



# SANITARY TURBINE FLOW METER

Model: F07.0402-S

For Reliable Sanitary  
Liquid Measurement



New High-tech  
Enterprise



CE



Ex-proof



ISO



# APPLICATION





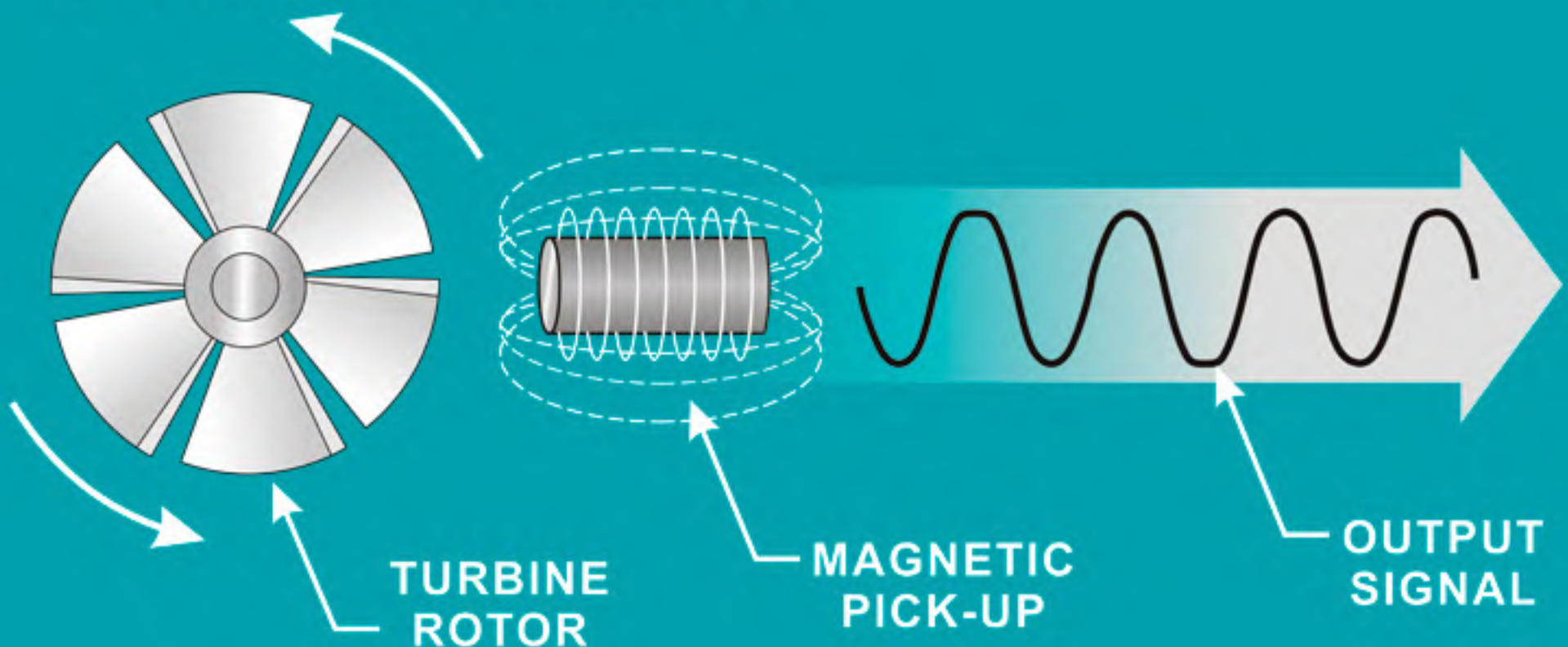
# WHAT IS A LIQUID TURBINE FLOWMETER?

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.

