

SANITARY TURBINE FLOWMETER

For Reliable Sanitary Liquid Measurement



New High-tech
Enterprise



CE



Ex-proof



ISO

APPLICATION



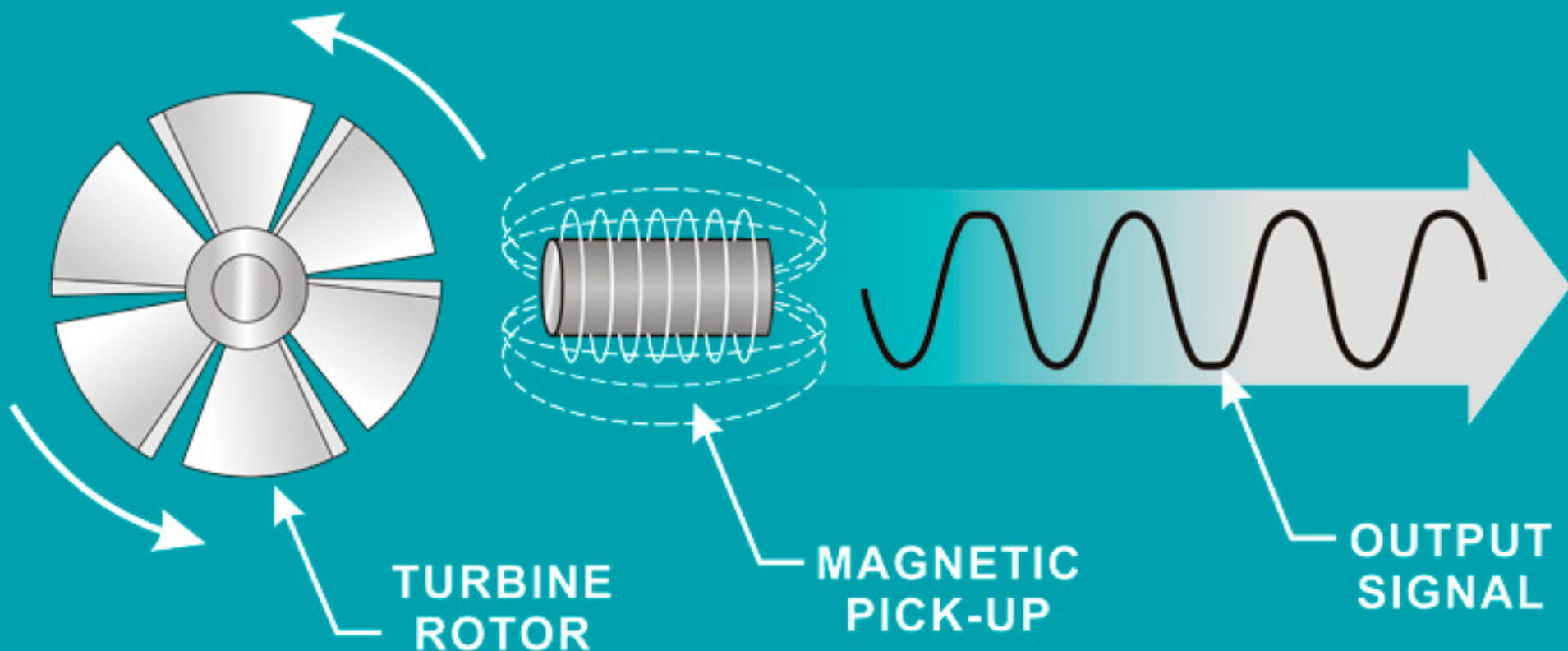
WHAT IS A LIQUID TURBINE FLOWMETER?

Turbine Flow Meter is a volumetric measuring turbine type. The flowing fluid engages the rotor causing it to rotate at an angular velocity proportional to the fluid flow rate.

The angular velocity of the rotor results in the generation of an electrical signal (sine wave type) in the pickup.

