

With flange connections according to ASME B16.5

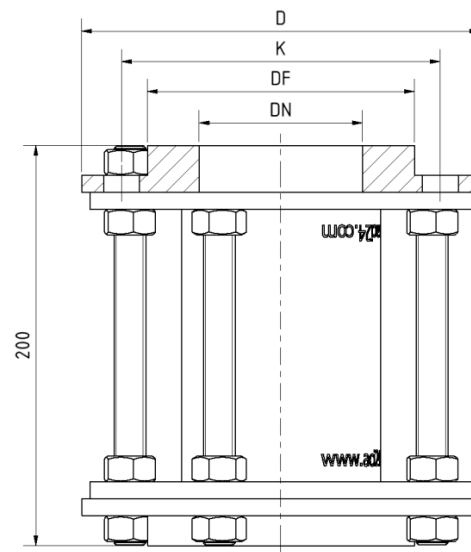
USAGE

Tubular sight glass is used for observing fillings and flow in pipelines. The sight glass enables reliable 360° monitoring of the function and performance of individual devices as well as entire systems. The tubular sight glass type 620 is executed with flanges on both sides according to DIN EN 1092-1 - PN 10/16 up to DN 150. Nominal sizes from DN 200 are executed according to DIN EN 1092-1 PN 10.

INSTALLATION NOTE

Seals must be used that fit exactly to the sealing surfaces. The screw material should correspond to that of the sight glass body or be of higher quality. Screws must match the hole pattern of the flanges. Threads and screw heads should be treated with lubricant whenever possible. Tubular sight glasses must be installed without stress - pipe forces, vibrations, and pressure shocks must not affect the fitting.

DRAWING



Operating condition	
Temperature: (depending on glass and gasket)	up to 300 °C ¹ with borosilicate glass 3.3
Pressure:	≤ 16 ² barg
1) Higher upon request 2) Higher see type 670 / 671	

Materials	
Flanges:	1.4571
Glass cylinder:	Borosilicate glass 3.3
Gasket ³ :	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite
Threaded rods and nuts:	A4-70
Special materials on request	

3) See "INFO Gaskets"

DN	15	20	25	32	40	50	65	80	100	125	150	200	250 ⁴	300 ⁴
K [mm]	65	75	85	100	110	125	145	160	180	210	240	295	350	410
DF [mm]	41	54	64	74	84	98	118	134	154	184	208	264	320	370
D [mm]	95	105	115	145	150	175	195	200	225	250	295	345	400	460
PS [barg]	16	16	16	16	16	16	10	10	10	8	7	5	4	4
Number of bores and diameter according to DIN EN 1092-1 - PN10/16 (from the nominal size DN 200 only PN 10)														
4) Special construction, only upon prior request. Other sizes, lengths, and flange standards available upon request														

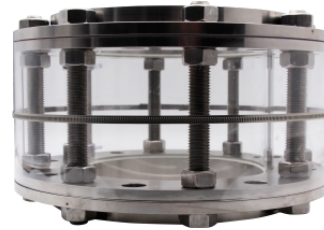
SPECIAL VERSIONS/OPTIONS

- a) Impact protection cover
- b) Nearly dead space-free execution with precision glass cylinder possible
- c) Additional running-in phase for special piping
- d) Additional options on request

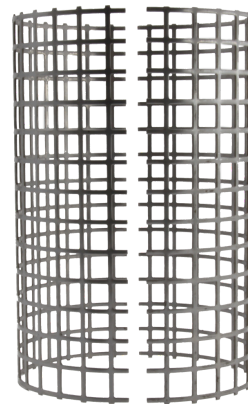
IMPACT PROTECTION COVER (OPTIONAL)

Optionally, the tubular sight glass type 620 can be equipped with an elastic impact protection cover for the protection of the glass tube. Alternatively, a robust impact protection made of stainless steel perforated sheet is also available.

Type 620 with impact protection cover made of plastic (PETg)



Type 620 with impact protection cover made of perforated metal sheet (VA)



PRODUCT CODE

Example for Explaining the Code Composition

11 - 620 - 100 - 2 - 4 - 0 - 000

GROUP	TYPE	NOMINAL SIZE	FLANGE	GASKET	IMPACT PROTECTION	TOTAL LENGTH
11	620	DN 15	1) P265GH	1) PTFE	0) without impact protection sleeve	000) Standard (200 mm)
		DN 20	2) 1.4571	2) FKM	1) with impact protection sleeve made of PETg (Tmax. 80 °C)	D00) DIN EN 558 Series 1
		DN 25	8) Special	3) NBR	2) with impact protection sleeve made of perforated sheet (Tmax. 300 °C)	
		DN 32		4) C4400		
		DN 40	5) Silicone			
		DN 50	6) EPDM			
		DN 65	7) Graphite			
		DN 80	8) Special			
		DN 100				
		DN 125				
		DN 150				
		DN 200 ⁵				
		DN 250 ⁵				
		DN 300 ⁵				

5) Flange connection according to DIN EN 1092-1 - PN 10



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

EXAMPLE

The product code **11-620-100-2-4-0-000** corresponds to the standard version:

ACI type 620

DN 100

PN 16

Flanges made of 1.4571

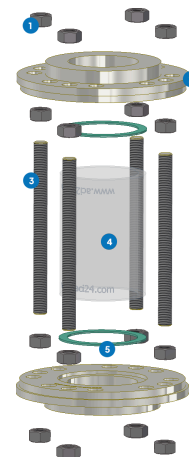
Gasket KlingerSil® C4400

without impact protection

Standard length 200 mm

STRUCTURE

1. Nuts
2. Flange
3. Threaded rod
4. Borosilicate glass cylinder
5. Gasket



QUICK OVERVIEW



max. 16 barg



heat-resistant up to 300 °C



for liquid media



for gaseous media



Nominal sizes DN 15 - 300



custom manufacturing possible



> 50 sealing materials



accessories available

OPERATING CONDITIONS

Operating conditions depend on the choice of glass and seals:

		Sight glass				Gaskets			
		Borosilicate glass 3.3	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 > 300 °C
TEMPERATURE	up to 80 °C	✓	✓	✓	✓	✓	✓	✓	✓
	up to 130 °C	✓	✓	✓	✗	✓	✓	✓	✓
	up to 175 °C	✓	✓	✓	✗	✓	✓	✗	✓
	up to 200 °C	✓	✓	✓	✗	✗	✗	✗	✓
	up to 300 °C	✓	✗	✗	✗	✗	✗	✗	✓
	>300 °C	on request	on request						
PRESSURE	up to 16 barg	✓	✓	✓	✓	✓	✓	✓	✓

✓ suitable ✗ unsuitable

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