ELECTRO MAGNETIC

(VELOCITY FLOW METER)

AN ELECTROMAGNETIC FLOWMETER, ALSO KNOWN AS A MAGMETER, FLOW METER IS A DEVICE THAT MEASURES THE FLOW RATE OF CONDUCTIVE FLUIDS (LIQUIDS OR SLURRIES) BY INDUCING A MAGNETIC FIELD AND DETECTING THE VOLTAGE GENERATED AS THE FLUID PASSES THROUGH IT. IT'S COMMONLY USED IN INDUSTRIES SUCH AS WATER AND WASTEWATER MANAGEMENT, CHEMICAL PROCESSING, AND THE FOOD AND BEVERAGE INDUSTRY.



PERFORMANCE DATA

The Flowmeter work with minimum 1 µs/cm for 0.25 m^3/hr to 2500 m^3/hr withstand up to 60 Bar pressure. The Electromagnetic Fowmeter typically includes various specifications and characteristics Like wide flow range , pipe size range, liquid conductivity range.

ADVANTAGES

Electromagnetic flow meter make them a popular choice for various industries and applications with Ease of Installation, Obstruction Free Flow Measurement, Cost effectiveness, Bi-directional Flow Measurement, Highly Accurate Volumetric Flow Measurement, Wide Range of Liner Materials and Electrode Options, Low Maintenance Requirements, Resistance to Corrosive Materials and Digital Communication Capabilities.

MARKETS & AREAS OF APPLICATION

Electromagnetic flow meter is diverse, spanning various industries and applications where accurate and reliable flow measurement of conductive liquids is essential like Water and Wastewater Treatment, Chemical Processing, Food and Beverage Industry, Pulp and Paper Industry, Pharmaceuticals, Mining and Slurries, Oil and Gas, Power Generation, HVAC (Heating, Ventilation, and Air Conditioning).

GENERAL SPECIFICATION

Housing	: SS - 304 / SS - 316 / on request
Lining	: PTEF / PFA / Rubber / on Request
Electrode	: Ss316 / HASTELLOY / TANTALUM TITANIUM / PLATINUM
Repeatability	: 0.2%
Accuracy (standard position)	: ±0.5 or 1% FSD
Maximum Working Pressure	: 60 Bar
Fluid & Ambient Temperature	: -20° to 120° ~ 180° C
Connection	: Thread (M) / Flange Tc End

MODEL RANGE

Model Number	Line Size	Range
BT-MFT - 015	15 MM	0.32 ~ 05.09 m^3/h
BT-MFT - 020	20 MM	0.57 ~ 09.05 m^3/h
BT-MFT - 025	25 MM	0.88 ~ 17.67 m^3/h
BT-MFT - 032	30 MM	1.45 ~ 28.95 m^3/h
BT-MFT - 040	40 MM	2.04 ~ 40.83 m^3/h
BT-MFT - 050	50 MM	3.53 ~ 70.69 m^3/h
BT-MFT - 065	65 MM	5.61 ~ 112.22 m^3/h
BT-MFT - 080	80 MM	9.05 ~ 180.96 m^3/h
BT-MFT - 100	100 MM	14.14 ~ 282.74 m^3/h
BT-MFT - 150	150 MM	33.96 ~ 679.29 m^3/h
BT-MFT - 200	200 MM	57.69 ~ 1153.71 m^3/h
BT-MFT - 250	250 MM	97.04 ~ 1940.86 m^3/h
BT-MFT - 300	300 MM	127.23 ~ 2544.69 m^3/h

