Dosimass / 8BE

Benefits:

- High process safety – high measuring accuracy for different media in shortest filling time
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Space-saving installation – no in/outlet run needs
- Versatile and time-saving wiring – plug connector
- Fast commissioning – pre-configured devices
- Automatic recovery of data for servicing

Specs at a glance

- **Max. measurement error** Mass flow (liquid): ±0.15 % Density (liquid): ±0.0005 g/cm³
- **Measuring range** 0 to 18 000 kg/h (0 to 660 lb/min)
- **Medium temperature range** –40 to +125 °C (–40 to +257 °F) 150 °C allowed for 1 h
- **Max. process pressure** PN 40
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L)

Field of application: Dosimass is specially designed for filling and bottling applications. It measures volume and mass flow directly with temperature and density compensation to ensure maximum repeatability. Designed for applications where space is a premium, Dosimass will be the preferred choice for system integrators, skid builders and equipment manufacturer.

Features and specifications

Liquids

Measuring principle
Coriolis

Liquids

Product headline

The compact sensor with an ultra-compact transmitter.
Measurement of liquids with the most diverse properties in continuous process control & batching applications.

Sensor features

High process safety – high measuring accuracy for different media in shortest filling time. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in-/outlet run needs.
Nominal diameter: DN 8 to 25 (⅜ to 1"). Various hygienic process connections, 3-A conform. CIP, SIP cleanable sensor.

Transmitter features

Versatile and time-saving wiring – plug connector. Fast commissioning – pre-configured devices. Automatic recovery of data for servicing.
Robust, ultra-compact transmitter housing. Pulse/frequency/switch output, Modbus RS485. Excellent and easily cleanable transmitter.

Nominal diameter range

DN 8 to 25 (⅜ to 1")

Wetted materials

Measuring tube: 1.4539 (904L)
Connection: 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow

Max. measurement error

Mass flow (liquid): ±0.15 %
Density (liquid): ±0.0005 g/cm³

Measuring range

0 to 18 000 kg/h (0 to 660 lb/min)

Max. process pressure

PN 40

Liquids

Medium temperature range
−40 to +125 °C (−40 to +257 °F)
150 °C allowed for 1 h

Ambient temperature range
−20 to +60 °C (−4 to +140 °F)

Sensor housing material
1.4301 (304), corrosion resistant

Transmitter housing material
1.4308 (304)

Degree of protection
IP67, type 4X enclosure

Display/Operation
No local operation
Configuration via operating tools possible

Outputs
Pulse/frequency/switch output (passive)

Inputs
None

Digital communication
Modbus RS485

Power supply
DC 20 to 30 V

Hazardous area approvals
ATEX, IECEx, cCSAus

Other approvals and certificates
3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR
3-A

Liquids

Product safety

CE