The summation of the pulsing electrical signal is related directly to total flow. The frequency of the signal relates directly to flow rate.

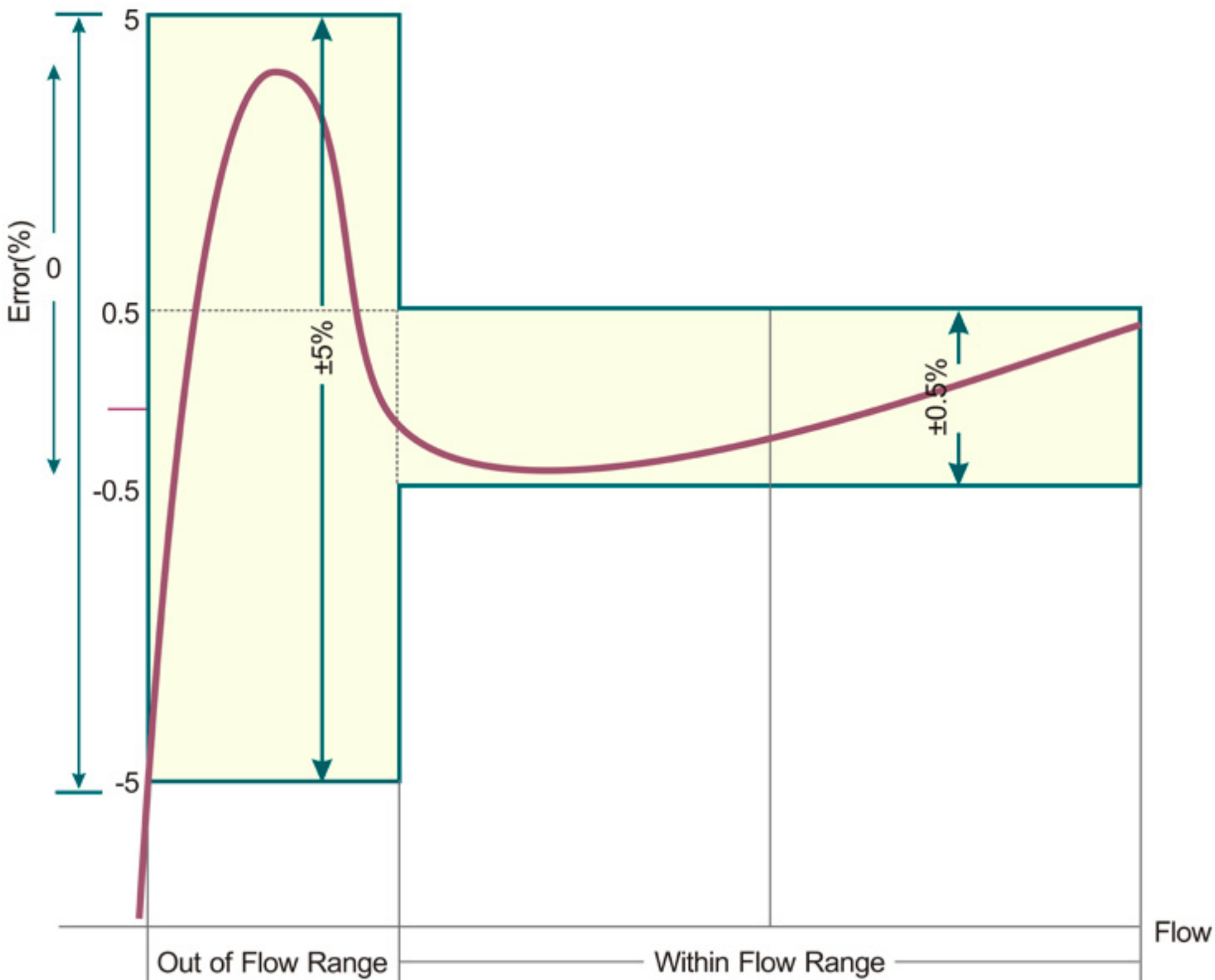
● Turbine Flow Meter



HIGH PRECISION

EVERY DROP IS PRECIOUS

0.5% Accuracy(0.2% Optional)