DISPLAY WITH VARIOUS OUTPUT

Power Voltage : 24 V DC / 230 V AC

Output Signal

Retransmit : (4 ~ 20) mA / Pulse

Communication : RS - 485 / HART Protocol / Alarm

Relay : High & Low Flow

Battery Operated Meter

Power Voltage : 3.6 V DC X 4 Lithium Batteries

Display Mode : Double row LCD as below

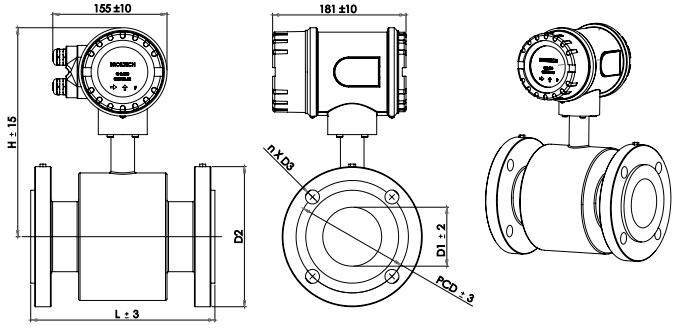
Q X.XXXXXX Seven Digit Instantaneous Flow (m^3/h, L/h, L/M, m^3/M, m^3/h, L/h, kg/M, GPM, T/h, kg/h)

XXXXX.XXXX Nine Digit Cumulative Flow

Cumulative flow : Automatically expand the display precision.

The cumulative flow values can be reset.

Power - fail protection : The instrument coefficient ensures that total flow values for the past ten years are retained even in the event of a power supply drop.



FLANGE END DIMENSION

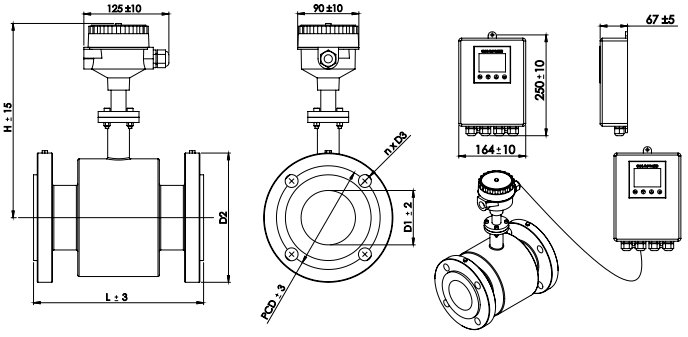
Model Number	L	D 1	D 2	n X D 3	PCD	H
BT-MFT - 015 - R	200	15	90	4 X 16	60.3	256
BT-MFT - 020 - R	200	20	100	4 X 16	69.9	248
BT-MFT - 025 - R	200	25	110	4 X 16	79.4	251
BT-MFT - 040 - R	200	38	125	4 X 16	98.4	262
BT-MFT - 050 - R	200	50	150	4 X 19	120.7	267
BT-MFT - 065 - R	250	63	180	4 X 19	139.7	274
BT-MFT - 080 - R	250	80	190	4 X 19	152.4	284
BT-MFT - 100 - R	250	100	230	8 X 19	190.5	294
BT-MFT - 150 - R	300	155	280	8 X 22.3	241.3	321
BT-MFT - 200 - R	350	202	345	8 X 22.3	298.5	349
BT-MFT - 250 - R	450	262	405	12 X 25.4	362	384

ALL THE DIMENSION IN MILLIMETER

DISPLAY OUTPUT

✶ Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure water at room temperature



FLANGE END DIMENSION

Model Number	L	D 1	D 2	n X D 3	PCD	H
BT-MFT - 015	200	15	90	4 X 16	60.3	258
BT-MFT - 020	200	20	100	4 X 16	69.9	250
BT-MFT - 025	200	25	110	4 X 16	79.4	253
BT-MFT - 040	200	38	125	4 X 16	98.4	264
BT-MFT - 050	200	50	150	4 X 19	120.7	269
BT-MFT - 065	250	63	180	4 X 19	139.7	276
BT-MFT - 080	250	80	190	4 X 19	152.4	286
BT-MFT - 100	250	100	230	8 X 19	190.5	296
BT-MFT - 150	300	155	280	8 X 22.3	241.3	323
BT-MFT - 200	350	202	345	8 X 22.3	298.5	351
BT-MFT - 250	450	262	405	12 X 25.4	362	386

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