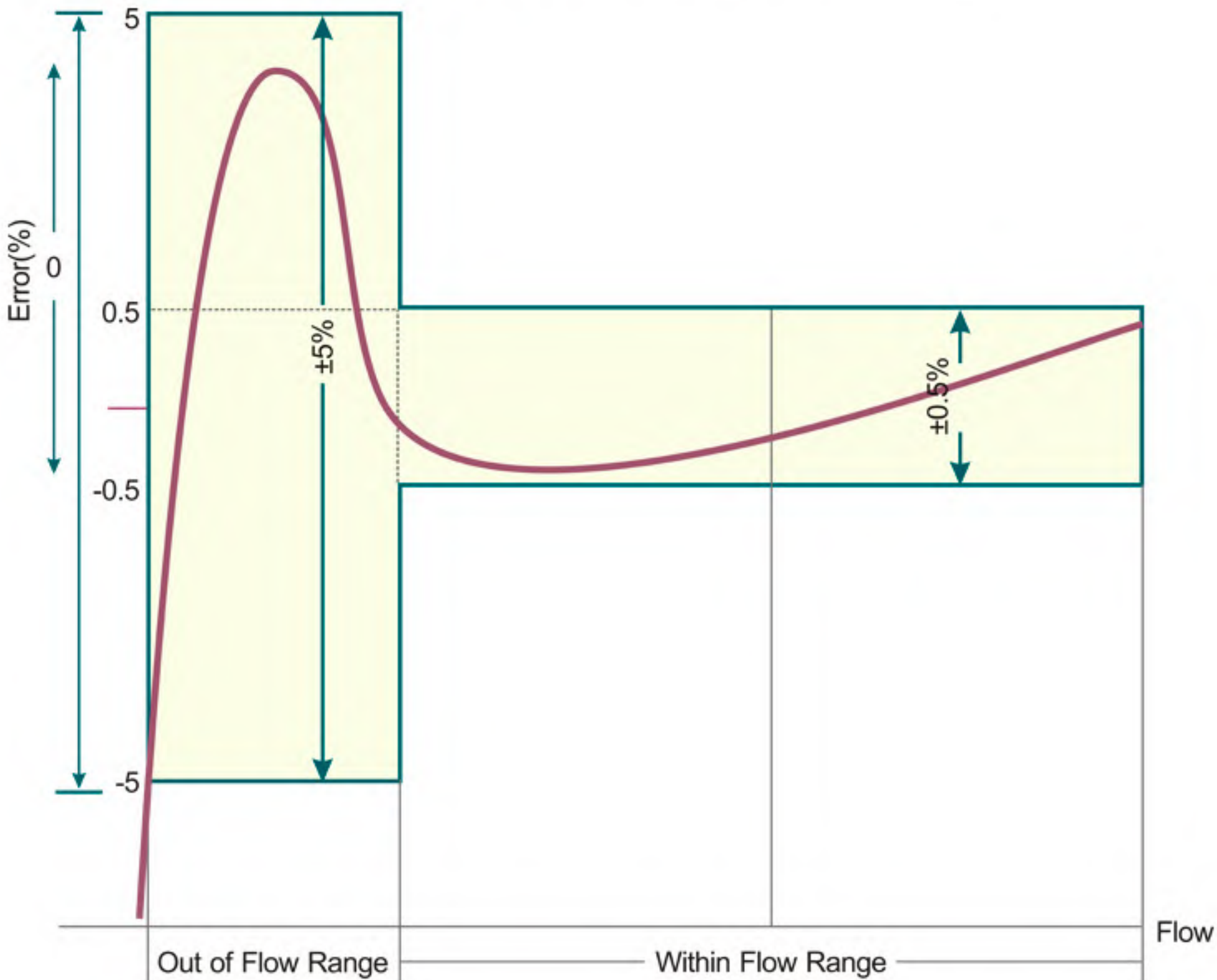
## ● Turbine Flow Meter



# 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**





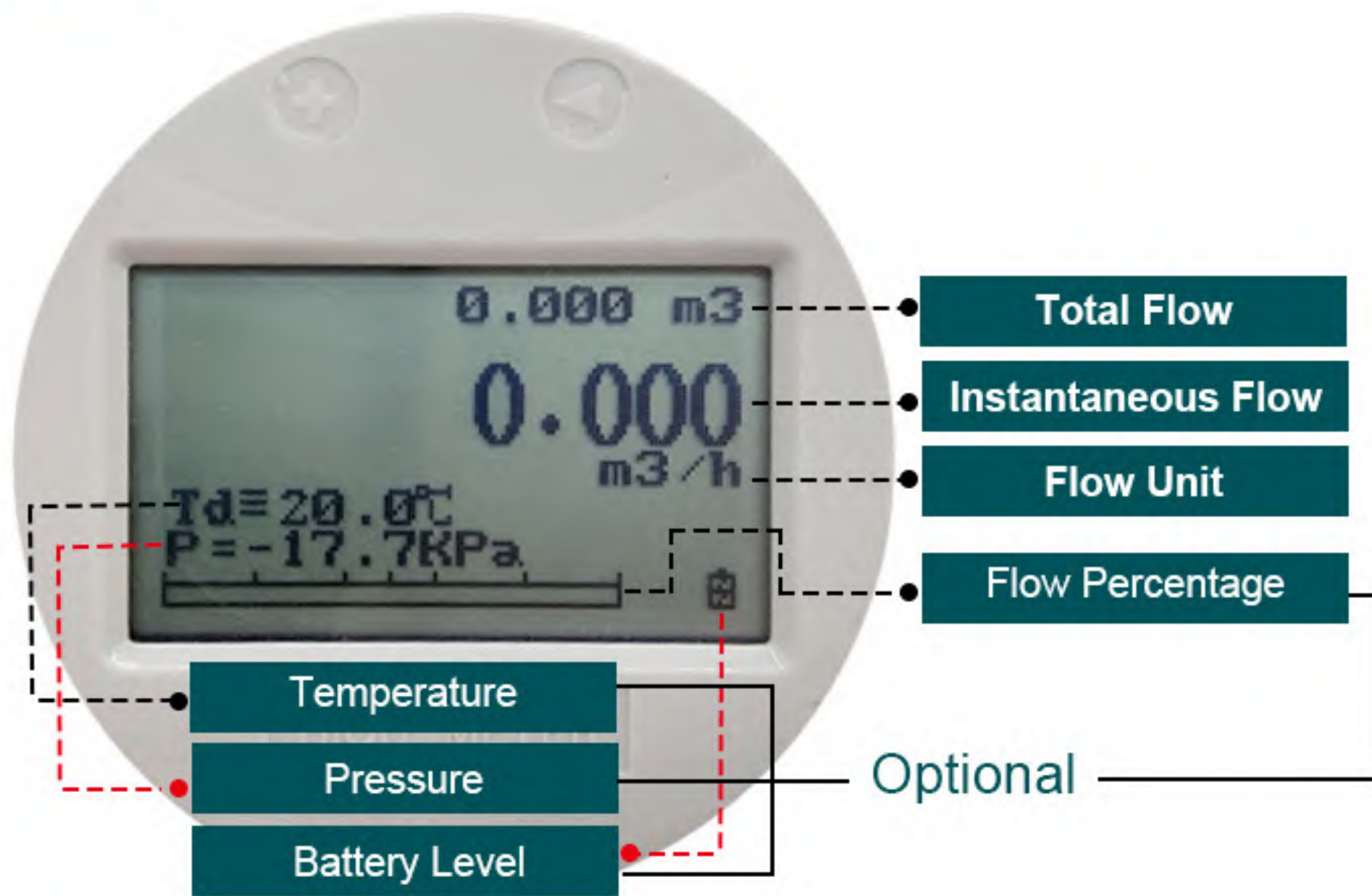
**02**

## Simple Structure Easy Installation and Maintenance



# 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, m<sup>3</sup>, 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