PRODUCT FEATURES

01

Food Grade Material
Standard SS304 (SS316 optional)
High Temperature Disinfection is Allowable



**MAX.
150°C**



02

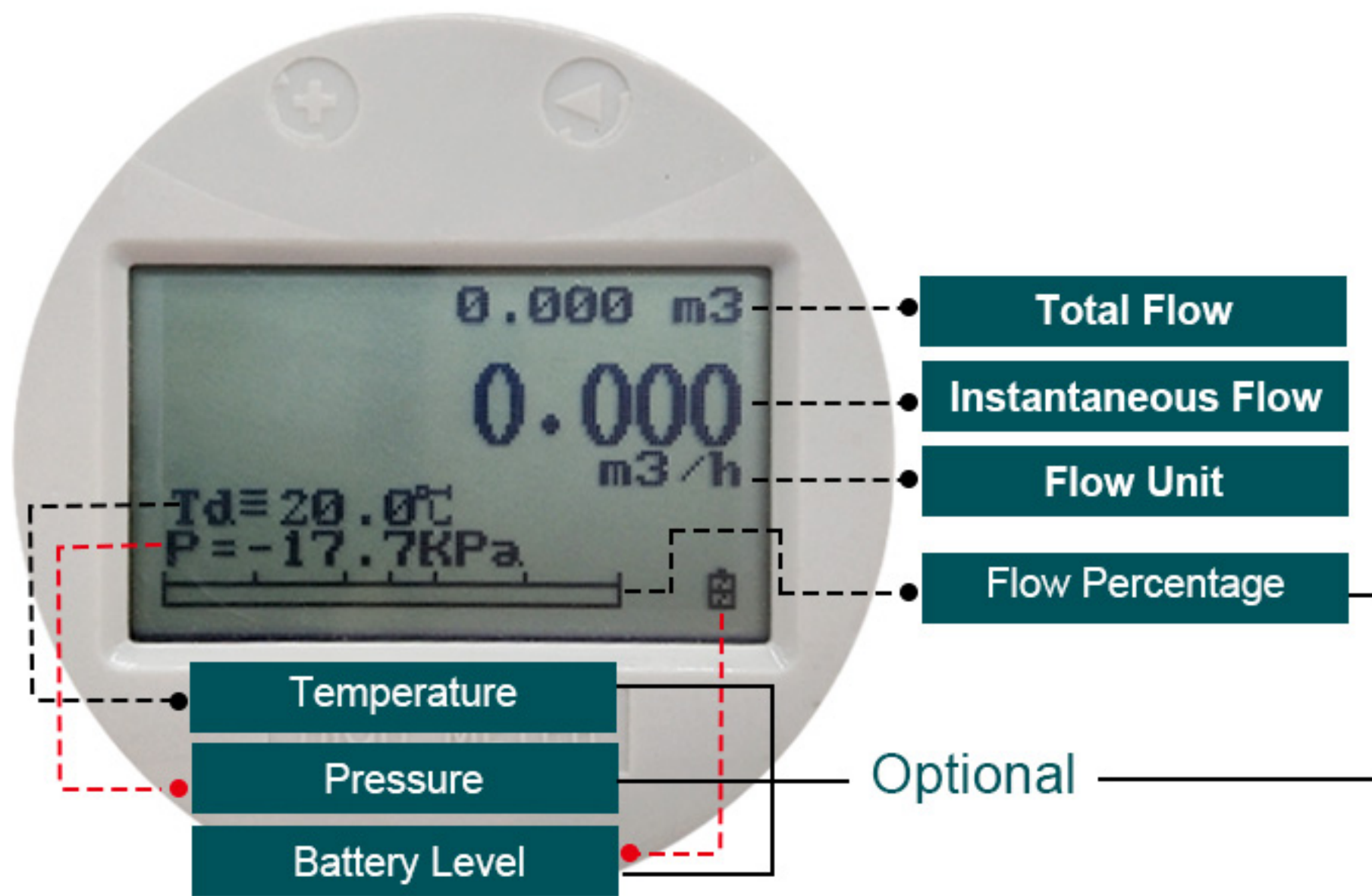
Simple Structure Easy Installation and Maintenance



