

VNER



ELECTROMAGNETIC FLOWMETER

MWDC-LDG SERIES

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PRODUCT DESCRIPTION

An electromagnetic flowmeter has two main components - the sensor and the converter. It works by utilizing Faraday's law of electromagnetic induction to measure the flow of conductive liquids. This device is widely used in various industries such as metallurgy, chemical, paper and pulp, environmental protection, petroleum, textile, food and beverage, municipal management, and water conservancy construction.

The electrodes generate a magnetic field that induces a voltage in the conductive liquid. Meanwhile, the converter converts the voltage signal into a flow rate. As a result, the electromagnetic flowmeter provides highly accurate and reliable readings, enabling precise measurements in different industrial applications.

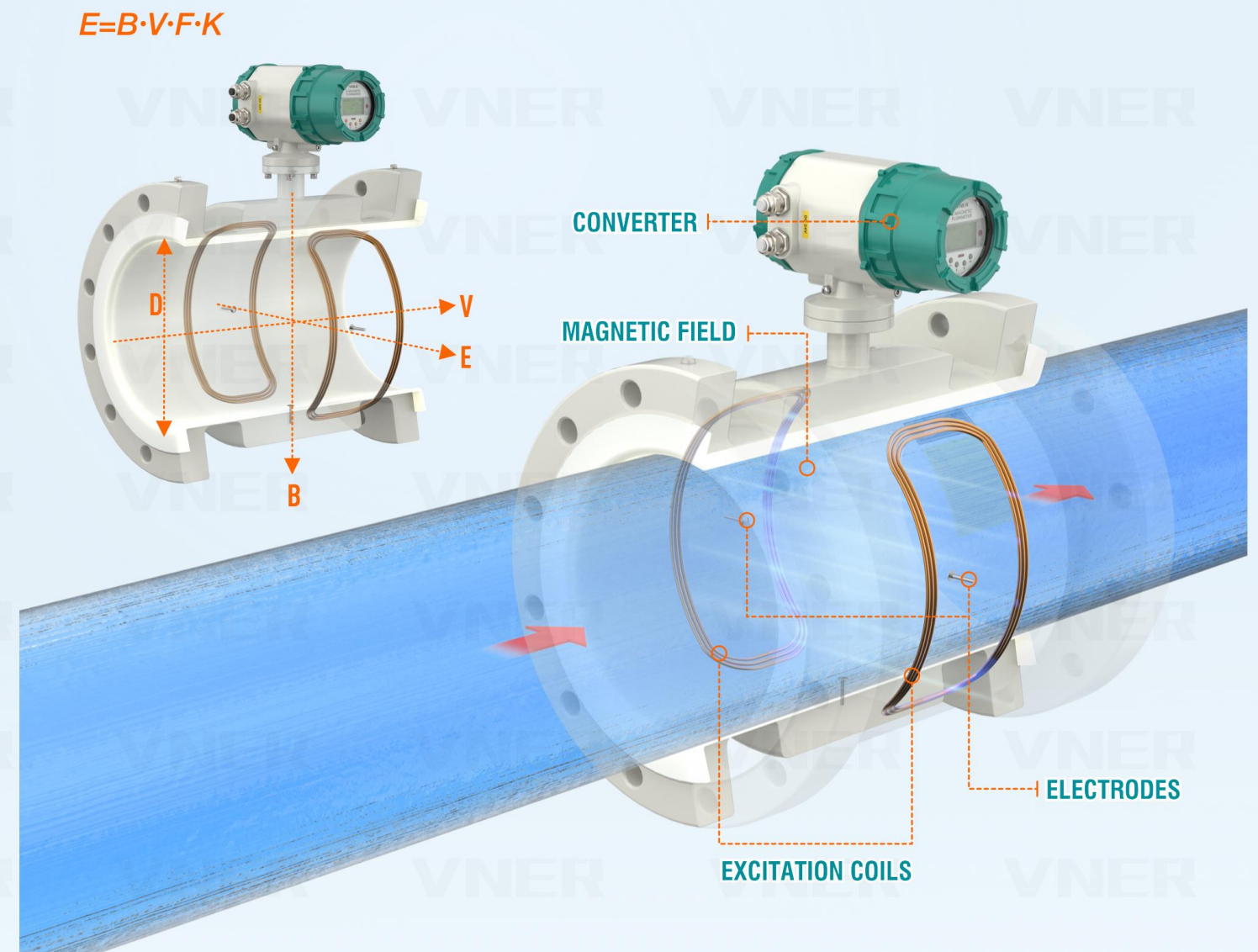
PRODUCT FEATURES

- Low-frequency square wave excitation, excitation frequency: 1/16, 1/20, 1/25.
- High-frequency square wave excitation, excitation frequency: 1/2 (for slurry measurement).
- Excitation current can be selected as 125mA, 187.5mA, 250mA, 500mA.
- Empty tube measurement function without additional electrodes, continuous measurement, fixed value alarm.
- Flow rate measurement range: (0.1-15) m/s, flow rate resolution: 0.5 mm/s.
- Network function: MODBUS, HART, GPRS, PROFIBUS (optional).
- Chinese, English display, (other languages can be customized).
- There are three internal accumulator totals, which can be recorded separately: forward total, reverse total, and differential total.

TECHNICAL CHARACTERISTICS

- Nominal Diameter(mm): DN (3-3000).
- Measuring medium: acids, alkalis, salt solutions, pulp, slurry and other conductive mediums.
- Process temperature: (-25~+180) °C.
- Nominal Pressure: standard model ≤ 4.0 MPa.
- Accuracy rating (%): ± 0.5%.
- Repeatability: better than 0.1%
- Rangeability: standard model 100:1
- Output: (4~20)mA, HART communication, RS485 optional.

■ Typical applications: acids, alkalis, salt solutions, pulp, slurries and other conductive fluids.



We adapt to local regulations, we strive to deliver quality solutions and we are constantly trying to reduce our environmental impact.

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