

Salient Features

- Zero pressure drop
- Measurement independent of liquid properties
- Suitable for all types of electrically conductive liquids
- Acids, caustic and corrosive additives are isolated from the meter pipe by inert linings and compatible electrodes
- Tolerates high percentage of suspended solids, sludge, slurries, minerals, paper and sewage which flows with high level of contaminants

Applications

- Water, Waste water, ETP, STP and Industrial RO
- Pulp and Paper Industries
- Agriculture, Sugar Industries and Distilleries
- Power Plant, HVAC, Steel and Aluminium Industries
- Chemical / Pharmaceuticals Industries
- Process Industries
- Food, Beverage and Drug Industries
- Machinery and Fertilizer Industries
- Mining and Dredging Industries
- Petrochemical Industries

Flow Range

Line Size(DN)	Flow Range (m ³ / hr)	Dimensions			
		Integral		Remote	
		A	B	A	B
25	1.77 - 21.21	258	200	203	200
32	2.90 - 34.74	258	200	203	200
40	4.52 - 54.29	258	200	203	200
50	7.07 - 84.82	267	200	212	200
65	11.95 - 143.35	283	200	228	200
80	18.10 - 217.15	283	200	228	200
100	28.27 - 339.29	303	250	248	250
125	44.18 - 530.14	323	250	268	250
150	63.62 - 763.4	323	300	268	300
200	113.10 - 1357.2	353	350	298	350
250	176.71 - 2120.6	380	400	325	400
300	254.47 - 3053.6	405	500	350	500

Electromagnetic Flowmeter EFM Series



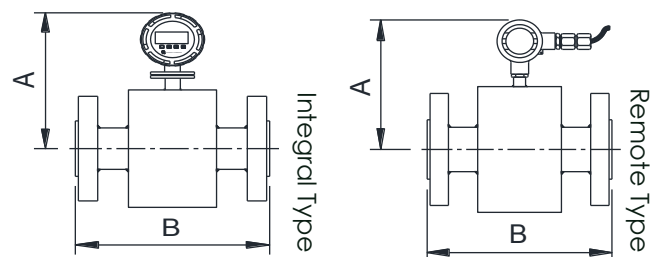
Operating Principle

The operating principle of Electromagnetic flow meters is based upon Faraday's Law of electromagnetic induction, "It state that when a conductor moves within magnetic field, voltage is induced in it which is directly proportional to the mean velocity of conductor."

$$E = v \cdot k \cdot B \cdot D$$

The magnitude of the induced voltage (E) which is picked off by electrodes is directly proportional to the mean velocity (v) of the fluid (Conductor) having width (D) through the magnetic field strength (B) generated by pair of coils, and thus the flow rate (Q) = v * Area.

Dimensions



Installation should be such that the Flowmeter will always remain with Fluid. Minimum 10D upstream and 5D downstream should be maintained. Grounding of Flowmeter and fluid must be proper.

Technical Specifications

Suitable for Pipe Size	DN25 to DN 300
Medium Conductivity	>5microSiemens / cm, and >20microSiemens / cm for DM cold water.
Ambient Temperature	-4 to 140 °F (-20 to 60 °C)
Process Temperature	PTFE lining -20 to 302 °F (-29 to 150 °C), Neoprene lining- 0 to 185 °F (-18 to 85 °C)
Pressure Rating	As per Flange Rating
Electrodes	SS316L, HastelloyC, Titanium, Tantalum
Lining	PTFE /Neoprene Rubber
Process Connection	ANSI/ASA/ASME (# 150, # 300), DIN PN 40, DIN PN 16, DIN PN 10, Tri-clamp
Power Supply	24Vdc±10% or 230Vac±10%
Accuracy	±0.5% of MV or better
Output	4-20 mA, Pulse, Alarm, MODBUS RTU
Display	LCD with backlit for Flow rate (6 Digits), Flow velocity, Three types totalizer (9 Digits), Flow Percentage, Current o/p, Empty Ratio with Alarm indicator and Bidirectional Flow

About Rockwin

Rockwin an ISO 9001 company, has been designing, manufacturing, calibrating, and marketing high quality Turbine Flowmeters and related equipment for Oil, & Gas, Chemicals & Fertilizers, Pharmaceuticals, Power, Steel, Defense and other major industries since 1976. The company has continued to grow steadily over the years integrating diverse technologies to solve complex measurement problems / needs. Combining technological advances with stringent safety standards, corporate social responsibilities and green values are its hallmark. The product line includes Inline, Insertion, Custody Transfer Meters, Fuel Gas Turbine Flowmeters, Positive Displacement Flowmeters, Other Flowmeters and a wide range of reliable Flowmeters Accessories.

Rockwin In House Calibration Lab



Rockwin's certifications include

- ISO 9001
- PED (Directive 97/23/EC) Module H
- NABL accreditation to ISO / IEC 17025
- ATEX

Rockwin's Calibration Facilities are accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories) and in accordance with ISO / IEC 17025.

Other Flowmeters From Rockwin



Fuel Gas Turbine Flowmeter
10 m³ / hr to 2500 m³ / hr



Gas RPD meter
0.5 Am³ / hr to 650 Am³ / hr



Liquid Turbine Flowmeter
0.03 m³ / hr to 7000 m³ / hr



Custody Transfer
Turbine Flowmeter
27 m³ / hr to 4000 m³ / hr



Screw Volumeter
0.2 LPM to 5000 LPM



Coriolis Mass Flowmeter
0.004 kg / min to 30000 kg / min

Development dictates that from time to time the data shown above is subject to change without notice. Please obtain a quotation.

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