

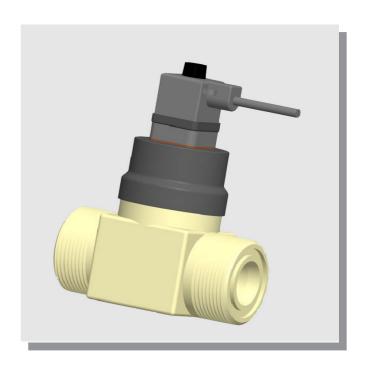
### (preliminary product information)

## FB39 || Flow transmitter for aggressive media

#### **Applications**

Flow transmitter based on the differential pressure principle with integrated orifice and ceramic pressure sensors, housing and process connection made from highquality plastic.

The flow transmitters in this series are suitable for diverse measuring tasks in electroplating and in treatment plant for drinking, potable, process and wastewater.



### Setup and action

The metering section, consisting of an orifice with differential pressure tapping holes, is grouped together with two pressure sensors and the electronics in a joint housing.

The flow-dependent differential pressure arising at the orifice is measured by the two pressure sensors and converted into a standard electronic signal.

Chemically resistant plastics for the components in contact with the measured medium and the pressure sensors made from highly pure ceramic enable use in plants with aggressive media.

#### **Main features**

- Robust design
- Resistant against aggressive media
- Measuring cell made from 99.6% AL<sub>2</sub>O<sub>3</sub> ceramic (coated)
- Compact design
- No moving parts
- Flow-proportional output signal
- Plant pressure possible as second output signal





## **Specifications**

Measuring range

[m<sup>3</sup>/h]

Nominal size

[DN]

Connection thread

[inch]

0.753.0	1.255.0	2.08.0	3.012.0	5.020.0	7.530.0	10.040.0
15	20	25	32	40	50	63
G 1	G 1 1/4	G 1 ½	G 2	G 2 1⁄4	G 2 ¾	G 3

General:

Accuracy

± 3% within the calculation point, 80% of the max. flow (cf. diagram)

all. ambient temperature

all. continuous medium temp.

0...60 °C 0...60 °C

Pressure range

3 bar static

Differential pressure

600 mbar

**Electrical connection** 

4 pole standard plug to EN 175301 -803-803-A

Display

4 digit LED

(only in conjunction with clip-on display)

Degree of protection

IP65 to EN 60529

Materials of parts in contact

with media

PVDF/Viton®

Housing material

Polypropylene PP

Polyvinylidene fluoride PVDF

**Electrical data:** 

Nominal voltage (UB)

max. all. tolerance range

' || '

 $(U_{min}...U_{max})$ 

12...30V DC

**24 VDC** 

Output signal | 4...20 mA, root extracted

Type of electrical connection

connection | 2 conductor

Limiting current

22.5 mA

Load impedance

 $\frac{(U_B-U_{min})}{0,0225}\cdot[\Omega]$ 

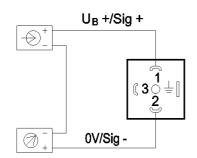
Temperature drift

0...60 °C ±0.5%

Zero point / measuring range

Temperature error band over the whole temperature range

### **Connection diagram**



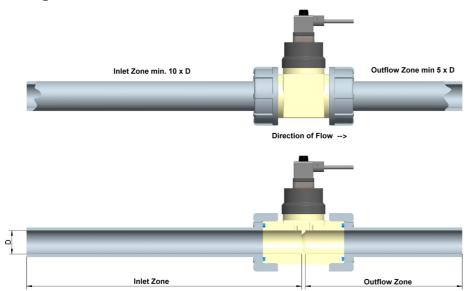
Legend:

⊕ Power supply

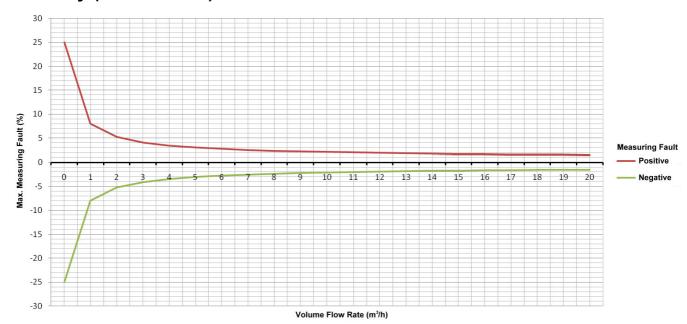
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# **Metering section**

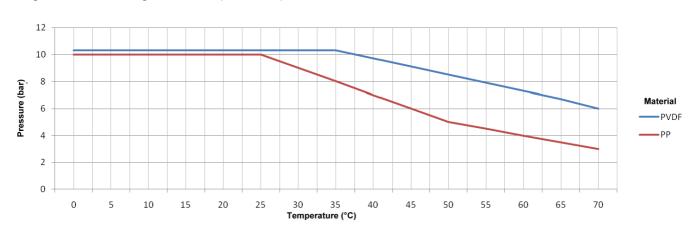


# **Accuracy (DN40 orifice)**



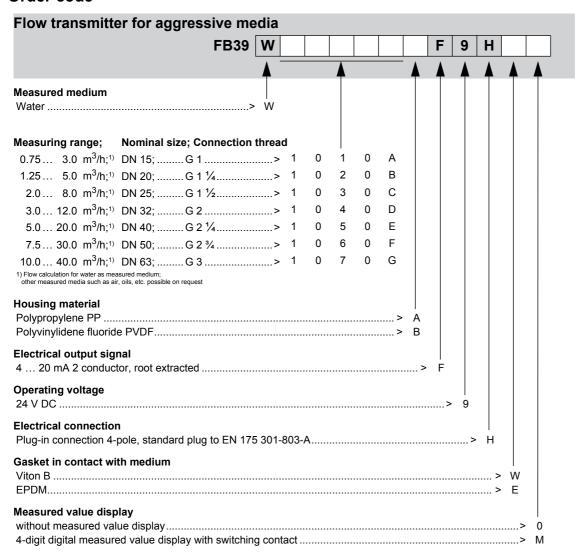
# Ambient temperature / continuous medium temperature

Range of use according to material (linearised)

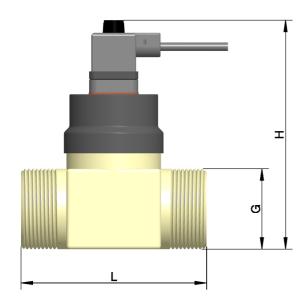




#### Order code



### **Dimensioned drawings**



The plug can be rotated in all directions.

Nominal Size	<b>Connection Thread</b>	Lenght L	Hight H
DN15	G 1"	90mm	123mm
DN20	G 1 1/4"	100mm	129mm
DN25	G 1 1/2"	110mm	137mm
DN32	G 2"	110mm	148mm
DN40	G 2 1/4"	120mm	151mm
DN50	G 2 3/4"	130mm	169mm
DN63	G 3"	140mm	172mm

Technische Änderungen vorbehalten • Subject to change without notice • Changements techniques sous réserve