

FOFT

Compact Orifice Flowmeter



OVERVIEW

Operation

The Bass Instruments Compact Orifice Flowmeter is designed for closed loop control and general purpose monitoring applications. This design lowers the total installed cost of DP flow measurement points eliminating the need for fittings, impulse tubing, valves, adapters and manifolds by providing a single device packaged together for simplified installation.

Application

- Pharmaceutical industry
- Chemical processes
- Steam measurements
- Heat carriers
- Process control
- Use at locations which are exposed to considerable vibrations

Features

- Volume or mass flow measurements
- Integrated counter
- Modular design concept
- High reproducibility
- No moving parts
- Extremely rugged and stable
- Suited also for extreme application
- Dry calibration is possible
- Easy to install without pulse piping
- Simple change of measurement range



OPERATING DATA

Working Pressure

325 Bar maximum

Temperature Limit

-40°C...+1000°C

Ambient Temperature

-40°C...+70°C

Stocking Temperature

-40°C...+85°C

Accuracy

±0.8% of measured value tor
dry calibration (≥DN50)
±0,6% of measured value tor
wet calibration

Fitting Position

Horizontal or vertical

Humidity

0-100 % rel. humidity of the air

Viscosity

Maximum 30 mPas

Enclosure

IP67

Pressure Loss

Maximum 150mbar

MEASURING RANGES

Flow

1 ... 150000 m3/h tor gas/vapour
0,2 ... 9000 m3/h tor liquids

MATERIALS

Sensor

AISI316L

Body

AISI 304, AISI 316L, CS

ELECTRICAL DATA

Output

4-20 mA, HART
Profibus, Field bus, pulse on request

Power Supply

12...45 VDC, 2 wire system

Electrical Connection

1/2" NPT



ORDERING

Model	
FOFT	Compact Orifice Flowmeter

Line Size	
XXX	Please fill (015 for DN15 or 200 for DN200)

Connection	
T	Thread (please specify NPT, G)
H	Flanged (please specify DIN, ANSI)
W	Wafer Type

Output	
A	4-20 mA + HART 2 wire
P	4-20 mA + HART and pulse (50Hz max)

Body Material	
CS	Carbon steel
S4	AISI 304
S6	AISI 316
XX	Other, please specify

Display	
N	None
R	5 digit LCD for rate
T	5 digit LCD for rate and total (rotative)

Enclosure	
67	IP67
68	IP68

Hazardous Area	
Xd	Flame proof Ex d II C T6, T5 or T4
Xi	Intrinsic safety Ex ia II C T6
Fd	FM & FM Canada explosion proof
Fi	FM & FM Canada intrinsic safety

Temperature Range	
S	-40...300°C
H	-40...500°C

Media	
L	Liquid
G	Gas
S	Steam

Flow Range	
XX	Please specify separately