Tighten or loose
the screws to install
or dismantle

03

Three Line HD LCD Display



- 1 Low-Power Design LCD
- 2 Multi-unit free switching, on-site display and analysis

Flow Unit: L, gallon, m³, kg, pound, ton, etc

Time Unit: Hour and Minute

04

Intelligent Transmitter

360°

Rotate Converter,
All-dimensional
Data Observation

Filter & Trigger Gate
Anti-interference

Modular Design,
Convenient for
Maintenance

Dual Power
Supply (Optional)
DC3.6V Battery
+DC24V

Various Outputs

Pulse

4-20mA

RS485

HART



05 Flow Sensor



SS304 Material
Optional SS316
Excellent Forging process



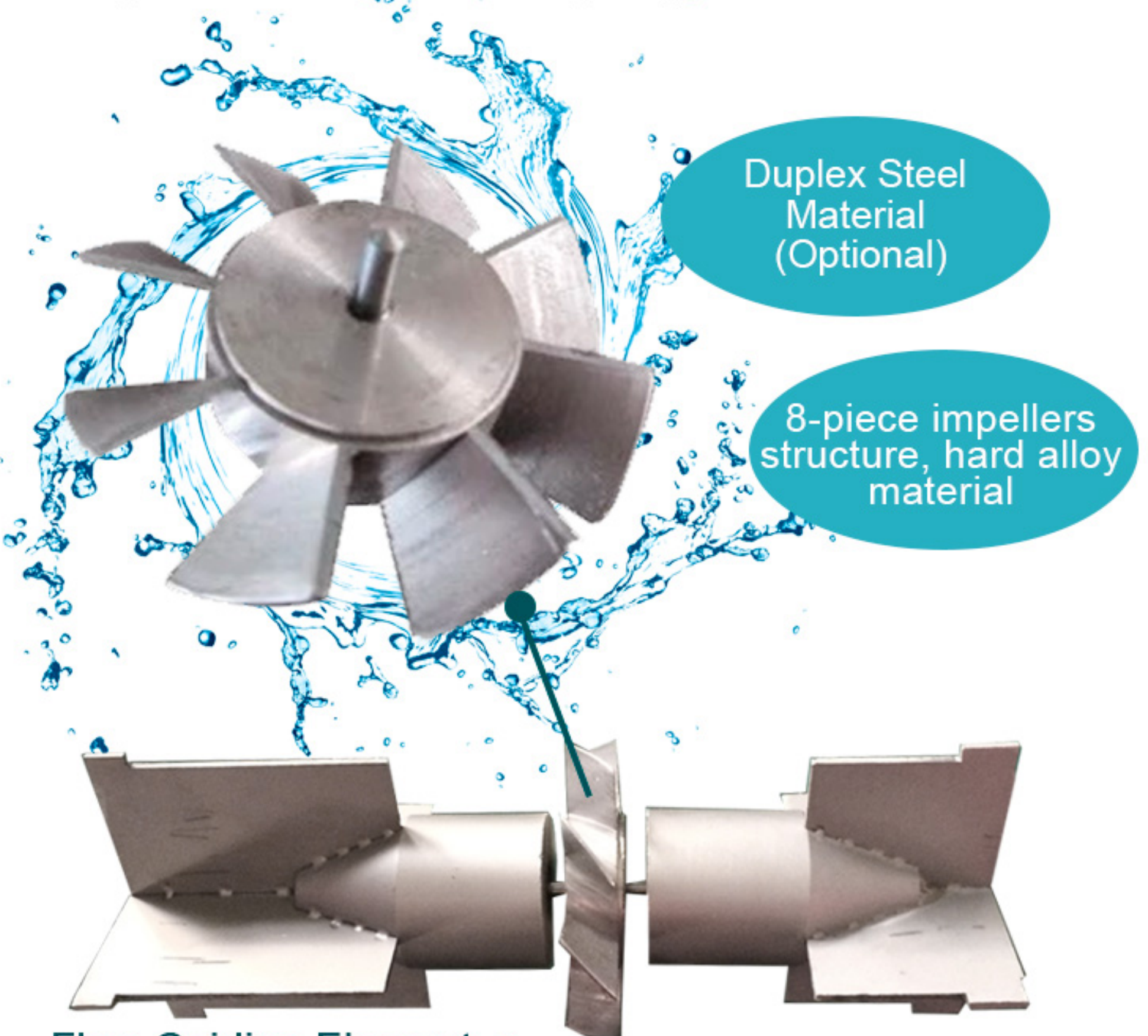
Resist High Temperature
up to 150 °C



Wear Resistance,
Durable life, Anti-rust



Integrated Precision Milling Impeller



Duplex Steel
Material
(Optional)

8-piece impellers
structure, hard alloy
material

Flow Guiding Element ●

- Stabilizing the flow and minimizing negative effects of turbulence

DN4~DN25: 4-pieces impellers;
