DG04

Flow Sight Glass for Installation between Two Flanges

- for liquids and gases
- 360° all round visibility
- easy installation between two DIN- or ANSI-flanges
- DN 10 up to DN 500
- design in acrylic or borosilicate glass
- insensitive to contamination
- maximum pressure 16 bar
- max. temperature: 280 °C

Flange not included in scope of delivery

Description:
Model series DG04 sight glasses are distinguished by their rugged construction and wide range of applications. A 50 mm long ring made of acrylic or borosilicate glass with very thick walls is clamped between two existing flanges. Their dimensions match those of the sealing face on the raised area of the flange. This sizing makes support from a separate metal housing unnecessary.
In addition, this design allows the flow to be viewed and monitored from any direction. The flange screws provide additional protection against mechanical damage.
The sight glass has no dead spaces, so that it can be flushed / cleaned together with the pipeline when changing products.
There are no deposits in the sight glass when the pipeline is drained, because the inner diameter of the sight glass corresponds to the inner diameter of the pipeline. The DG04 are therefore also ideally suited for sterile and antiseptide applications.

Typical applications:
The sight glasses can be used in almost all pipelines. In the borosilicate glass version, the units can be used for chemically very aggressive media. They are insensitive to contamination because the inner surface is always rinsed by the flowing medium.

In particular, the larger nominal sizes are very cost effective solutions since they only require the transparent cylinder and no metal housing with flanges.

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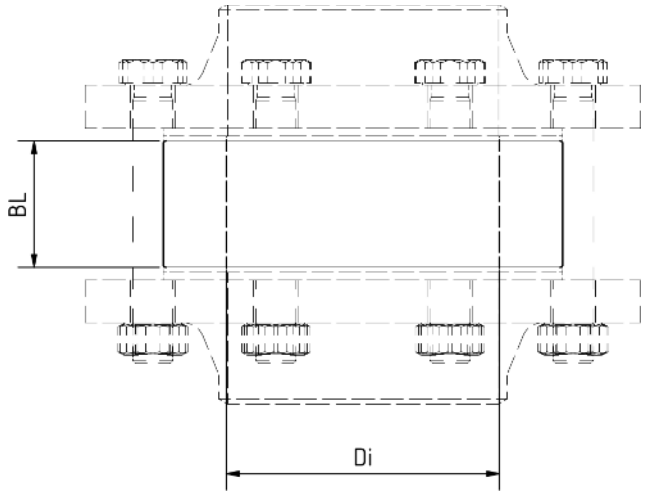
Subject to technical changes

Models:

DG 04.A: material: acrylic glass
max. temperature: +80 °C

DG 04.B: material: borosilicate glass
max. temperature: -200...+280 °C
for aggressive medias and high temperatures

Dimensions:



Order Code:

Order number: DG04. | A. | 50. | D. | 025. | 0

Flow sight glass for installation between two flanges

Models:
A = acrylic glass
B = borosilicate glass

Length:
050 = 50 mm (standard)
030 = 30 mm (for borosilicate glass only)
100 = 100 mm (for acrylic glass only)
Special length on request

Connection:
D = flange acc. to DIN 1092-1, max. PN 16
A = ASMEI-flange 16.5 B, max. PN 20

Nominal size:
010...500 = nominal size appropriate table „Dimensions“

Options:
0 = without
1 = please specify in plain text

Advice:
The flanges, screws and gaskets are not included in the delivery.

Dimensions, Pressure Stage, Weight:

Sight glasses for flanges acc. to DIN 1092-1:

Nominal size	Ø Inner Di [mm]	Ø Outer [mm]	Pressure Stage / Weight [kg] Acrylic	Pressure Stage / Weight [kg] Borosilicate
DN 10	14	40	PN 16 / 0,07	PN 16 / 0,13
DN 15	18	45	PN 16 / 0.008	PN 16 / 0,16
DN 20	22	58	PN 16 / 0,14	PN 16 / 0,27
DN 25	29	68	PN 16 / 0,18	PN 16 / 0,36
DN 32	38	79	PN 16 / 0,23	PN 16 / 0,46
DN 40	44	88	PN 16 / 0,28	PN 16 / 0,56
DN 50	55	102	PN 16 / 0,36	PN 16 / 0,71
DN 65	71	122	PN 16 / 0,47	PN 16 / 0,94
DN 80	83	138	PN 10 / 0,59	PN 16 / 1,16
DN 100	108	158	PN 10 / 0,64	PN 16 / 1,27
DN 125	132	188	PN 10 / 0,86	PN 16 / 1,71
DN 150	160	212	PN 10 / 0,93	PN 16 / 1,85
DN 200	208	268	PN 10 / 1,38	PN 16 / 2,73
DN 250	260	320	PN 8 / 1,65	PN 10 / 3,28
DN 300	310	370	PN 6	PN 10 / 4,41
DN 350	341	430	/	PN 10 / 6,2
DN 400	392	482	/	PN 10 / 7,1
DN 450	443	532	/	PN 10 / 7,8
DN 500	494	585	/	PN 10 / 8,9

Standard length BL = 50 mm
Larger sizes, pressures and other lengths on request.
The pressure-temperature limits according to DIN EN 1092-1

Sight glasses for ASME flanges acc. to 16.5 B, Class 150:

NPS	Ø Inner Di [mm]	Ø Outer [mm]	Pressure Stage / Weight [kg] Acrylic	Pressure Stage / Weight [kg] Borosilicate
3/8“	/	/	/	/
1/2“	16	35	PN 19 / 0,05	PN 20 / 0,09
3/4“	21	43	PN 18 / 0,07	PN 20 / 0,13
1“	27	50	PN 16 / 0,09	PN 20 / 0,17
1 1/4“	35	63	PN 16 / 0,13	PN 20 / 0,26
1 1/2“	41	73	PN 16 / 0,18	PN 20 / 0,35
2“	53	92	PN 16 / 0,27	PN 20 / 0,54
2 1/2“	63	105	PN 14 / 0,34	PN 20 / 0,67
3“	78	127	PN 14 / 0,48	PN 20 / 1,96
4“	102	157	PN 10 / 0,69	PN 20 / 1,36
5“	128	186	PN 10 / 0,88	PN 19 / 1,74
6“	154	216	PN 8 / 1,11	PN 16 / 2,19
8“	203	270	PN 8 / 1,53	PN 15 / 3,03
10“	255	324	PN 6 / 1,93	PN 10 / 3,82
12“	305	381	PN 6	PN 10

Standard length BL = 50 mm
Larger sizes, pressures and other lengths on request.
The pressure-temperature limits according to ASME 16.5 B!

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