



## OVERVIEW

### Operation

Gear flowmeter provide precise volumetric measurement of small flow and of liquid or low flows. Gear flowmeters have higher resolution and lower pressure loss than oval gear flowmeters but with higher speed and able to be tested on higher viscosity up to 100.000 cP.

It uses mechanical measuring elements to continuously divide the fluid into a single know volume part and measures the total flow volume based on the number of times the metering chamber fiils and discharges the volume portion of the fluid one by one. Recommended use us with 10 micron filtration

### Features

- High accuracy 0.5% FS
- Wide range 1:500
- Minimum flow 0.0005L/min.
- Ball/PEEK bear for more applications
- Pulse output
- Optional analog output
- Low pressure loss and fast response
- Customized high temperature and pressure
- Maximum resolution 0.015p/min.

### Application

- Automotive
- Aviation
- Power, chemical, pharmaceutical, food industries
- Petroleum
- Mechanical engineering
- Dispensing machine injector test bench
- Adhesive foaming agent
- Hydraulic leak



## OPERATING DATA

### Temperature Limit

-30°C...+80°C standart model  
120°C and 160°C on request

### Maximum Pressure

50 Bar (standart)  
400 Bar on request

### Accuracy

$\pm 0,5$  F.S  
 $\pm 0,2$  F.S on request

### Viscosity

100.000 cP maximum

## MATERIALS

### Body

SS316L, Aluminum

### Gear

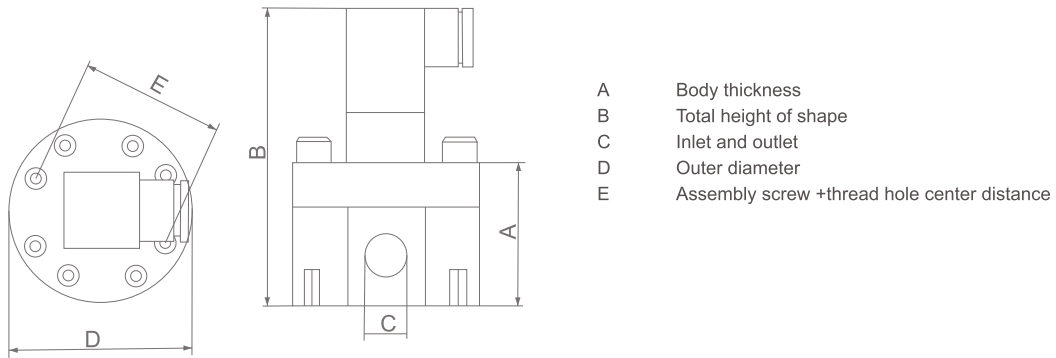
SS316L

## MEASURING RANGES

### Flow Range

5 cc/min to 120l/min

## TECHNICAL DRAWINGS AND DIMENSIONS



### GODF series

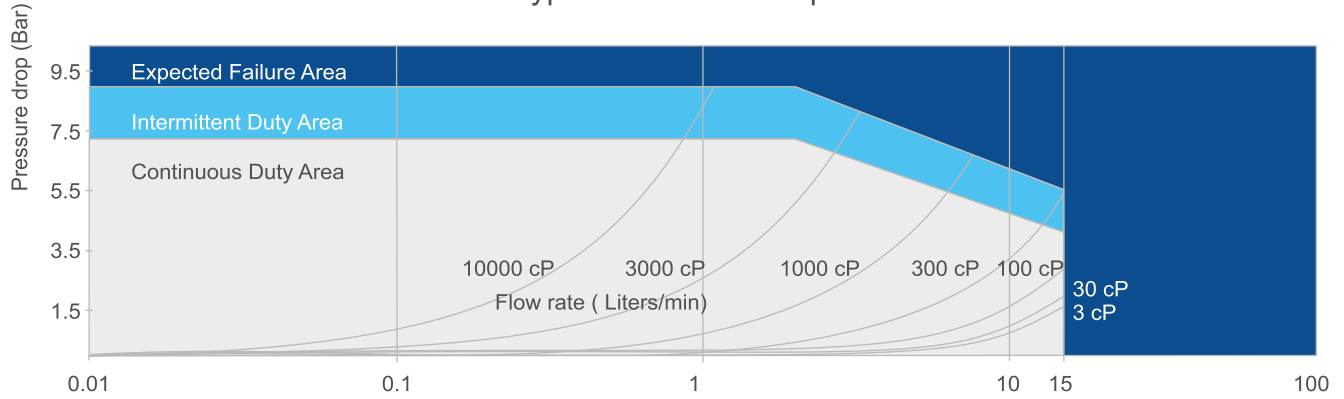
| Item   | 001  | 002  | 003  | 005  | 006  | 007  | 008  |
|--------|------|------|------|------|------|------|------|
| A (mm) | 30   | 30   | 36   | 46   | 56   | 44   | 54   |
| B (mm) | 65   | 65   | 71   | 82   | 91   | 79   | 89   |
| C (mm) | G1/8 | G1/8 | G1/4 | G3/8 | G1/2 | G1/2 | G3/4 |
| D (mm) | 64   | 64   | 79   | 79   | 79   | 99   | 99   |
| E (mm) | 42   | 42   | 74   | 74   | 69   | 90   | 90   |



