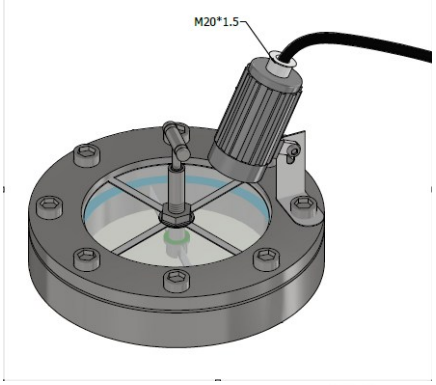
LEVEL MEASURING

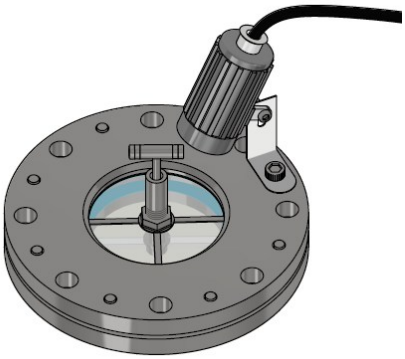
TANK SIGHT VIEW



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Introduction





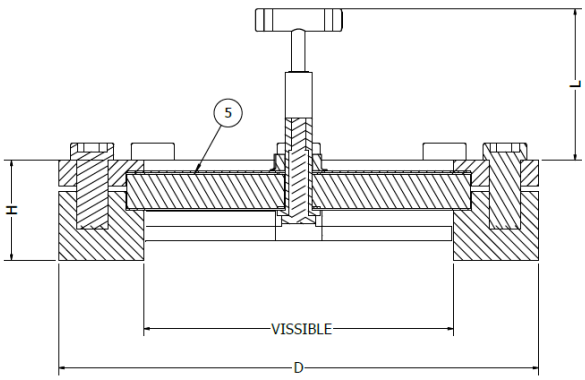
The ARAMAK Tank Sight View provides a direct optical path into tanks, reactors, silos, separators and process vessels. The circular assembly holds the glass disc between a process-side gasket and a cover-side cushion gasket. A manually operated wiper cleans the internal glass surface when deposits, dust, crystallization or product film reduce visibility.

The fitting is mechanically pre-tensioned as a unit. The structure and dimensions comply with the design standards set out in DIN 28121.

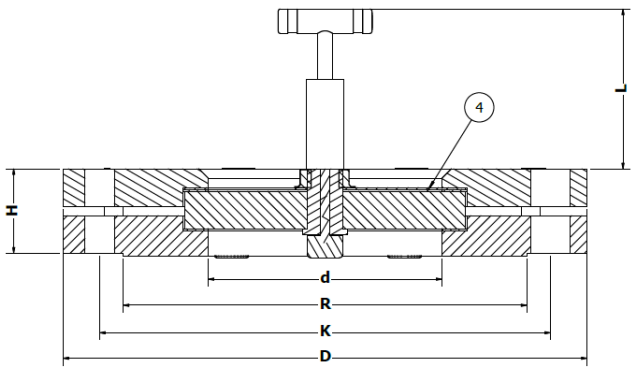
Applications

Weld-on sight glass fittings for the observation of the internals of

- Pressure vessels
- Mixers
- Separators
- Pipelines
- Product color, clarity and turbidity
- Foam, mixing and agitation condition
- Internal cleaning and residue check
- Powder or solids movement in silos



Welded (W)



Flanged (F)

Construction

Construction: Circular weld-on / Flanged ; DIN 28120 or project-specific

Nominal sizes: DN 50, 80, 100, 125, 150 and 200

Pressure rating: PN 10 / PN 16 depending on size and configuration; higher by engineered design

Vacuum service: Available when the complete assembly is verified for the duty

Glass: Borosilicate DIN 7080

Glass temperature: Up to 280°C borosilicate; up to 150°C soda-lime

Wiper temperature: Up to 200°C with PTFE blade; up to 180°C with silicone blade

Wiper pressure: Typically 2 to 6 barg (The maximum allowable pressure of a unit equipped with a mechanical wiper depends on the viewing diameter, wiper design, seals and glass configuration.)

Installation

The numbers in the following installation instructions refer to the drawing above. After having correctly welded the base flange (1) onto or into the vessel wall, the gasket (2), the sight glass disc (3), the gasket(4) and the cover flange (5) are mounted one after the other and then the nuts (6) are tightened, always working on diametrically opposite pairs. The above indicated tightening torque values have to be strictly respected. Additional information may be taken from the DIN specification 28120.

Specification

Materials:

Base flange: S.S. 316L, S.S. 304L, S.S. 321, PVC, PVDF material certificate 3.1B

Cover flange: S.S. 316L, S.S. 304L, S.S. 321, PVC, PVDF material certificate 3.1B

Gaskets: Silicon / NBR /EPDM (product side)

Glass disc: Borosilicate to DIN 7080, material certificate 2.2 (max. 280 °C)

Bolts or studs: To DIN 938/934 in A2-70

Wiper: PTFE, NBR

Illuminator: Aluminum Box , 24 VDC or 220 VAC, subject to the approved electrical design

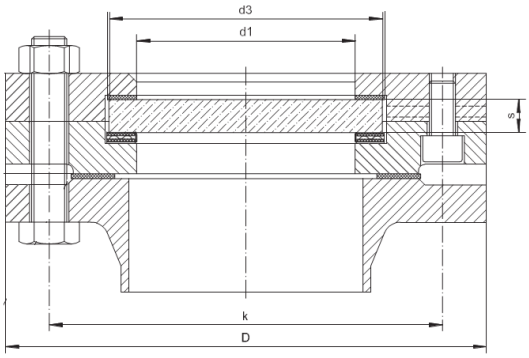
Pressure:

Max. product pressure: Max. 10 bar (1000 kPa)

Min. product pressure: Full vacuum

Temperature range: -10 °C to +140 °C

(EPDM), (higher temperatures up to 280 °C with gaskets of Klingersil)



Size		1	2	3	4	5	6	7
Nominal width	DN	40	50	80	100	125	150	200
Overpressure (bar)	PN	6/10	6/10	6/10	6/10	6/10	6/10	6/10
Clarity	d1	48	65	80	100	125	125	150
Schauglas plate	d3	63	80	100	125	150	150	175
	s	20/30	20/30	20/30	20/30	20/30	20/30	20/30
Flanges	D	150	165	200	220/235	250/270	285/300	340/360
	k	110	125	160	180/190	210/220	240/250	295/310
Fastening screw	Number	4	4	8	8	8	8	8/12

Ordering Information

Please check the order code in our website. (Click here).

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