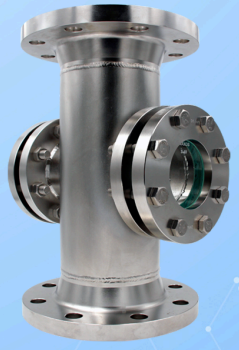
Flow sight glass type 530A nominal size

Flow sight glass with flange connections suitable for ASME B 16.5

Type 530A



With flange connections to DIN EN 1759-1 fit on mating flanges to ASME B 16.5

USAGE

Flow sight glasses of type 530A are used to observe the level and flow in pipelines.
They allow for reliable monitoring of the function and performance of individual devices as well as complete systems. The flow sight glasses of type 530A are designed for installation between flanges according to ASME B 16.5.

Pipelines that need to be completely drained have a residual liquid in the sight glass area with standard sight glasses. With this sight glass assembly, there is virtually no residual liquid left in the body when installed horizontally.

Operating conditions:	
Temperature: (depending on glass and gasket)	≤ 280 °C Borosilicate glass DIN 7080 ≤ 300 °C Borosilicate glass DIN 7080 with mica protection disc
Pressure:	≤ 20 barg to 50 barg[1]
Class:	150 lbs to 300 lbs

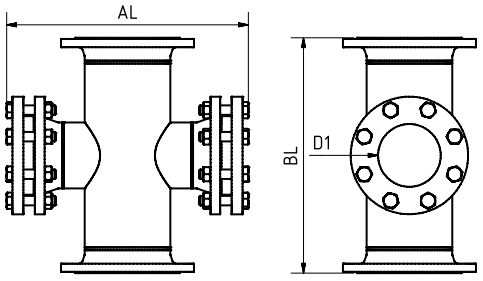
1) Higher see Type 520A

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
Special materials upon request	

INSTALLATION NOTE

Seals must always be used that fit the sealing surfaces. The screw material should be equal or superior compared to the flange material. Whenever possible, both the screw thread and the bolt head should be provided with a suitable lubricant.

DRAWING



NPS	1“	1 1/2“	2“	3“	4“	5“	6“	8“	10“	12“
BL[2]	200	230	310	350	400	480	600	730	850	980
D1[2]	35	45	55	84	107	132	160	160	160	160
AL[2]	232	258	336	380	420	464	558	706	821	955

2) All dimensions will be executed according to standard – if constructively possible. Otherwise, the information from the order confirmation and customer drawing applies
Dimensions correspond to Class 150 lbs, other pressure levels may differ
Connection flanges according to DIN EN 1759-1 matching to counter flanges according to ASME B 16.5

PRODUCT CODE

Example for Explaining the Code Composition

11 - 530A - 5 - 1 - 1 - 1 - 4 - 000

GROUP	TYPE	NPS	CLASS	BODY	GLASS	GASKET	VARIANT
11	530A	1) 1"	1) 150	1) 1.4571	1) Borosilicate glass DIN 7080	1) PTFE	000) Standard
		2) 1 1/2"	2) 300	4) Special	2) Soda-lime glass DIN 8902	2) FKM	
		3) 2"	3) Special		4) Borosilicate glass DIN 7080 + Mica	3) NBR	
		4) 3"			6) META® glass	4) C4400	
		5) 4"				5) Silicone	
		6) 5"				6) EPDM	
		7) 6"				7) Graphite	
		8) 8"				8) Special	
		9) 10"					
		10) 12"					
		11) Special					

Unless otherwise specified, the highlighted factory standard is delivered.

EXAMPLE

The product code 11-530A-5-1-1-1-4-000 corresponds to the standard version:
ACI type 530A
NPS 4"
Class 150 lbs
Body 1.4571
Cover flanges 1.4571
Connection flanges 1.4571
Borosilicate glass DIN 7080
Gasket KlingerSil® C4400

Flow sight glass type 530A nominal size

Flow sight glass with flange connections suitable for ASME B 16.5

Type 530A

QUICK OVERVIEW

- max. 50 barg
- heat resistant up to 320 °C
- for liquid media
- for gaseous media
- Nominal sizes 1" - 12"
- Special designs possible
- > 50 sealing materials
- Accessories available

OPERATING CONDITIONS

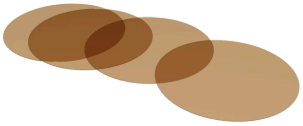
Operating conditions depend on the choice of glass and gaskets:

		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	On request		On request						
PRESSURE	up to 20 barg	✓	✓	✓	✗	✗	✓	✗	✗	✓
	up to 50 barg	✓	✓	✓	✗	✗	✓	✗	✗	✓

✓ suitable ✗ unsuitable

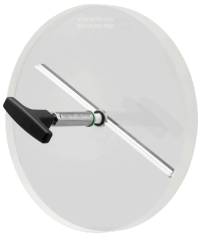
OPTIONAL ACCESSORIES

Double glazing



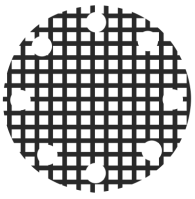
Round mica discs

> up to 320 °C with Borosilicate glass DIN 7080

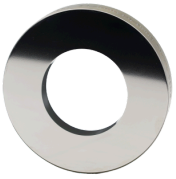


Sight glass wiper

> 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, FEP or Halar® coated sight glass plates can be used. In steam, mica discs should be used to protect the glasses.

ACI Industriearmaturen GmbH

info@aci24.com
www.aci24.com
Königskamp 19 · 52428 Jülich · Germany
+49 (0) 2461 91634 00
+49 (0) 2461 91634 44

Continental Trade Sp. z o.o.

biuro@continentaltrade.com.pl
www.continentaltrade.com.pl
Stara 23 · 05-270 Nadma · Poland
+48 22 670 11 81
-