Sanitary magnetic flow meter

INTRODUCTION:

The sanitary flowmeter adopts PTFE lining material to meet the hygienic requirements of the food industry. It adopts stainless steel structure and stainless steel clamp connection. It is convenient for quick disassembly and cleaning of electromagnetic flowmeter.

FUNCTION:

- ♦ Measure instantaneous flow and cumulative flow.
- ♦ Flow limit setting.Flow Range setting.
- ♦ Lower limit of flow alarm.Flow limit alarm.
  Anti radio interference function.Pipeline empty pipe alarm.
- ♦ Instrument failure alarm.
- ♦ Total flow is recorded in hours/minutes/seconds.
- ♦ Output: pulse signal, output current signal.
- ♦ Transmit the collected data to the operating system or automatic control system through communication cable or wireless mode.
- ♦ Two way measurement system, forward total amount, reverse total amount and difference total amount, can display positive and reverse flow.

APPLICATION:

- ☑ Food processing
- ☑ Biotechnology/pharmaceutical
- ☑ industry
- ☑ Beverage industry
- ☑ Clean drug cleaning solutions
- ☑ Milk

SPECIFICATION :

Nominal Dia (mm)	DN 15~DN 100
Accuracy	± 0.2%, ± 0.3%,±0.5%(flowrate<1m/s) .Optional
Measuring Range	0.5m/s~10m/s
Conductivity of medium	more than 5μS/cm
Display Unit	Standard Unit in M3, Litre
Process Temperature	-20°C~80°C
Process Pressure	1.6MPa~4.0MPa,(Optional)
Sensor Protection Class	IP65,IP67,IP68.Optional
Flow Tube Material	SS316,SS304(Optional)
Material of Construction	SS304/SS316L
Electrode Material	SS316L, Hastelloy B/C, Tantalum,Ti,Platinum iridium alloy.etc.
Liner material	PTFE,ceramics.
Power Supply	AC220 V/DC24 V/DC3.6V
Output	Std. 4 – 20 mA,0Hz~5kHz
Installation	Tri-Clamp
Communication	Std RS485,RS485 Modbus RTU (RS232,MODBUS,HART,PROFIBUS-DP,Optional)
Display	LCD Display
Version	Smart /Remote

ELECTRODE MATERIALS:

Electrode	Application
SS316L	Nitric acid, sulfuric acid with concentration <5% at room temperature, weak acid, alkali solution, sulfite under certain pressure, sea water, acetic acid and other media have strong corrosion resistance.
Hastelloy B Hastelloy C	It can resist the corrosion of oxidizing acids, such as nitric acid, mixed acid, or mixed medium of chromic acid and sulfuric acid, and also can resist the corrosion of oxidizing salts, such as fe++, cu++. Or hypochloric acid and alkali, seawater
Titanium	It is resistant to the corrosion of seawater, various chlorides, hypochlorites, chlorinated acids, organic acids, alkalis, etc., and is not resistant to the corrosion of relatively pure reducing acids (such as sulfuric acid and hydrochloric acid)
Tantalum	Excellent corrosion resistance. Except hydrofluoric acid, fuming sulfuric acid and alkali, it can resist the corrosion of almost all chemical media (including hydrochloric acid, nitric acid with boiling,oint and sulfuric acid below 175 ℃), but it is not resistant to corrosion in alkali.
Platinum-iridium	Good corrosion resistance to acid, alkali and various salts, But not resistant to nitromurlatic acid corrosion
Stainless steel coated with tungsten carbide	For non corrosive and strong abrasive media

LINER MATERIALS :

Liner materials	Application
Soft rubber (DN50~DN3000) Hard rubber(DN50~ DN3000)	0 °C ~ 80 °C non strong acid, strong alkali and strong oxidizing medium Masurable sewage and mud
PTFE (≤DN1000)	1.-25°C~140°C 2. Strong corrosive media such as concentrated acid and alkali 3. Sanitary media
Polyurethane (≤DN300)	1.-25°C~60°C 2. Neutral strong wear mineral slurry, coal slurry and slurry
PFA(≤DN250)	1.-25 °C ~ 140°C non strong wear medium 2. sanitary media
P46(≤DN250)	1.-25 °C ~ 100°C non strong wear medium 2. sanitary media

SELECTION TABLE:

Model	SDLD-F	□□□	□□	3	□	□	□	□	□	□	□	□	□	1
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Caliber	DN15-DN100	eg:015 means DN15												
Flang standard /	0.25Mpa		02											
	0.6MPa		06											
	1.0MPa		10											
	1.6MPa		16											
	ANSI 150		20											
	4.0MPa		40											
	ANSI 300		50											
	JIS 10K		91											
	JIS 20K		92											
	Customization		XX											
Liner materials	Soft rubber (DN50~DN3000)			1										
	Hard rubber(DN50~ DN3000)			2										
	PTFE (≤DN1000)			3										
	Polyurethane (≤DN300)			4										
	PFA(≤DN250)			5										
	F46(≤DN250)			6										
	Ceramics(DN50~ DN150)			7										
Electrode Material	Stainless steel 316L				1									
	Hastelloy C				2									
	Hastelloy B				3									
	Titanium				4									
	Tantalum				5									
	Platinum-iridium				6									
	Stainless steel coated with tungsten carbide				7									
	Conductive ceramics				8									
Grounding and lining protection	Grounding screws					0								
	Grounding rings					1								
	Grounding electrodes					2								
	Inlet protection flange					3								
Materials temperature	≤80°C						A							
	≤120°C						B							
	≤180°C						C							
Protection Grade	IP65							1						
	IP67							2						
	IP68							3						
	IP65+Ex d ib mb IIC T4 Gb							4						
Structure	Integrated								C					
	Seperated								R					
Power Supply	85~265VAC/45~63Hz									A				
	16~36VDC									D				
	3.6VDC									B				
Display	LCD										1			
	OLED										2			
Signal Output And Communication	4~20 mA+ Pulse+alarm (standards)											0		
	4~20 mA+ Pulse+alarm+RS232											2		
	4~20 mA+ Pulse+alarm+RS485											4		
	4~20 mA+ Pulse+alarm+MODBUS											M		
	4~20 mA+ Pulse+alarm+HART											H		
	4~20 mA+ Pulse+alarm+Profibus+DP											P		
Calibration	±0.5% three flow												1	
	±0.2% five flow												2	
	±0.5% five flow												3	
	Standard												X	
Shell Material	Carbon steel													0
	Stainless steel 304													1

PLEASE CONTACT US FOR MORE INFORMATION AND SOLUTIONS.

Shengda Water Meter since 1995

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