Above DN40: 8-pieces impellers

DN32: 6-pieces impellers;

06

Pick-up Sensor

24V+
24V-

24V+ 24V-
Pulse



Two Wire DC4-20mA



Three Wire Pulse

PREAMPLIFIER



FLOWMETER
Pickup coil generates frequency proportional to flow rate

PULSE COUNTER or **BATCHING SYSTEM**
Counts pulses and indicates total flow
Gives electrical output for batching operation

RS485 OUTPUT

PRINTER

4-20mA OUTPUT

STRIP CHART RECORDER

PULSE OUTPUT

REMOTE TOTALIZER

ALARM OUTPUTS

AND MORE

MORE PRODUCTS SHOW



PRODUCT PARAMETER

Technical Parameters

Size	DN4,6,10,15,20,32,40,50,65,80
Accuracy	±0.5% (±0.2% Optional)
Sensor Material	SS304 (SS316L Optional)
Ambient Conditions	Medium temperature:-20°C~+150°C; Atmospheric pressure:86Kpa~106Kpa Ambient temperature:-20°C~+60°C; Relative humidity:5%~90%
Signal Output	Pulse, 4-20mA
Digital Communication	RS485, HART
Power Supply	24V DC/3.6V Lithium Battery
Cable Entry	M20*1.5; 1/2"NPT
Explosion-proof class	Ex d IIC T6 Gb
Protection class	IP65

