



## Design and applications

The devices in the sight glass series are used for the visual display of liquid media. The sight glass consists of a sight glass tube of borosilicate glass, four spacers and two connector flanges. Due to its simple design, the service is maintenance-free. Thanks to external radial seals, there are no changes in cross-section and thus no pressure loss.

The media that can be used include for example water, oil and alkaline or acidic liquids. By selecting the material appropriately, the sight glass can be also be used with aggressive media.

SGL



- **sight glass tube of borosilicate glass**
- **installation direction freely selectable**
- **no pressure loss**
- **reliable due to simple functionality**
- **maintenance-free**





## Type series

SGL	sight glass made of steel
SGL-V4A	sight glass made of stainless steel

## Materials

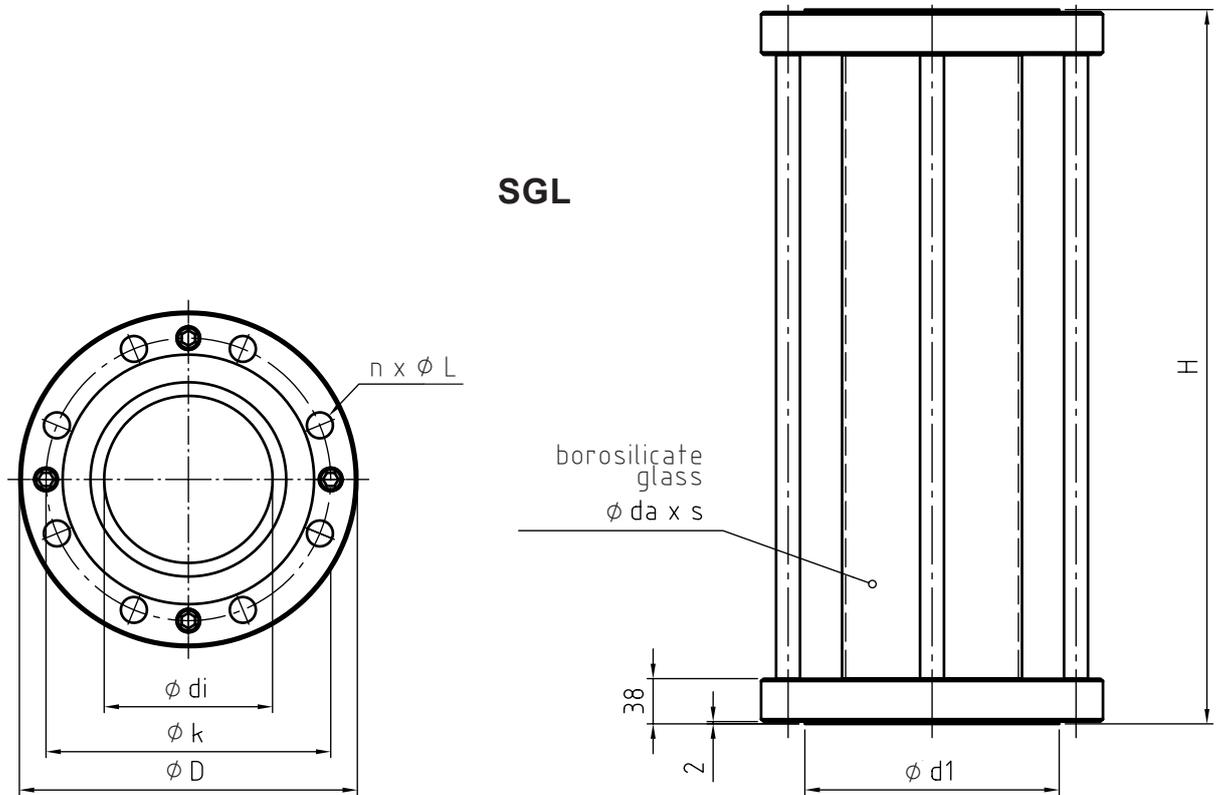
Type	SGL	SGL-V4A
Sight glass	borosilicate glass	borosilicate glass
Spacers	S355	1.4571 optionally: Hastelloy C4
Flanges	S355	1.4571 optionally: Hastelloy C4
Seals	NBR	NBR optionally: FKM

other materials on request

## Technical data

max. working pressure	see table p. 3
Temperature resistance <sup>1)</sup>	max. 70 °C, higher on request
Ambient Temperature	max. 70 °C
Connection	Flange PN 10 acc. DIN EN 1092-1, others on request
Corrosion protection	epoxy paint, kiln-dried, traffic blue (RAL 5017), satin finished
Corrosion class	C2

<sup>1)</sup> media must not freeze



## Dimensions

Flange connection PN10						Sight glass				
DN	$\varnothing D$	$\varnothing k$	$d_1$	$n$	$\varnothing L$	$H$	$\varnothing d_a$	$s$	$\varnothing d_i$	$p_{max}$ [bar]
50	165	125	102	4	18	600	63,5	4,5	54,6	8
65	185	145	122	8	18	600	77	5	67	9,7
80	200	160	138	8	18	600	90	5	80	8,2
100	220	180	158	8	18	600	115	5	105	6,4
125	250	210	188	8	18	600	140	5	130	5,2
150	285	240	212	8	22	600	170	5	160	4,2
200	340	295	268	8	22	600	200	5	190	3,6
250	395	350	320	12	22	600	270	5	260	2,6

all dimensions in mm



## Proper use

The user is responsible for assessing the suitability of the flow meters for his case of application, for use as prescribed and for material compatibility regarding the liquid product used in his process.

The manufacturer shall not be liable for any damage arising from incorrect or improper use of the devices.

Pressure surges can cause glass breakage and should therefore generally be avoided. The limit values given in the data sheet should be observed. In all other respects we advise following the installation recommendations specified in Code VDI/VDE 3513, Sheet 3.

The equipment from **Kirchner und Tochter** has been tested in compliance with applicable CE-regulations of the European Community. The respective declaration of conformity is available on request. Subject to change without notice. The current valid version of our documents can be found at: [www.kt-flow.de](http://www.kt-flow.de)

The **Kirchner und Tochter** QM-System is certified in accordance with DIN-EN-ISO 9001:2008. The quality is systematically adapted to the continuously increasing demands.