



Integral Type



Split / Remote Type

Description

MAGNOS magnetic flow meter, also known as electromagnetic flow meter or mag meter, is widely used because less obstruction, cost-effective and accurate measurement. Electromagnetic flow meter don't have any moving parts to wear down, reducing the need for maintenance or replacement. We offer flowmeters with a range of liners, electrodes, and sizes, which can meet various conductive liquids.

Industries

- Effluent Treatment Plant
- Sewage Treatment Plant Water Supply Scheme
- Textile Processing Industries
- Steel & Aluminum Industries
- Chemical & Fertilizer Industries
- Dairy Industries
- Sugar Industries

Applications

- Raw Water
- Potable water
- Waste water
- Cooling water
- Sea Water
- Brine Solutions
- Pulp & Beverages Acidic & Alkaline solution
- Heat Exchanger Industrial

Features

- High accuracy : $\pm 0.5\%$ of reading, $\pm 0.2\%$ optional
- Velocity : 0.1 – 15m/s
- Ambient Temperature : $-25^{\circ}\text{C} - 60^{\circ}\text{C}$
- Electrode material : SUS316L (Optional : Titanium, Tantalum, Tungsten Carbide, Hastelloy B, Hastelloy C)
- Liner Material : Polytetrafluoroethylene (PTFE) , (Optional : PFA, Neoprene (rubber) , Polyurethane, F46)
- Protocol : Alarm
- Material Housing : Carbon steel
- Flange Connection : PN 16 (Optional : Jis 10K, Ansi 150, PN 40)
- Power Supply : AC 220 V
- Protection Grade : IP 65
- Signal output : Analog output 4-20 mA , Communication RS 485

Main Performance of Electrode Material

Electrode Material	Application
SS316L	Applicable to industrial / municipal water, wastewater and low corrosive mediums. Widely used in petroleum, chemical industries.
Hastelloy B	Strong resistance to hydrochloric acids below the boiling point. Resist against oxidable acids, alkali and non-oxidable salts, like vitrol, phosphate, hydrofluoric acids and organic acids.
Hastelloy C	Exceptional resistance to strong solutions of oxidizing salts and acids, like Fe ⁺⁺⁺ , Cu ⁺⁺ , Nitric acids, mixed acids.
Titanium	Titanium can withstand corrosive medium such as seawater, chloride salt solution, hypochlorite salts, oxidable acids (including fuming nitric acids) organic acids, and alkali. Not resistant to high purity reducing acids such as sulphuric acids, hydrochloric acids.
Tantalum	Highly resistant to corrosive mediums. Applicable to all chemical mediums except hydrofluoric acids, oleum and alkali.
Platinum Iridium	Applicable to all chemical mediums except for ammonium salts and fortis.

Main Performance of Liner Material

Electrode Material	Application
PTFE	Best chemical resistance, withstand boiling hydrochloric acid, sulfuric acid, nitric acid, alkali and a variety of organic solvents. Poor wear resistance and poor adhesion.
PFA	Highly resistant to chemical. Performance well under vacuum pressure condition.
Neoprene	Excellent elasticity, good abrasion resistance. Withstand the corrosion of low-concentration acid, alkali, salt and other media. Not resistant to corrosion by oxidizing medium.
Polyurethane	Strong abrasion resistant, applicable for slurries and muds. Poor corrosion resistance, can't be used for corrosive medium.
Hard Rubber	Withstand the corrosion of hydrochloric acid, acetic acid, oxalic acid, ammonia water, phosphoric acid and 50% sulfuric acid, sodium hydroxide, potassium hydroxide. Use for general acid, alkali, and salt solution, not resistant to the corrosion of strong oxidants.
Ceramic	Withstands high temperature, corrosions and wear smooth inner totally vacuum resistant.

Flow Range Table

Size		Flow Range & Velocity table							
mm	Inch	0.1m/s	0.2m/s	0.5m/s	1m/s	4m/s	10m/s	12m/s	15m/s
DN15	½"	0.064	0.127	0.318	0.636	2.543	6.359	7.63	9.538
DN20	¾"	0.113	0.226	0.565	1.13	4.522	11.304	13.56	16.956
DN25	1"	0.177	0.353	0.883	1.766	7.065	17.663	21.2	26.494
DN32	1 ¼"	0.289	0.579	1.447	2.894	11.575	28.938	34.73	43.407
DN40	1 ½"	0.452	0.904	2.261	4.522	18.086	45.216	54.26	67.824
DN50	2"	0.707	1.413	3.533	7.065	28.26	70.65	84.78	105.9
DN65	2 ½"	1.19	2.39	5.97	11.94	47.76	119.4	143.3	179.1
DN80	3"	1.81	3.62	9.04	18.09	72.35	180.86	217	271.3
DN100	4"	2.83	5.65	14.13	28.26	113.04	282.6	339.1	423.9
DN125	5"	4.42	8.83	22.08	44.16	176.63	441.56	529.9	662.34
DN150	6"	6.36	12.72	31.79	63.59	254.34	635.85	763	953.78
DN200	8"	11.3	22.61	56.52	113.04	452.16	1130.4	1356	1696
DN250	10"	17.66	35.33	88.31	176.53	706.5	1766.25	2120	2649
DN300	12"	25.43	50.87	127.2	254.34	1017	2543.4	3052	3815
DN350	14"	34.62	69.24	173.1	346.19	1385	3461.85	4154	5193
DN400	16"	45	90	226.1	452	1809	4522	5426	6782
DN450	18"	57	114	286.1	572	2289	5723	6867	8584
DN500	20"	71	141	353.3	707	2826	7065	8478	10598
DN600	24"	102	203	508.7	1017	4069	10174	12208	15260

Dimension and Weight

Size	Nominal Pressure (mpa)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
DN 15	1.6	200	95	290	11
DN 20	1.6	200	105	300	13
DN 25	1.6	200	110	310	15
DN 40	1.6	200	150	330	17
DN 50	1.6	200	165	330	18
DN 65	1.6	250	185	355	26
DN 80	1.6	250	200	350	30
DN 100	1.6	250	253	380	31
DN 125	1.6	250	-	-	-
DN 150	1.6	300	300	450	42
DN 200	1.6	350	340	505	46
DN 250	1.6	450	405	560	51
DN 300	1.6	500	460	610	61
DN 350	1.6	500	520	670	146
DN 400	1.6	500	580	725	181
DN 450	1.6	550	640	775	216
DN 500	1.6	550	715	830	246
DN 600	1.6	600	840	940	336

