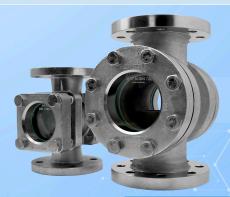




With flange connections according to DIN 1092-1

Type 550





With flange connections suitable for ASME B16.5 Class 150 or 300 lbs

USAGE

Ros

For the observation of filling and flow in pipelines. The sight glass enables reliable monitoring of the function and performance of individual devices as well as of entire systems. Type 550 flow sight glasses are suitable for mounting on flanges according to DIN EN 1092-1. The sight glasses are delivered pre-assembled and ready for installation.

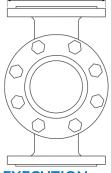
Operating conditions:	
Temperature: (depending on glass and gasket)	150°C Soda-lime glass DIN 8902 280°C Borosilicate glass DIN 7080 400°C Unhardened borosilicate glass
Pressure:	≤ 10 / 16 / 25 / 40 barg

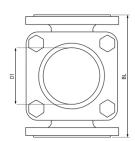
Materials:					
Flange/Body:	1.4408				
Glass:	Borosilicate glass DIN 7080 Soda-lime glass DIN 8902 Borosilicate glass untempered				
Gasket:	Graphite; C4400; PTFE; FKM; NBR; Silicone; EPDM;				
Screws:	A2-70 / A4-70				
Special materials on request					

INSTALLATION NOTE

Gaskets must be used that fit exactly to the sealing surfaces. The screw material should match or be of higher quality than that of the sight glass body. Screws must conform to the hole pattern of the flanges. Threads and screw heads should preferably be treated with lubricant. Tubular sight glasses should be mounted without tension – pipe forces, vibrations, and pressure shocks must not act on the fitting.

DRAWING





EXECUTION

DN 15 - 50 Rectangular cover flanges DN 65 - 200 Circular cover flanges





With flange connections according to DIN 1092-1

Type 550

DN	15	20	25	32	40	50	65	80	100	125 ¹	150 ¹	200 ¹
D (PN16)	95	105	115	140	150	165	185	200	220	250	285	340
D (PN25)	95	105	115	140	150	165	185	200	235	270	300	360
D (PN40)	95	105	115	140	150	165	185	200	235	270	300	375
BL	130	150	160	180	200	230	290	310	350	400	480	600
D1	32	32	48	48	65	80	80	100	125	150	175	175
1) According to DIN 11869												

SAFETY DOUBLE GLAZING

The flow sight glass is equipped with a safety double glazing. In case of damage or destruction of the inner glass plate, the metal ring of the Meta® sight glass prevents the medium from escaping. The additional outer pane takes over the function of the first glass plate in this case and also maintains full operating pressure. This allows the system – especially in the case of hazardous media – to be shut down in a controlled manner and the defective sight glass plate to be safely replaced.



VACUUM APPLICATION

In the vacuum variant (see type 550V), a high-quality seal made of novaflon® 500 is used. This material consists of 100% pure, multidirectionally expanded PTFE (polytetrafluoroethylene) and is characterized by excellent chemical resistance, mechanical stability, and outstanding sealing properties.

The sealing system is designed for a temperature range of -60°C to +200°C and meets the requirements according to TA Luft (Technical instructions for air quality control).

The suitability for vacuum applications up to 2 mbar absolute has been demonstrated by an independent, external testing laboratory. This provides the sealing solution with the highest safety and reliability even under extreme operating conditions.







With flange connections according to DIN 1092-1

Type 550

PRODUCT CODE

Example for Explaining the Code Composition

GROUP	TYPE	DN	PN	BODY	GLASS	GASKET	VARIANT
11	550	1) 15	1) 10	3) 1.4408	1) Borosilicate glass DIN 7080	1) PTFE	0) Standard Variant
		2) 20	2) 16	8) Special	2) Soda-Lime glass DIN 8902	2) FKM	1) Rotor PTFE (260°C)
		3) 25	3) 25		3) Quartz glass¹	3) NBR	5) Double glazing
		4) 32	4) 40		4) META® glass	4) C4400	G) Mica
		5) 40			8) Special	5) Silicone	H) 7080+Halar®
		6) 50				6) EPDM	F) 7080+FEP
		7) 65				7) Graphite	
		8) 80				8) Special	
		9) 100					
		10) 125					
		11) 150					
		12) 200					

INFO: Unless otherwise specified, the highlighted factory standard is delivered. 1) For pressure applications > 0.49 barg only possible up to DN 25.



Flow sight glass with flange connections suitable to ASME B16.5

EXAMPLE

The product code 11-550-6-4-3-1-7-0 corresponds to the standard version:

ACI Type 550

Nominal size DN 50

Nominal pressure PN 40

Body & cover flanges made of 1.4408

Borosilicate glass DIN 7080

Gaskets:

On the media side novaphit® MST-XP

On the atmosphere side KlingerSil®

C4400

Screws: A4-70





With flange connections according to DIN 1092-1

Type 550

QUICK OVERVIEW



max. 40 barg



-196°C to 400°C



for liquid media



for gaseous media



Nominal sizes DN 15 - 200



> 50 gasket materials



Accessories available



TÜV pre-tested

OPERATING CONDITIONS

Operating conditions depend on the choice of glass and gaskets:

			SIGHT GLASS		GASKETS					
		Soda-lime glass DIN 8902	Borosilicate glass DIN 7080	РТFE max. 200 °C	FKM max. 200 °C	NBR max. 80 °C	C4400 max. 175 °C	Silicone max. 180 °C	ЕРDМ max. 130 °C	Graphite > 400 °C
	up to 80°C	0	②	②	0	②	②	②	②	⊘
	up to 130 ℃	0	②	②	②	*	②	⊘	②	⊘
TEMPERATURE	up to 150 ℃	0	⊘	②	0	×	②	②	×	⊘
PERA	up to 175 °C	(X)	⊘	②	②	×	②	②	×	⊘
TEM	up to 200 ℃	(X)	②	②	②	×	×	*	×	⊘
	up to 280 °C	(X)	②	×	(X)	×	×	×	×	⊘
	> 280 °C		On request				On request			
	bis 10 barg	②	②	O	②	②	②	②	②	⊘
PRESSURE	bis 16 barg	②	②	②	②	②	②	②	0	②
PRES	bis 25 barg	⊘	⊘	②	(X)	*	②	*	*	⊘
	bis 40 barg	②	②	0	(X)	*	②	*	*	⊘









With flange connections according to DIN 1092-1

OPTIONAL ACCESSORIES



Round mica discs

up to 320 °C with Borosilicate glass **DIN 7080**



Metal fused safety sight glass

for safety applications



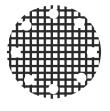
Sight glass wiper

with PTFE, silicone, EPDM or FKM wipers



LED lights

for Ex and non-Ex areas



Grid impact protection window



FEP protective screen / coating

> for high pH values

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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