# Electromagnetic flow meter Version with Victaulic® pipe connection Model FLC-2100F

WIKA data sheet FL 20.11

### **Applications**

- Earthquake devices
- Fire protection devices
- Building engineering

### **Special features**

- Victaulic<sup>®</sup> pipe connection
- Individual assembly without welding
- High shock resistance and vibration dampening
- High abrasion resistance



#### Model FLC-2100F

## Description

Electromagnetic flow meters are based on the Faraday principle, by which a conductor which traverses a magnetic field generates a potential oriented perpendicular to that field. The flow tube is enclosed by two flanges and also by two coils. The magnetic field which is generated by the electric current running through the coils induces a potential difference in the electrodes that is proportional to the flow being measured.

A WIKA signal converter, either attached directly to the instrument or separated from it (e.g. model FLC-608), generates the current to supply the magnetic coil, detects the potential difference between the electrodes, processes the signal to calculate the flow and manages communication with the external control systems.

The model FLC-2100F uses an innovative pipe connection technology to enable safe and easy installation without welding. For the assembly, common hand tools are used.

Victaulic® pipe connections were patented in 1919. Today, they ensure, worldwide, that a fast operation is possible with increased safety and reliability.

The Rilsan® lining ensures reliable protection of metal parts against corrosion, even by aggressive media such as wastewater, seawater, hydrocarbons or chemical media.



# **Specifications**

### Available pipe diameters

Diameter							
mm	50	80	100	150			
in	2	3	4	6			

Basic information				
Operating pressure	PN 10 PN 25			
Maximum medium temperature	80 °C [176 °F]			
Wetted parts	■ Rilsan <sup>®w</sup> ■ Hastelloy C <sup>®</sup>			
Flow tube lining	Rilsan® 1)			
Compatible signal converters	■ FLC-406 ■ FLC-608 A/B/R			
Ingress protection per EN 60529	■ IP67 ■ IP68 on request			
Electrical connection Cable gland M20 x 1.5, terminal block and sealing resin				

<sup>1)</sup> Rilsan® per standards BSI WIS 4-52-01, KIWA BRL K759-01 and UL 1091.

### Flow rate in m<sup>3</sup>/h

DN	Velocity in m/s				
	0.05	0.5	5	10	
50	0.35	3.53	35.34	70.69	
80	0.9	9.05	90.48	180.96	
100	1.41	14.14	141.37	282.74	
150	3.18	31.81	318.09	636.17	

# **Approvals**

Logo	Description	Country
C€	EU declaration of conformity	European Union
	EMC directive	
	EN 61326 emission (group 1, class B) and immunity (industrial application)	
	Low voltage directive	

Approvals and certificates, see website

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We reserve the right to make modifications to the specifications and materials.

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