

MEF-8400

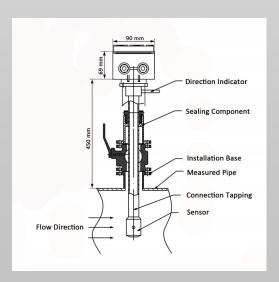
Marmonix Flange Ball Valve Insertion Electromagnetic Flow Meter

Overview:

Marmonix Flange Ball Valve Insertion
Electromagnetic Flow Meter MEF-8400 is
hallmarked by its high performance and reliability
based on successful, field-proven technology. It is
being widely used in industries such as petroleum,
chemical engineering, iron and steel, food, electric
power, paper making, water treatment,
petrochemical, medicine etc.

Application:

- Chemical
- Medicine
- Beverage
- Iron and steel
- Water supply
- Electric power
- Water treatment



Features:

- Medium temperature can be -20 °C ~80 °C .
- Integrated verification, diagnostic function and empty pipe detection.
- Measure forward and reverse direction flows.
- Easy to install and it can be installed without shutting down the process.
- Dual frequency excitation and stable zero point.
- Precision coil winding technology, makes magnetic field more uniform.
- High protection grade, IP65, IP68.
- No moving parts, no pressure loss





SPECIFICATION

Size	DN100-DN3000mm (4"~120")					
Accuracy	±1.5% of reading, velocity >0.3 m/s					
Velocity	Normal liquid >5 μS/cm,DI water >20 μS/cm					
Protection Grade	IP65 (Integrated),IP68 (seperate)					
Power Supply	AC85~250V, DC20V~36V					
Power Consumption	<15W					
Communication	RS485/Modbus ,Hart over 4~20 mA, Hart ,Profitbus					
Language	English ,Chinese (Other languages also can be provided on request)					
Display	LC Display,128X128mm, Three lines, 4 internal push buttons					
Ambient Temperature	-25 ~ +60 °C /-77 ~ 140 °F Sensor -10~ +60 °C /-50~140 °F Convertor					
Relative Humidity	5%~95%					
Liquid Temperature	-20°C-80°C (-68°F∼176°F)					
Velocity	0.1 m/s ~ 15 m/s					
Max Distance	50m (sensor and transmitter)					
Working Pressure	≤1.6 MPa					
Flange Standard	DN40,PN16					
Connection	Simple,Flange ball Valve,Thread Ball Valve					
Signal Output	4~20 mA, Pulse					
Grounding Resistance	<10Ω					
Cable Entry	M20*1.5					
Transmitter Housing Material	Aluminum					
Probe	ABS					
Exciting Current	125mA, 187mA, 250mA, 500mA					
Exciting Frequency	25Hz, 3.125Hz, 2.5Hz, 2Hz					
Electrode Material	SS316L, Hastelloy C, Hastelloy B, Titanium Tantalum, Platinoiridium, Stainless Steel Covered Tungsten carbide					
Body Material	Stainless Steel 304 Stainless Steel 316					
Straight Pipe	Upsteam Required Single bend preceded by ≥ 9 diameters of straight pipe 10 D Pipe size reduction / expansion in straight pipe run 10 D Single bend preceded by ≤ 9 diameters of straight pipe 15 D Outflowing tee / Pump outflow 20 D Multiple bends out of plane 30 D Inflowing tee 30 D Control / Modulating valve 30 D Downstream Required 5 D					



Selection Table

Selection Table for Insertion Electromagnetic Flow Meter												
Model	XXX	X	X	Χ	Χ	Χ	Χ	Χ				
Caliber Size	DN100-DN3000mm						Т					
Nominal pressure	1.6Mpa	3										
	Other	5										
Install Connection	Flange ball valve			1								
	Thread ball valve			2								
Sensor probe	ABS 1				1							
material	Polypropylene 2											
Electrode 316L								1				
	Hastelloy B					2	2					
	Hastelloy C 3											
Structure type	Integral type 1											
	Remote type								2			
Power Supply	220VAC 50HZ									Е		
	24VDC									G		
Output/ Communication	Flow volume 4~20m ADC/pulse										А	
Communication	Flow volume 4~20m ADC/RS232C Communication										В	
Flow volume 4~20m ADC/RS485 Communication Flow volume HART output/with communication							С					
							D					
Converter figure	Square					А						
Circular						В						



Performance of Electrode

Electrode Material	Applications The second sec
Stainless Steel 316L	Applicable in water, sewage and corrosive mediums. Widely used in industries of petrol, chemistry, carbamide, etc
Hastelloy B (HB)	Having strong resistance to hydrochloric acid of any consistance which is below bioling piont. Also resistable against vitriol, phosphate, hydrofluoricacid, organic acid etc which are oxidable acid, alkali and non-oxidable salt.
Hastelloy C (HC)	Be resistant to oxidable acid such as nitric acid, mixed acid, as well as oxidable salt such as Fe+++,Cu++a Stnd sea water
Titanium	Applicable in seawater, and kinds of chloride, hypochlorite salt, oxidable acid (including fuming nitric acid), organic acid, alkali etc. Not resistant to a pure reducing acid (such as sulphuric acid, hydrochloric acid corrosion. But if acid contains antioxidant is greatly reduce corrosion.
Tantalum	Having strong resistance to corrosive mediums that is similar with glass Almost is applicable to all chemical mediums. Except for hydrofluoric acid,oleum and alkali.
Platinum-iridium	Almost be applicable in all chemical mediums except for ammonium salt.
Stainless Steel Covered Tungsten Carbide	Applicable in mediums of no corrosive and low abrasion.



