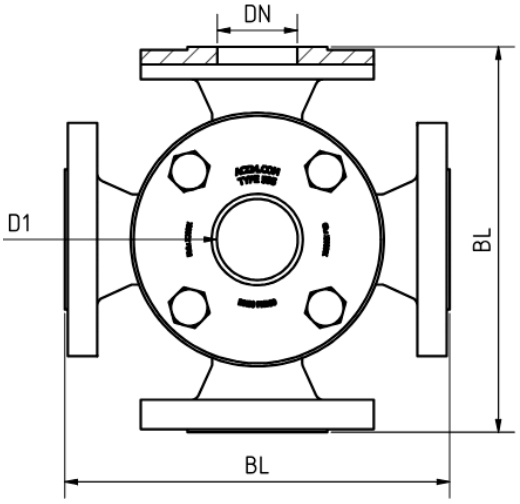
1) Only possible if MAXOS® safety sight glasses according to DIN 7080 are used

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

Flow sight glass type 595 PN 16/400

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

Type 595

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

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

Flow sight glass type 595 PN 16/400

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

Type 595

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	✗	✓	✗	✗	✗	✗	✗	✗	✓

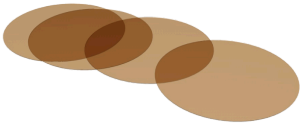
✓ suitable ✗ unsuitable

Flow sight glass type 595 PN 16/400

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

Type 595

OPTIONAL ACCESSORIES

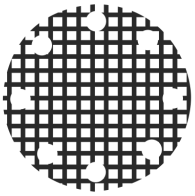


Round mica discs

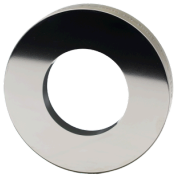
> up to 320 °C with Borosilicate glass DIN 7080

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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