Electromagnetic Flow Meter

Flow Range

Diameter		Flow Rate (m^3/h)		
		V=0.3m/s	V=6m/s	V=10m/s
mm	Inch	Min	Calibrated	Max
6	1/4"	0.03	0.6	1
10	3/8"	0.1	1.7	3
15	1/2"	0.2	4	6
20	3/4"	0.3	7	11
25	1"	0.5	11	18
32	1-1/4"	0.9	17	29
40	1-1/2"	1	27	45
50	2"	2	42	71
65	2-1/2"	4	72	120
80	3"	5	109	181
100	4"	8	170	283
125	5"	13	265	442
150	6"	20	382	636
200	8"	34	679	1131
250	10"	53	1060	1767
300	12"	76	1527	2545
350	14"	104	2078	3465
400	16"	136	2714	4524
450	18"	171	3435	5726
500	20"	212	4241	7069
600	24"	305	6107	10179
700	28"	415	8310	13850
800	32"	542	10860	18100
900	36"	662	13740	22900
1000	40"	848	16962	28270

Description

The magnetic flow meter is one of the most flexible and universally applicable flow measurement systems available. It is a volumetric flow meter which does not have any moving parts and is ideal for waste water applications or any dirty liquid which is conductive or water based. Magnetic flow meter is also ideal for the applications where low pressure drop and low maintenance are required.

Application

- Waster water industry: transport networks sewage treatment plants, sludges
- Chemical industry: acids alkalis, dosing applications, abrasive or corrosive mediums
- Metal & mining industry: mediums with a high solid content, like ore or excavator mud
- Water industry: Revenue metering, district metering water abstraction, leakage detection
- Pulp & paper industry: pulp, pastes, sludges & other caustic mediums, liquor additives, bleaches, colourants
- Food & beverage industry: mixing, dosing and filling of drinks under hygienic conditions filling systems applications

Operating Principle

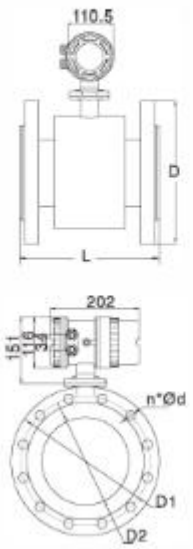
Following Faraday's law of magnetic induction, a voltage is induced in a conductor moving through a magnetic field. In the electromagnetic measuring principle, the following medium is the moving conductor. The voltage induced is proportional to the flow velocity and is supplied to the amplifier by means of two measuring electrodes. The flow volume is calculated by means of the pipe cross section area.

Technical Data

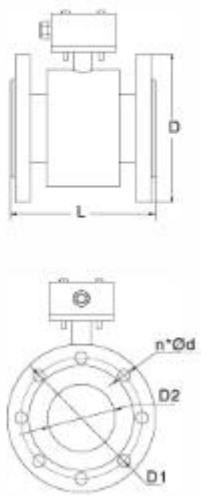
Certificates	ISO9001:2008; CE
Diameter	PTFE: DN6-DN600
	Hard ruber: DN50-DN2200
Flow Direction	Positive; Negative
Repeatability Error	±0.1%
Accuracy	±0.5% of rate ; ±0.2% of rate
Medium Temperature	Hard rubber liner: -20...+60°C
	High-temp rubber liner: -20...+90°C
	PTFE liner: -20...+120 °C
	High-temp PTFE liner: -20...+160°C
	PFA: -20...+180°C
Nominal Working Pressure	DN10-DN25≤4.0Mpa
	DN32-DN150≤1.6Mpa
	DN200-DN600≤1.0Mpa
	DN700-DN2200≤0.6Mpa
Velocity	0.3-10m/s
Ambient Temperature	-20...+60 °C
Relative Humidity	5%~95%
Comsumed Power	<20W

Dimensions:

Notice: The dimensions in table below are based on DIN PN16 Flange. Please consult the factory for other flanges: ANSI or JIS.



Compact Type



Remote Type

Flange DIN PN16						
Diameter (mm)	B Type L (mm)	T Type L (mm)	D (mm)	D1 (mm)	D2 (mm)	n*ød
10	160/120	120	90	60	41	4*14
15	160/200	200	95	65	45	4*14
20	165/200	200	105	75	58	4*14
25	200	200	115	85	68	4*14
32	200	200	140	100	78	4*18
40	200	200	150	110	88	4*18
50	200	200	165	125	102	4*18
65	250	200	185	145	122	4*18
80	250/200	200	200	160	138	8*18
100	250/200	250	220	180	158	8*18
125	250	NA	250	210	188	8*18
150	300	NA	285	240	212	8*22
200	350	NA	340	295	268	12*22
250	450	NA	405	355	320	12*22
300	500	NA	460	410	375	12*22

Notice: Two length are available for B type DN10, DN15, DN20, DN80, DN10