

Insertion Magnetic Flow Meter

Simple Type series



Ball Valve Type series



Description

Vetrix Insertion Magnetic Flowmeter is designed for measurement of the velocity of liquid. It can be installed in any pipeline of internal diameter from 200mm (8in) to 3000mm (120in), through a small tapping. The complete lack of moving parts of this insertion flow sensor is the source of its reliability. There is no rotor to stop turning in dirty water and there are no bearings to wear out.

Reverse flow output are optional. A rapidly reversing magnetic field is produced in the lower housing. As the fluid moves through this field, a voltage is generated that is measured and translated into a frequency signal proportional to flow rate. This square wave signal can be sent directly to a PLC, control or converted to 4 to 20 mA

Flow Range

Diameter (mm)	Flow Rate(m ³ /h)			
	V=0.5m/s	V=1m/s	V=6m/s	V=10m/s
300	127	254	1526	2545
350	173	346	2077	3464
400	226	452	2713	4523
450	286	572	3434	5725
500	353	707	4239	7069
600	509	1017	6104	10180
700	692	1385	8308	13847
800	904	1809	10852	18086
900	1145	2289	13734	22891
1000	1413	2826	16956	28260
1200	2035	4069	24417	40694
1400	2769	5539	33234	55390
1600	3617	7235	43407	72346
1800	4578	9156	54937	91562
2000	5652	11304	67824	113040
2200	6839	13678	82067	136778
2400	8139	16278	97667	162778
2600	9552	19104	114623	191038
2800	11078	22156	132935	221558
3000	12717	25434	152604	254340

Technical Data

Diameter	200-3000mm
Velocity	0.5-6m/s
Accuracy	±2.5% FS
Liquid Conductivity	> 5 μ S/cm
Straight Pipe	5D(D means diameter) for inlet; 3D for outlet
Liquid Temperature	-20...+150°C
Ambient Temperature	-20...+60°C
Pressure	1.6Mpa
Protection	IP65(compact type) ; IP68(remote type)
Signal Output	4-20mA / Pulse
Communication	Rs485; Hart
Power Supply	110~240 V AC; Battery

Model Selection

Model	Suffix Code							Description
	1	2	3	4	5	6	7	
IM-								Insertion Magnetic Flowmeter
Diameter	XXXX							Stand for diameter 0200: DN200 3000: DN3000
Structure		S						Compact type with local display
		L						Remote type with 10 meters cable
Electrode Material			M					SS316L
			T					Titanium
			D					Tantalum
			H					Hastelloy Alloy C
			P					Platinum-Iridium
Signal output				0				No Output
				1				4-20mA / Pulse
Power Supply					-0			110-240V AC
					-1			24V DC (20-36V DC)
					-2			Battery Power Supply
Communication						0		No Communication
						1		Modbus RS485
						2		Hart
						3		GPRS
						4		Profibus DP
Connection							S	Simple Type
							B	Ball Valve Type

