QTLD/ Electromagnetic Flow Meter

DN100-DN3000mm / Insertion Type

Description

Insertion electromagnetic flow meter is a new fluid flowmeter developed based on pipe-type electromagnetic flowmeter. Besides preserving the merits of pipe-type electromagnetic flowmeter and considering such defects of pipe-type electromagnetic flowmeter as difficult installation on large pipes and high cost, after technologies of hot tapping and installation under pressure are applied, the insertion electromagnetic flowmeter can be installed without conducting shutdown or cutting off water supply as well as on cast iron pipe or cement pipe.

Benefit

- Medium temperature :Max.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.
- ♦ High accuracy: ±1.5% of reading

Standard Specification

- Size : DN100-DN3000mm
- Accuracy : ±1.5% of read,velocity >0.3 m/s
- Velocity :>20 µS/cm
- Protection Grade : IP65,IP68
- Electrode : SS316L,Hastelloy C,Hastelloy B,
- Power Supply : AC85~250V, DC20V~36V
- Power Consumption : <15W
- Communication : RS485/Modbus,Hart,Profitbus



Language

: English

Other language can be available

Flange Ball Valve Type

Display : LCD Display,128X128mm

ant

Three lines

4 internal push buttons

Ambient Temperature : -25°C~60°C

Thread Ball Valve Type

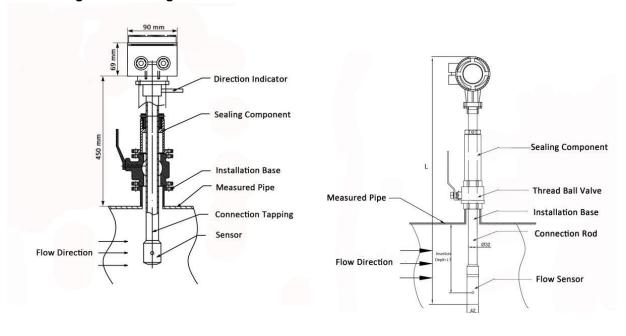
• Relative Humidity : 5%~90%

		Straight Pipe	: Inlet Path ≥ 10D
Velocity	: 1 m/s ~ 10 m/s		Outlet Path ≥ 5D
Max Distance	: 200m (sensor/ transmitter)	Connection	: Thread Ball Valve,
Working Pressure	: ≤1.6 MPa		Flange ball Valve
Flange Standard	: DN50,PN16	Signal Output	: 4~20 mA (Current)
• Transmitter Housing	: ABS, Polypropylene		0~5 KHz (Frequency)
Body Material	: Carbon Steel (standard)	Grounding Resistance	: < 10 Ω
	SS 304 (optional)	Cable Entry	: M20*1.5
	SS 316 (optional)		

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Drawing Insertion Magnetic Flow Meter



Flange Ball Valve Separated Insertion Type

Thread Ball Valve Integrated Insertion Type

Measuring Tube/Sensor: It's used to measure the velocity of medium, two electrodes are installed in it.

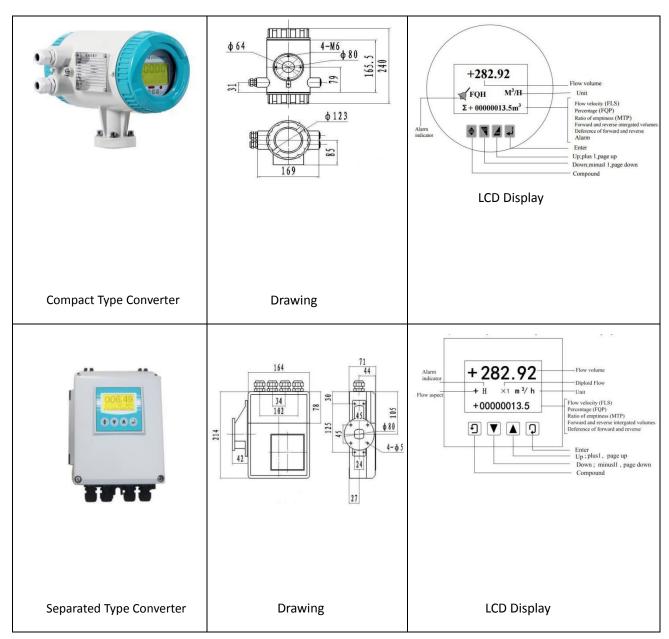
Exciting System: It can produce magnetic field, it is composed by exciting coils and iron core, it is sealed in the measuring tube.

Connection Rod: Measuring tube is fixed in it.

Installation Base: It will be welded in the measuring pipe.

Specif	fications			
Pipe Size	Length(L)	Insertion Length L1		
DN≤200	≤200 693mm			
400≥DN≥250	793mm	$\frac{1}{2}$ DN		
1200≥DN>400	893mm	$\frac{1}{4}$ DN		
2000≥DN>1400	1093mm	4		

Seal Component: Consists of screw seat, nut, rubber washer and dog screw.



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Selection Table electromagnetic flow meter (Separated type,flange connection)

	Selection Table for Inser	tion Ele	ectromag	gnetic Fl	ow Mete	r				
Model	QTLD	ххх	х	х	х	х	х	х		х
Caliber Size	DN100-DN3000mm									
Nominal pressure	1.6Mpa	3								
	Other	5								
Install Connection	Flange ball valve		1							
	Thread ball valve		2							
Sensor probe	ABS			1						
material	Polypropylene			2						
Electrode	316L				1					
	Hastelloy B 2									
	Hastelloy C 3									
Structure type	Integral type 1									
	Remote type 2									
Power Supply	220VAC 50HZ					E				
,	24VDC						G			
	Flow volume 4~20m ADC/pulse						A			
Output/Communication	Flow volume 4~20m ADC/RS232C Communication							В		
	Flow volume 4~20m ADC/RS485 Communication							С		
	Flow volume HART output/with communication							D		
Converter figure	Square							A		
	Circular							В		