XYTFL Type Turbine Flowmeter



Product Features

- High precision, generally up to \pm 0.5% R a nd \pm 1.0% R (R refers to reading error);
- Good repeatability, short-term repeatability can reach 0.2% to 0.05%, and high accuracy can be achieved through regular calibration or online calibration;
- Output pulse frequency signal, suitable for total measurement and computer connecti on, no zero drift, strong anti-interference ab ility;
- The original pulse frequency range (10.0Hz ~1.5kHz) has strong signal resolution;
- Wide range ratio, generally 1:10, up to 1:15;
- Compact and lightweight structure, easy in stallation and maintenance, and high circula tion capacity;
- Suitable for high voltage measurement, the e sensor body does not need to be perforated and is easy to make into a high voltage type instrument;
- Strong resistance to electromagnetic interference and vibration;
- Low pressure loss, saving power consumpt ion.

Overview

XYTFL turbine flowmeter is a speed type instrument, which has the advantages of high accuracy, good repeatability, no zero drift, and high range ratio. Turbine flow meters have high -quality bearings and specially designed flow deflectors, which greatly reduce wear, are insensitive to peak values, and can provide reliable measurement variables even under harsh conditions. The output signal of the turbine flowmeter is pulse, which is easy to digitize. Turbine flowmeter has low pressure loss and blades (dual phase) Steel can resist corrosion and measure low viscosity and low corrosiveness liquid media.

Product Appearance



Flange installation type



Threaded installation type



Flange clamp type

Application Area

The application of turbine flowmeter flow measurement technology and instruments can be roughly divided into the following fields: petroleum, chemical, metallurgical, organic liquids, inorganic liquids, liquefied gas, urban gas pipeline network, pharmaceutical, food, paper and other industries.

Performance Index

Measured media	no impurities, low viscosity, no highly corrosive liquids				
Execution standards	Turbine Flow Sensor (JB/T 9246-2016)				
Verification regulations	Turbine Flow Sensor (JJG 1037-2008)				
Instrument	Flange type	DN15 ~ DN200			
caliber and Connection	Threaded type	DN4 ~ DN50			
method	Clamp type	DN15 ~ DN50			
	Clamp on type	DN4 ~ DN200			
Flange standard	Conventional standards	HG/T 20592-2009			
	Other standards	International pipe flange standard	Such as German standard DIN,(customization required)		
		Domestic pipe flange standards		standards of the Ministry of Chemical nd the Ministry of Machinery (to be	
Thread	Regular size	British pipe thread (external thread)			
specification	Other size	Internal thread, spherical thread, NPT thread, etc. (customization required)			
Accuracy		±1%R	±0.5%R		
Repeatability	≤ ±0.15%		≤ ±0.1%		
Range ratio	1 : 10				
Verification	verification device	Standard table method liquid flow verification device; Static mass method liquid flow verification device			
conditions	environmental	ambient temperature	20°C		
		relative humidity	65%		
Conditions of Use	medium temperature	T ₁ (Room temperature type, standard configuration)	-20℃~ 80℃		
		T₂(High temperature type, customized)	-20℃~ 120℃		
	ambient temperature	-20°C~ 60°C	relative humidity	5% ~ 90%	
	atmospheric pressure	86kPa ~ 106kPa			

Comparison Table of Voltage Resistance Levels

Connection method	Caliber range	Conventional voltage withstand level	High voltage withstand level
Flange type	DN15 ~ DN50	4.0MPa	4.0MPa ≤ P ≤ 10.0MPa
Flange type	DN65 ~ DN100	1.6MPa	1.6MPa ≤ P ≤ 6.3MPa
	DN125 ~ DN200	I.OIVIPA	1.6MPa ≤ P ≤ 2.5MPa
Threaded type	DN4 ~ DN40	6.3MPa	6.3MPa ≤ P ≤ 32MPa
	DN50 ~ DN80	1.6MPa	
Clamp on type	DN4 ~ DN40		42MPa and following
	DN50 ~ DN80	1 CMDa	26MPa and following
	DN100 ~ DN150		15MPa and following
	DN200		11MPa and following

Caliber Flow Range Pressure Loss Comparison Table

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Instrument caliber	Normal flow range	Pressure loss	
mm	m3/h	MPa	
DN4	0.04 ~ 0.25	0.12	
DN6	0.1 ~ 0.6	0.08	
DN10	0.2 ~ 1.2	0.05	
DN15	0.6 ~ 6		
DN20	0.8 ~ 8	0.035	
DN25	1 ~ 10		
DN32	1.5 ~ 15		
DN40	2 ~ 20		
DN50	4 ~ 40		
DN65	7 ~ 70		
DN80	10 ~ 100	0.025	
DN100	20 ~ 200		
DN125	25 ~ 250		
DN150	30 ~ 300		
DN200	80 ~ 800		