## GODF-series parameters list

| Code     | K coefficient | Connection size | Start Flow | Flow range      | Gear material | Shell material |
|----------|---------------|-----------------|------------|-----------------|---------------|----------------|
| GODF.001 | 0.015 mL/P    | G1/8            | 0.001 mL/P | 0.005-0,5 L/min | SS316L        | SS/AL          |
| GODF.002 | 0.025 mL/P    | G1/8            | 0.001 mL/P | 0.004-2 L/min   | SS316L        | SS/AL          |
| GODF.003 | 0.04 mL/P     | G1/4            | 0.004 mL/P | 0.01-4 L/min    | SS316L        | SS/AL          |
| GODF.004 | 0.1 mL/P      | G1/4            | 0.008 mL/P | 0.02-8 L/min    | SS316L        | SS/AL          |
| GODF.005 | 0.245 mL/P    | G3/8            | 0.01 mL/P  | 0.08-16 L/min   | SS316L        | SS/AL          |
| GODF.006 | 0.4 mL/P      | G1/2            | 0.01 mL/P  | 0.1-40 L/min    | SS316L        | SS/AL          |
| GODF.007 | 1 mL/P        | G1/2            | 0.02 mL/P  | 0.2-80 L/min    | SS316L        | SS/AL          |
| GODF.008 | 2 mL/P        | G3/4            | 0.04 mL/P  | 0.5-120 L/min   | SS316L        | SS/AL          |

## Typical Pressure Drop



## ELECTRICAL DATA

### Output

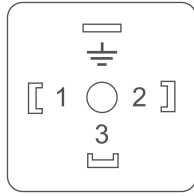
Pulse (NPN or PNP)  
4-20 mA, RS485-MODBUS, HART on request

### Power Supply

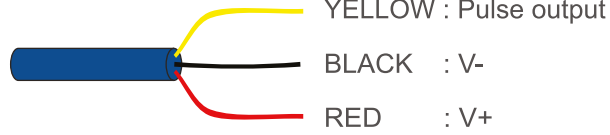
5...24 VDC



## WIRING



PIN 1 : 5-26 VDC  
PIN 2 : PULSE



## OPTIONS, ELECTRONIC

### ▪ BAB212

#### Selectable Inputs

4-20 mA, 0-10VDC, 0-5VDC, Pulse (PNP,NPN)

#### Operating Media

Liquids

#### Selectable Outputs

4-20 mA, 0-10VDC and pulse

#### Communication

RS485-MODBUS (HART on request)

#### Analog Input Resolution

10 bit

#### Digital Input Speed

10 KHz, maximum

#### Digital Output Speed

50 Hz, maximum

#### Display

TFT, 4.3" 480x272 pixel resistive touchscreen

#### Humidity

%10...85 non-condensate



#### Power Supply

24 VDC,  $\pm 10\%$

#### Power Consumption

3W

#### Dimensions

144 x 144 mm (front), 134 x 134 mm (rear), depth 100 mm

#### Enclosure

IP65 (front), IP66, IP67 on request



## ORDERING

[illegible]