

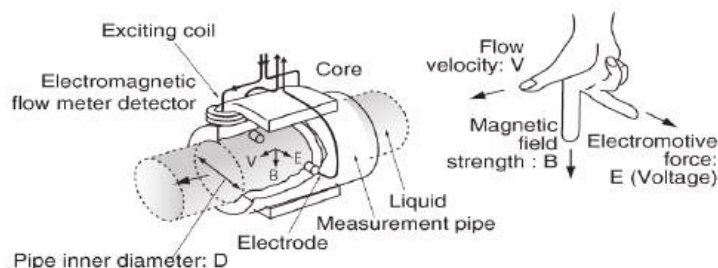
Electro Magnetic Flow Meter



VMAG 5000 SERIES
Online | Remote

WORKING PRINCIPLE

Electromagnetic flow meters (or magmeters) are a type of velocity or volumetric flow meter that operate pursuant to Faraday's law of electromagnetic induction – which states that a voltage will be induced when a conductor moves through a magnetic field. Magmeters can detect the flow rate of conductive fluids only.



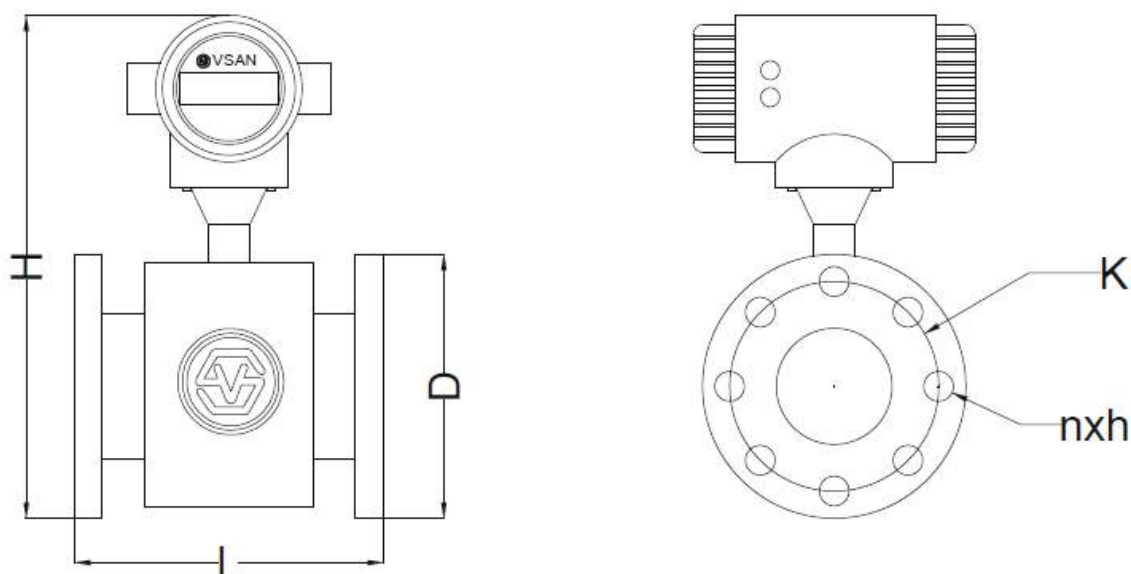
TECHNICAL SPECIFICATIONS

Size	15 to 1000 mm	Lining	PTFE , Others
Accuracy	± 0.2 , $\pm 0.5\%$	MOC	Carbon Steel, SS 304, SS 316
Conductivity	Normal Liquid $>20 \mu\text{S/cm}$ Slurry liquid $>5 \mu\text{S/cm}$	Measuring Tube	SS 304, SS316
Protection	IP 65 IP 68 (Remote Type)	Flange Class	ANSI 150#, ANSI 300#, ANSI 600#, Others
Electrode	SS316L, Hastelloy C, Hastelloy B, Titanium, Tantalum	Pressure	1.6 MPA, Others
Power	110 VAC, 230 VAC,	Temperature	-20 to 60 deg C, Others
Supply	24 VDC, Battery		
Output	4-20MA+ PULSE+RS 485 MODBUS, 4-20MA+HART, GPRS, 4-20MA+PROFITIBUS PA/DP	Velocity	0.1 m/s ~ 15 m/s

