

FGM1190 Variable Area Flowmeter Glass Tube VA Flowmeter

Basic Information

- Brand Name: ABB
- Model Number: FGM1190



Product Specification

- Accuracy: High
- Communication Protocol: HART, PROFIBUS, FOUNDATION Fieldbus
- Fluid: Gas, Liquid
- Installation Type: In-line, Insertion
- Material: Stainless Steel, Alloy Steel, Titanium
- Measuring Principle: Differential Pressure
- Output Signal: 4-20mA
- Pressure Range: 0-100Bar
- Process Connection: Flange, Thread, Sanitary
- Product Name: ABB Flow Measurement Products
- Product Type: Flow Measurement
- Range: Wide
- Temperature Range: 0-150
- Warranty: 1 Years
- Highlight: **HART variable flow meter.**

Product Description

Glass tube variable area flowmeter FGM1190

The wide variety of float weights and meter tubes allows the glass tube flowmeter FGM1190 to be matched exactly to the required flow range. The three ribs, parallel to the center axis of the meter tube, guide the float over the entire flow range. This enables a high degree of reproducibility because the float is absolutely centered in the meter tube.

Overview

Designed for flowrate measurements in many industries including system manufacture, food, water treatment plants and chemical. Aggressive fluid applications are possible because the fluid wetted parts can be made from a wide variety of different materials.

Design type FGM1190-87

- With threaded pipe connection in accordance with DIN 2950.

Design type FGM1190-97

- With vertical internal thread connection or threaded connector in accordance with DIN 11851, DIN 405 part1 for the food and beverage industry.

Design type FGM1190-98

- With flange connection in accordance with DIN and ASME.

Easy range change and cleaning-no removal from the line required.

Excellent visibility of flow rate over a linear scale.

Data

General specifications:

Application

- Clean, low viscosity liquids and gases

Mounting

- Vertically, in line

Connections

- 1/4 in. to 2 in., threaded, DN 10 to DN 50 flanged, SC15 to SC50 hygienic (DIN11851), vertical

Flow ranges

- Water flows: 0.002 to 17600 l/h

Flow turndown

- Typically 10:1

Operating pressure

- Up to 18 bar (261 lbf/in 2 g)

Operating temperature

- Up to 180 °C (356 °F)

Nominal scale length

- 100, 130 or 250 mm (4, 5 and 10 in.)

Accuracy

- Class 1.6 to Class 6, depending on tube diameter and float type

Alarms

- Inert gas switches, up to 2 off

Tube material

- Borsilicat glass

Float material

- Stainless steel, Glass, Sapphire, Carboly, PVC, Tantalum, HastelloyTM, Aluminium, PTFE

Fitting material

- Stainless steel, PVC, PVDF

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18626217683



Meliss.Zhao@eco-techsz.com



psa-generators.com

Room 101, Building 19, No. 4388 Dong Shan Avenue, Lin hu Town, Wu Zhong District, Suzhou, China zip 215106