



Overview

EDM electromagnetic flow meter does not contain any moving parts, rotating gears or turbines, or bearings. Instead, it relies on two electrodes to measure the density of the induced magnetic field that results from an electrically conductive fluid, such as water, flowing through a pipe. So there is no susceptibility to bearing wear or other mechanical wear-and-tear issues.

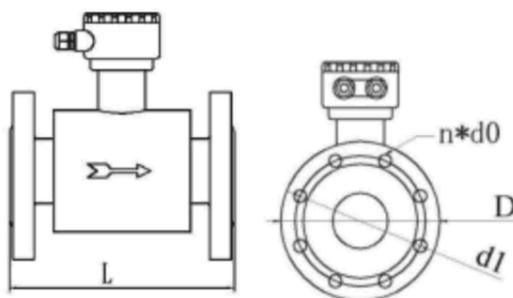
As for the electrodes and the liner used in electromagnetic flow meter, these components can be fabricated from a variety of materials to make the mag meter compatible with virtually various electrically conductive fluid, including aggressive acids.

We provides wide range of electromagnetic flow meters, all fulfilling the highest demands in terms of accuracy and reliability in industries such as water and waste water, food and beverage, mining, pulp and paper.

Features

- Applicable sizes 15~500mm
- Operating pressure: $\leq 1.6\text{MPa}$ (230psi)
- No moving parts, no pressure loss and require very less maintenance
- Electrode materials: SUS316L, Hastelloy B, Hastelloy C, Ta, Ti, etc.
- It can measure the flow of fluid in the forward and reverse directions.
- RS485 mod-bus communication or 4-20mA output
- 0.5%F.S measuring accuracy

Dimensions



DN	L(PTFE)	L(Rubber /PFA/F46)	D	d1	n*d0
15	193	/	95	65	4*14
20	193	/	105	75	4*14
25	193	/	115	85	4*14
32	193	/	135	100	4*18
40	193	200	145	110	4*18
50	193	200	160	125	4*18
65	243	250	180	145	4*18
80	244	250	195	160	8*18
100	244	250	215	180	8*18
125	244	250	245	210	8*18
150	290	300	280	240	8*23
200	341	350	335	295	12*23
250	441	450	405	355	12*26
300	490	500	460	400	12*26
350	490	500	500	460	16*23
400	490	500	565	515	16*26
450	540	550	615	565	20*26
500	540	550	670	620	20*26

Parameters

Measuring principle	Faraday's law of electromagnetic induction
Function	Real-time flow rate, flow velocity, mass flow (when the density is constant), real-time measurement and flow accumulation
Module configuration	Measurement system is made up of signal converter and measurement sensor
Converter	Compact / Integrated Type & Remote / SplitType
Measurement sensor	Nominal Diameter: DN10~DN300
Flange	In line with JB/T9248-2015 standard or BS EN 1092-1 standard carbon steel
Pressure rating <small>High pressure can be customized)</small>	DN15 - DN250, PN \leq 1.6MPa DN300, PN \leq 1.0MPa
Lining Material	Neoprene (CR), Polyurethane (PU), PTFE (F4), PFEP (F46), PFA
Electrode Material	316L Stainless Steel, Hastelloy C, Hastelloy B, Ti, Ta, Pt
Ingress protection	Compact / Integrated Type: Ip65 Remote / SplitType : IP65 for transmitter (IP65/IP68 for sensor)
Medium temperature	Neoprene:-10°C ~ 70°C ; Polyurethane:-10°C ~ 60°C PTFE/FEP:-10°C ~ 120°C; PFA:-10°C ~ 180°C
Environment temperature	-20°C - 60°C
Storage temperature	-40°C - 65°C
Sensor housing	Carbon steel, stainless steel 304, stainless steel 316L
Power supply	220VAC or 24VDC or 12VDC (Low power consumption) Battery (optional)
Power consumption	Max 15W, minimum 3W (12VDC power supply, suitable for solar power supply occasions)
Graphic display	Monochrome LCD display with white or green backlight
Serial communications	Modbus RS-485
Output	Current (4~20 mA) , pulse , frequency
Function	Empty pipe recognition, electrode contamination, upper limit alarm, lower limit alarm