Instruction Manual

DG08

Sight Flow Indicator with ball

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Safety Information

General Instructions

To ensure safe operation, the device should only be operated according to the specifications in the instruction manual. The requisite Health & Safety regulations for a given application must also be observed. This statement also applies to the use of accessories. Every person who is commissioned with the initiation or operation of this device must have read and understood the operating instructions and in particular the safety instructions!

The liability of the manufacturer expires in the event of damage due to improper use, non-observance of this operating manual, use of insufficiently qualified personnel and unauthorized modification of the device.

Proper Usage

The flow indicators of the series DG08 are used for the optical control of liquids and gases. Any other use of the device is prohibited and outside the scope of application.

In particular, applications in which shock loads occur (for example, pulsed operation) should be discussed and checked in advance with our technical staff.

The devices of the DG08 series should not be used as sole monitoring devices in order to detect or even avoid dangerous operating states in plants and machines. The plant or machine itself must be planned and constructed in such a way that critical conditions which pose a danger to man and the environment are excluded from the outset

Dangerous substances

For dangerous media such as e.g. Oxygen, Acetylene, flammable or toxic substances as well as refrigeration systems, compressors, etc. must comply with the relevant regulations beyond the general rules.

Qualified Personnel

The devices of the DG08 may only be installed by trained, qualified personnel who are able to mount the devices correctly. Qualified personnel are persons, who are familiar with assembling, installation, placing in service and operating these devices and who are suitably trained and qualified.

Inward Monitoring

Please check directly after delivery the device for any transport damages and deficiencies. Additional with reference to the accompanying delivery note the number of parts must be checked.
Claims for replacement or goods which relate to transport damage can only be considered valid if the delivery company is notified without delay.

Functional description

The flow indicators of the DG08 series are used to monitor gaseous, liquid or aggressive media. The medium enters the valve body and lifts the Teflon ball resting in the valve seat.

Maintenance and care

Due to the small number of moving parts, the units require very little maintenance. However, regular functional checks and maintenance not only increase the service life and functional reliability of the device, but also that of the entire system.

The maintenance intervals depend on the contamination of the medium.

DG08

Ball-Type Flow Indicator

- **for liquids and gases**
- **robust stainless steel design**
- **max. temperature 200 °C**
  max. pressure 16 bar
- **for horizontal installation**
- **for nominal pipe sizes**
  from 1/4“ to 1 1/2“

Description:
The DG08 mechanical flow indicator is used for visual verification of the flow of liquids or gases. The liquid or gas being monitored lifts the PTFE ball from its valve seat. As the flow increases, the ball in the domed sight glass becomes increasingly visible. These devices are made of high-quality materials, allowing them to be used with a great variety of liquids or gases.

Typical application:
DG08 mechanical flow indicators are used to monitor the flow of liquid or gaseous media. These devices are especially suited for use in industrial systems and for process monitoring as well as for basic monitoring of compressors, ventilators, fans and many other types of similar equipment.

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Models:

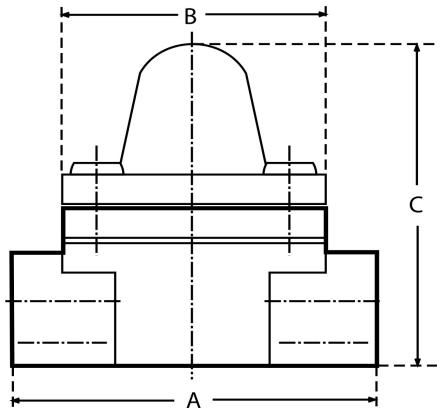
Material: housing from stainless steel

Flow rates:

	Ball / initial movement		Ball / fully visible	
Connection	**water [l/min]**	**air [l/min]**	**water [l/min]**	**air [l/min]**
G 1/4	0,1	2,5	1	9
G 3/8	0,1	3	1	10
G 1/2	0,1	10	1	50
G 3 /4	2,4	60	5,2	100
G 1	2,7	75	5,5	100
G 1 1/4	11	100	16	180
G 1 1/2	16	110	21	180

Dimensions:

Connection	A [mm]	B [mm]	C [mm]	Weight [kg]
G 1/4	76	63	79	0,72
G 3/8	76	63	79	0,69
G 1/2	76	63	79	0,65
G 3 /4	89	63	95	1,3
G 1	89	63	95	1,25
G 1 1/4	117	75	125	2,5
G 1 1/2	117	75	125	2,35



Order Code:

Order number: **DG08. E. 10. 0**

Ball-type flow indicator

Material:
E = stainless steel

Connection:

08 = G ¼ female thread	08N = 1/4“ NPT
10 = G 3/8 female thread	10N = 3/8“ NPT
15 = G 1/2 female thread	15N = 1/2“ NPT
20 = G 3/4 female thread	20N = 3/4“ NPT
25 = G 1 female thread	25N = 1“ NPT
32 = G 1 1/4 female thread	32N = 1 1/4“ NPT
40 = G 1 1/2 female thread	40N = 1 1/2“ NPT

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

Technical Data:

Max. pressure: 16 bar
Max. media-temperature: 200 °C

Materials:

Housing: stainless steel 1.4408, ASME 316, ASTM - A - 351 CF8M
Housing cover: stainless steel
Sight class: borosilicate glass
Pins: stainless steel
Kugel: PTFE
O-Ring: FKM
Dichtung: Klingersil C-4400 (non-wetted part)
Installation position: for horizontal installation only

Maximum flow velocity with liquids should not be more than 3 m/s.

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