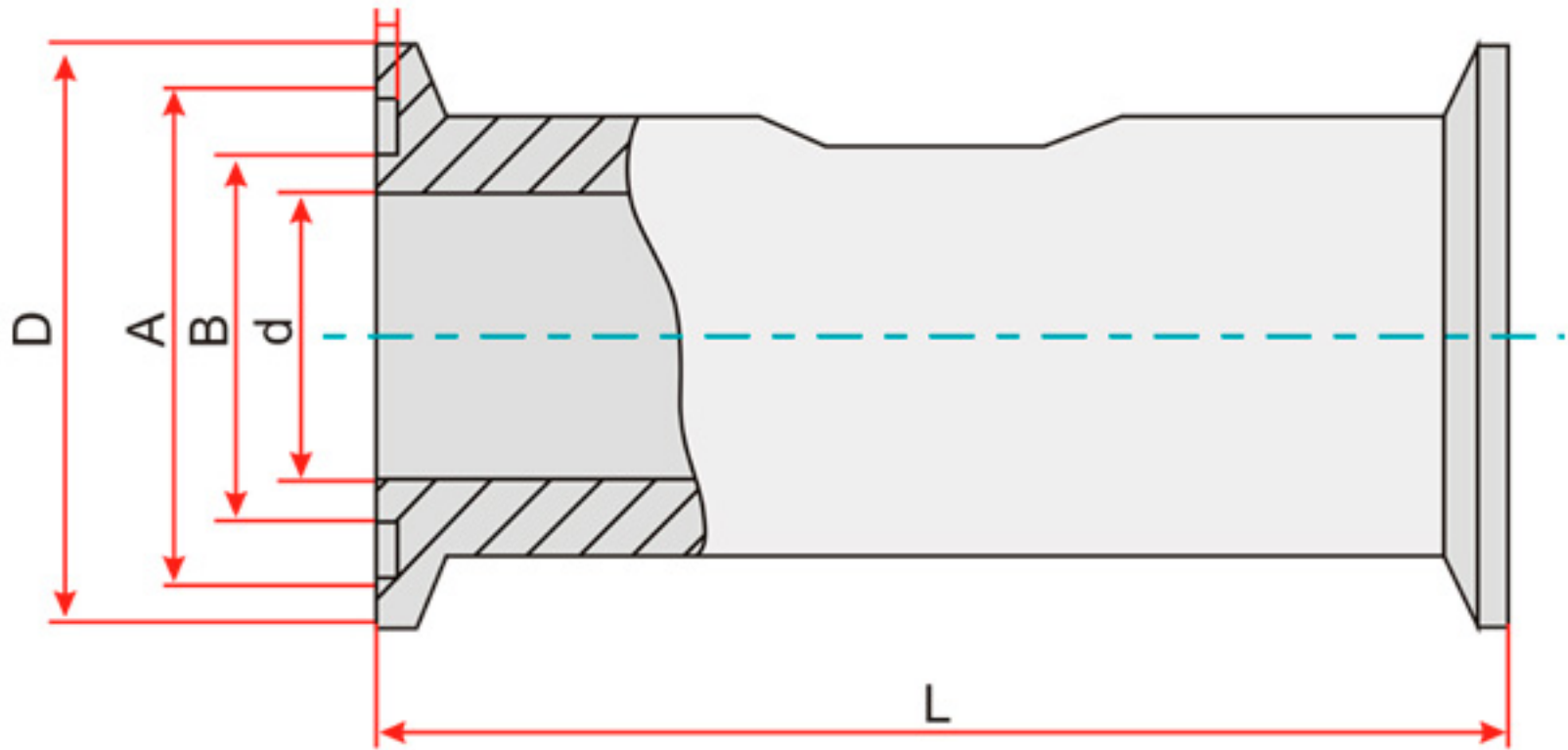
Flow Range

Diameter (mm)	Standard Range (m ³ /h)	Extended Range (m ³ /h)	Standard Pressure (Mpa)
DN4	0.04~0.25	0.04~0.4	1.6
DN6	0.1~0.6	0.06~0.6	1.6
DN10	0.2~1.2	0.15~1.5	1.6
DN15	0.6~6	0.4~8	1.6
DN20	0.8~8	0.45~9	1.6
DN25	1~10	0.5~10	1.6
DN32	1.5~15	0.8~15	1.6
DN40	2~20	1~20	1.6
DN50	4~40	2~40	1.6
DN65	7~70	4~70	1.6
DN80	10~100	5~100	1.6

