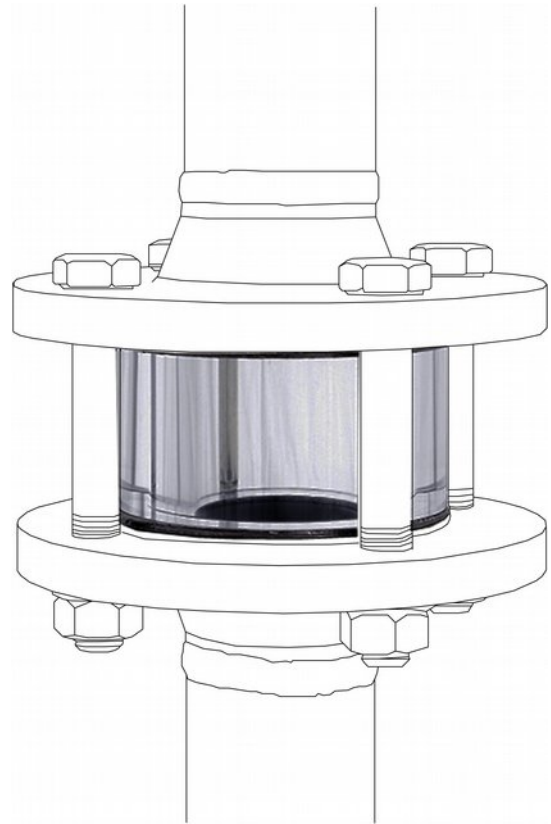


DG04

Flow Sight Glass for Installation between Two Flanges

- for liquids and gases
- 360° all round visibility
- easy installation between two DIN- or ANSI-flanges
- design in borosilicate glass for aggressive media, until 300 °C media temperature
- quartz glass-design for media-temperatures until 1100 °C
- insensitive to contamination
- maximum pressure 16 bar



Description:

Model series DG04 sight glasses are distinguished by their rugged construction and wide range of applications. They feature 30, 50 or 100 mm long transparent cylinders made of acrylic, soda-lime or borosilicate glass with very high wall thickness. These cylinders are intended to be 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:

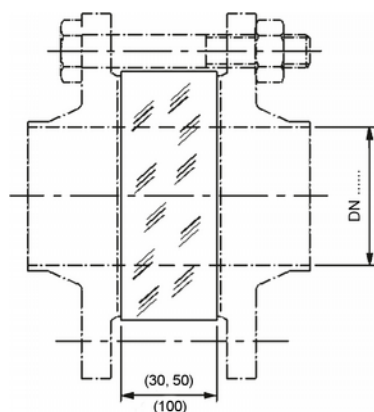
The flange bolts also offer additional protection against mechanical damage. The borosilicate glass version can be installed in devices used with very caustic / corrosive liquids. They are insensitive to contamination because the inner surface is constantly being rinsed by the flowing liquid.

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

Models:

- DG 04.A:** material: acrylic
 max. temperature: +80 °C
 max. pressure: 16 bar
- DG 04.B:** material: borosilicate glass
 max. temperature: -200...+300 °C
 max. pressure: 16 bar
 for aggressive medias and high temperatures
- DG 04.Q:** material: quartz glass-
 max. temperature: +1100 °C
 max. pressure: 16 bar
 for aggressive medias and very high temperatures

Assembly / Mounting:



Dimensions:

Nominal sizes	DG04 for DIN-flanges diameters [mm]		DG04 for ANSI-flanges diameters [mm]		Permitted process pressure [bar] with 150 °C and borosilicate glass
	outside	inside	outside	inside	
DN 10	40	14	40	14	16
DN 15	45	18	35	16	16
DN 20	58	23	43	21	16
DN 25	68	29	50	27	16
DN 32	79	38	63	35	16
DN 40	88	44	73	41	16
DN 50	102	55	92	53	16
DN 65	122	71	105	63	16
DN 80	138	83	127	78	16
DN 100	158	108	157	102	16
DN 125	188	132	186	128	16
DN 150	212	160	216	154	16
DN 200	268	208	270	203	16
DN 250	320	261	324	255	10

Larger nominal sizes and higher pressures on request.

Order Code:

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

Flow sight glass for installation between two flanges

Models:

A = acrylic
 B = borosilicate glass
 Q = quartz glass

Length:

030 = 30 mm (DG04.B only)
 050 = 50 mm
 100 = 100 mm (DG04.A only)

Connection:

D = flange, max. PN 16
 A = ANSI-flange, max. 150 lbs.

Nominal size:

010...250 = 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.

Weights:

Nominal sizes	DG04 for DIN-flanges weight [Kg]				DG04 for ANSI-flanges weight [Kg]			
	Borosilicate glass		Acrylic		Borosilicate glass		Acrylic	
	L [mm] 30	L [mm] 50	L [mm] 50	L [mm] 100	L [mm] 30	L [mm] 50	L [mm] 50	L [mm] 100
DN 10	0,08	0,13	0,07	0,14	0,06	0,09	0,05	0,09
DN 15	0,1	0,16	0,08	0,16	0,08	0,13	0,07	0,14
DN 20	0,16	0,27	0,14	0,27	0,1	0,17	0,09	0,17
DN 25	0,22	0,36	0,18	0,36	0,16	0,26	0,13	0,26
DN 32	0,28	0,46	0,23	0,46	0,21	0,35	0,18	0,35
DN 40	0,33	0,56	0,28	0,56	0,32	0,54	0,27	0,55
DN 50	0,42	0,71	0,36	0,71	0,4	0,67	0,34	0,68
DN 65	0,56	0,94	0,47	0,95	0,58	0,96	0,48	0,97
DN 80	0,7	1,16	0,59	1,17	0,82	1,36	0,69	1,37
DN 100	0,76	1,27	0,64	1,28	1,05	1,74	0,88	1,76
DN 125	1,03	1,71	0,86	1,73	1,32	2,19	1,11	2,21
DN 150	1,11	1,85	0,93	1,87	1,82	3,03	1,53	3,06
DN 200	1,64	2,73	1,38	2,75	2,29	3,82	1,93	3,85
DN 250	1,97	3,28	1,65	3,31	-	-	-	-