FLOW RATE CHART

SL NO	LINE SIZE (mm)	FLOW RATE (m3/hr)	SL NO	LINE SIZE (mm)	FLOW RATE (m3/hr)
1	10	0 - 3.38	13	200	0 - 1356.00
2	15	0 - 7.63	14	250	0 - 2112.00
3	20	0 - 13.56	15	300	0 - 3053.16
4	25	0 - 21.19	16	350	0 - 4155.72
5	32	0 - 34.91	17	400	0 - 5427.84
6	40	0 - 54.28	18	450	0 - 6869.64
7	50	0 - 84.82	19	500	0 - 8481.00
8	65	0 - 143.28	20	600	0 - 12212.52
9	80	0 - 217.08	21	700	0 - 16622.40
10	100	0 - 339.24	22	800	0 - 21926.40
11	125	0 - 530.16	23	900	0 - 27478.80
12	150	0 - 763.32	24	1000	0 - 34089.60

GA Drawing (# 150 Standard)



Model	L (mm)	H (mm)	D1(mm)	D2 PCD (mm)	n-ø
VSAN-MFT-15	200	295	88.9	60.45	4- ø15.7
VSAN-MFT-20	200	295	98.6	69.85	4- ø15.7
VSAN-MFT-25	200	295	108	79.25	4- ø15.7
VSAN-MFT-40	200	325	127	98.6	4- ø15.7
VSAN-MFT-50	200	340	152.4	120.7	4- ø19.1
VSAN-MFT-65	200	360	177.8	139.7	4- ø19.1
VSAN-MFT-80	200	375	190.5	152.4	4- ø19.1
VSAN-MFT-100	250	385	228.6	190.5	8- ø19.1
VSAN-MFT-125	250	425	254	215.9	8- ø22.4
VSAN-MFT-150	300	450	279.4	241.3	8- ø22.4
VSAN-MFT-200	350	515	342.9	298.5	8- ø22.4
VSAN-MFT-250	400	565	406.4	362	12- ø25.4
VSAN-MFT-300	500	615	482.6	431.8	12- ø25.4
VSAN-MFT-350	500	670	533.4	476.3	12- ø28.4
VSAN-MFT-400	600	725	596.9	539.8	16- ø28.4
VSAN-MFT-450	600	780	635	577.9	16- ø31.75
VSAN-MFT-500	600	885	698.5	635	20- ø31.75
VSAN-MFT-600	600	1005	812.8	749.3	20- ø35.1
VSAN-MFT-700	700	1160	836.68	795.27	40- ø22.35
VSAN-MFT-800	800	1260	941.32	900.18	48- ø22.35
VSAN-MFT-900	900	1360	1057.1	1009.7	44- ø25.4
VSAN-MFT-1000	1000	1460	1174.8	1120.6	44- ø28.45

(* Other Pressure standard dimension Vary)

MODEL CODE DESCRIPTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14
VSAN	MFT	15	B	A	A	A	A	A	A	A	B	A	A

1	BRAND NAME					
2	FLOW METER TYPE – ELECTRO MAGNETIC TYPE					
3	NOMINAL DIAMETER					
4	STRUCTURE					
	COMPACT	A	COMPACT FLP	AA		
	REMOTE	B	REMOTE FLP	BB		
5	ACCURACY					
	0.2%	A	0.5%	B		
6	ELECTRODE MATERIAL					
	SS 316	A	HASTALLOY	C	TANTALUM	E
	SS 316L	B	TITANIUM	D	PLATINUM	F
7	LINING					
	TEFLON / PTFE / RUBBER			A		
	OTHERS SPECIAL			B		
8	MATERIAL OF CONSTRUCTION					
	CARBON STEEL			A		
	SS 304			B		
	SS 316			C		
9	MEASURING TUBE					
	SS 304	A	SS 316	B		
10	FLANGE CLASS					
	ANSI 150#	A	ANSI 600#	C		
	ANSI 300#	B	SPECIAL	D		
11	PRESSURE MPA					
	1.6	A	4.0	B	SPECIAL	C
12	POWER SUPPLY					
	110 VAC	A	24 VDC	C		
	230 VAC	B	BATTERY	D		
13	SIGNAL OUTPUT / COMMUNICATION					
	4-20MA+ PULSE+RS 485 MODBUS	A	GPRS	C		
	4-20MA+HART	B	4-20MA+PROFITIBUS PA/DP	D		
14	PROTECTION					
	IP 65	A	IP 67	B		



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