Model Selection

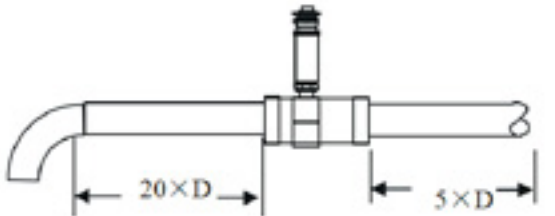

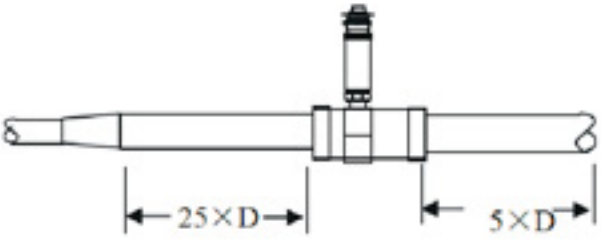
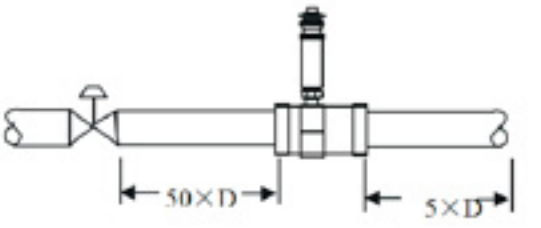
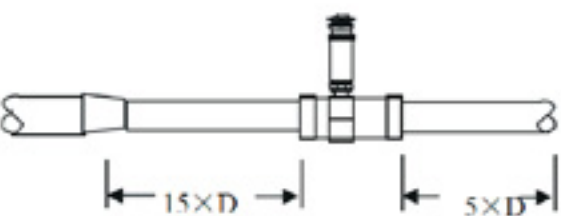
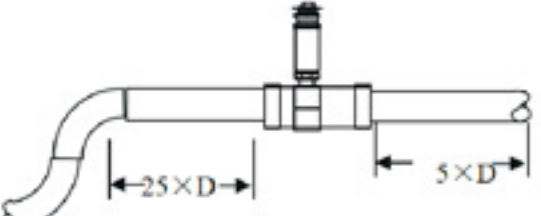
Model Suffix Code										Description	
LWGY-											
Diameter											Three Digitals; for example: 010: 10 mm; 015: 15 mm; 080: 80 mm;
Converter		N									No display; 24V DC; Pulse Output
		A									No display; 24V DC; 4-20mA Output
		B									Local display; Lithium Battery Power; No output
		C									Local display; 24V DC Power; 4-20mA Output;
		C1									Local display; 24V DC Power; 4-20mA Output; Modbus RS485 Communication
		C2									Local display; 24V DC Power; 4-20mA Output; HART Communication
Accuracy			05								0.5% of Rate
			02								0.2% of Rate
Flow Range				S							Standard Range: refer to flow range table
				W							
Body Material					S						SS304
					L						
Explosion Rating						N					Safety Field without Explosion
						E					
Fluid Temperature									-T1	-20...+80°C	
									-T2	-20...+120°C	
									-T3	-20...+150°C	

Dimension



DN	D(mm)	A(mm)	B(mm)	d(mm)	L(mm)
DN4	Dia. 50	OD 45	ID 40.5	4	100
DN6				6	
DN10				10	
DN15				15	
DN20				20	
DN25				25	
DN32				32	
DN40	Dia. 64	Dia. 59	Dia. 54	40	140
DN50	Dia. 77	Dia. 73.5	Dia. 68.5	50	150

Installation Notice

One 90° elbow		Two 90° elbows for two planes	
Concentric expander		Control valve half-open	
Concentric shrinkage wide open valve		Two 90° elbows for one plane	

CALIBRATION



CERTIFICATE



Liquid Turbine Flow Meter CE

Liquid Turbine Flow Meter Ex-proof



GOODS DELIVERY



5,000 sets/month Production Capacity
Suit to ship by Air, Sea and Land Carriage

SERVICE

- Offer professional model selection
- Provide installation video
- 2 Years warranty
- 24 hour appointed personal service
- Full refund in case of bad quality
- Sign confidentiality agreement, keep your business secret
- Accept various payment method, convenient for business transaction