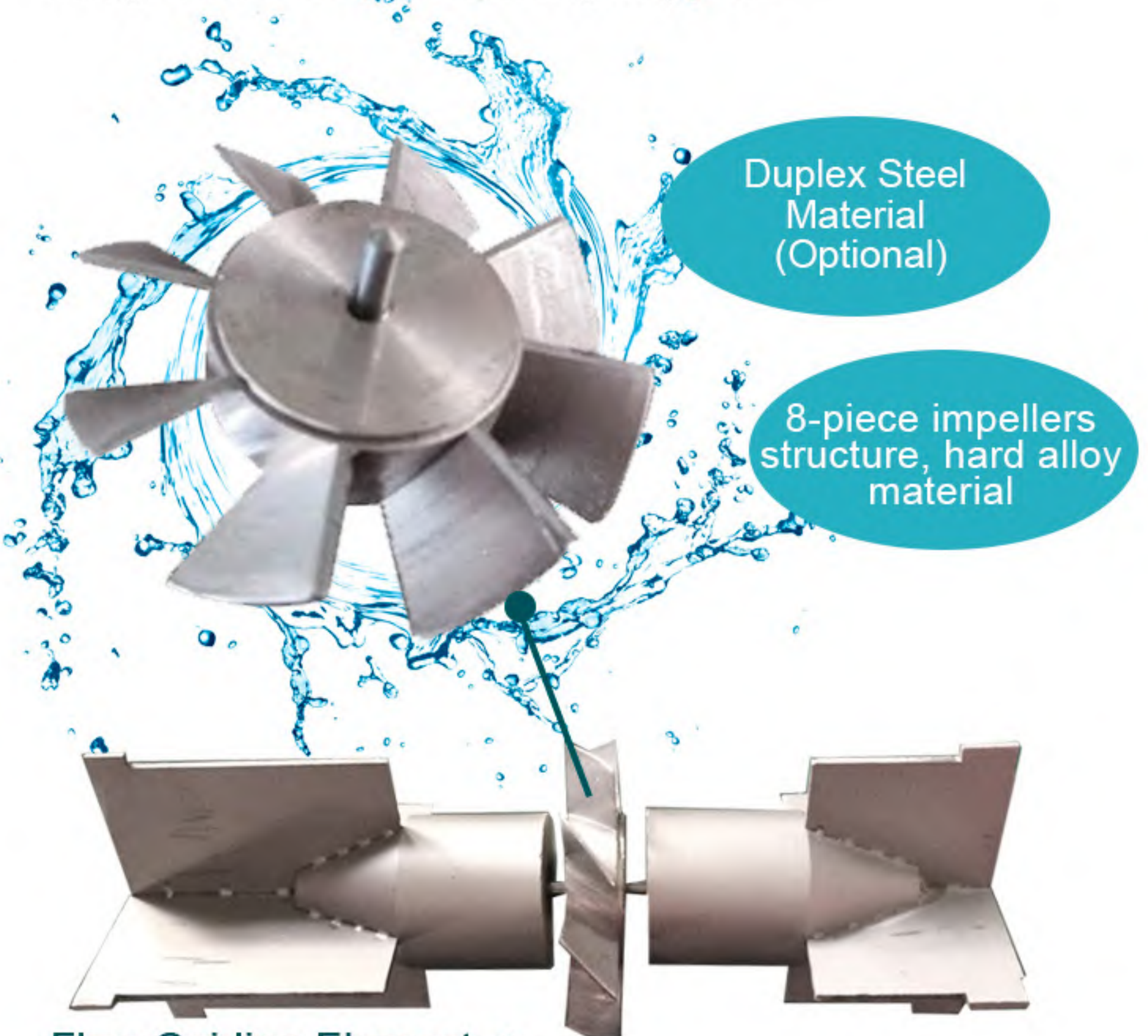
Resist High Temperature  
up to 150 °C



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-

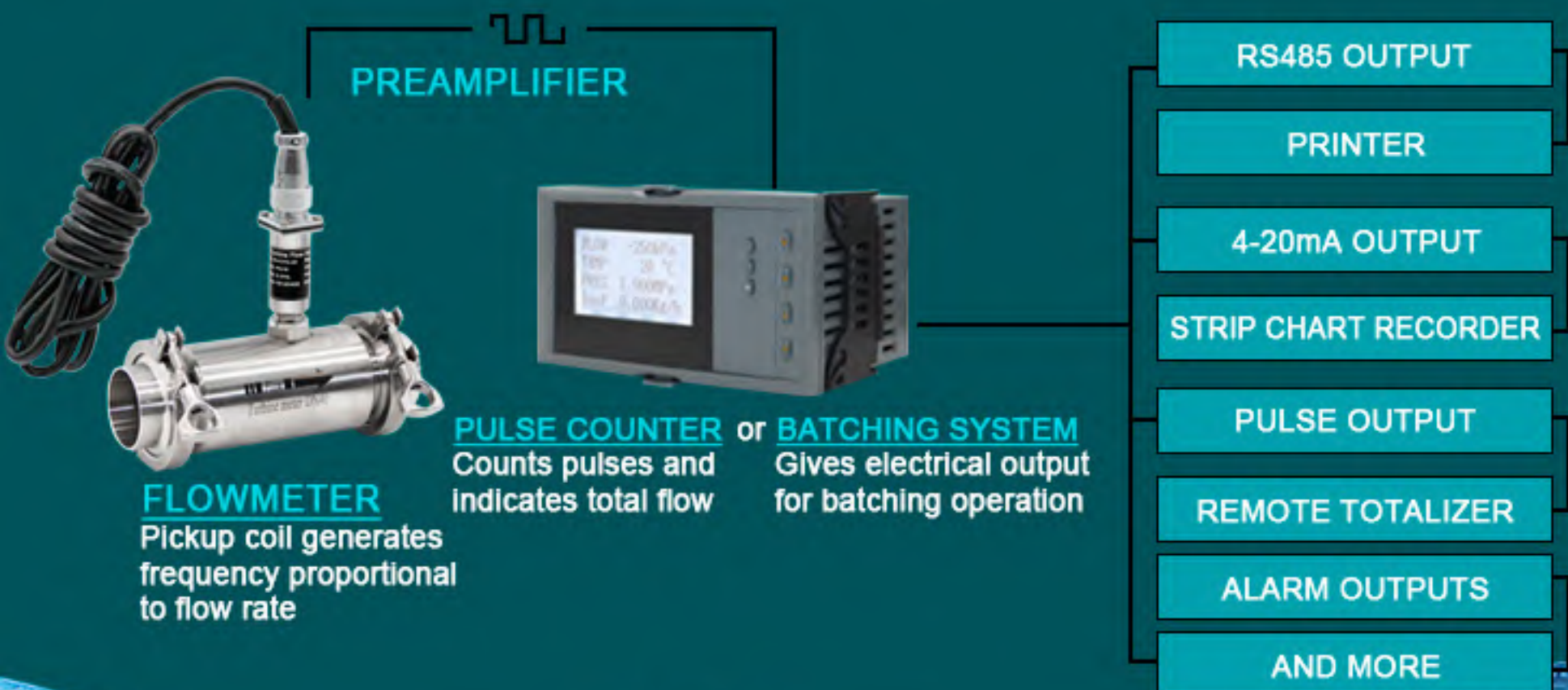


Two Wire DC4-20mA

24V+ 24V-  
Pulse



Three Wire Pulse





# 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 <sup>3</sup> /h)	Extended Range (m <sup>3</sup> /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

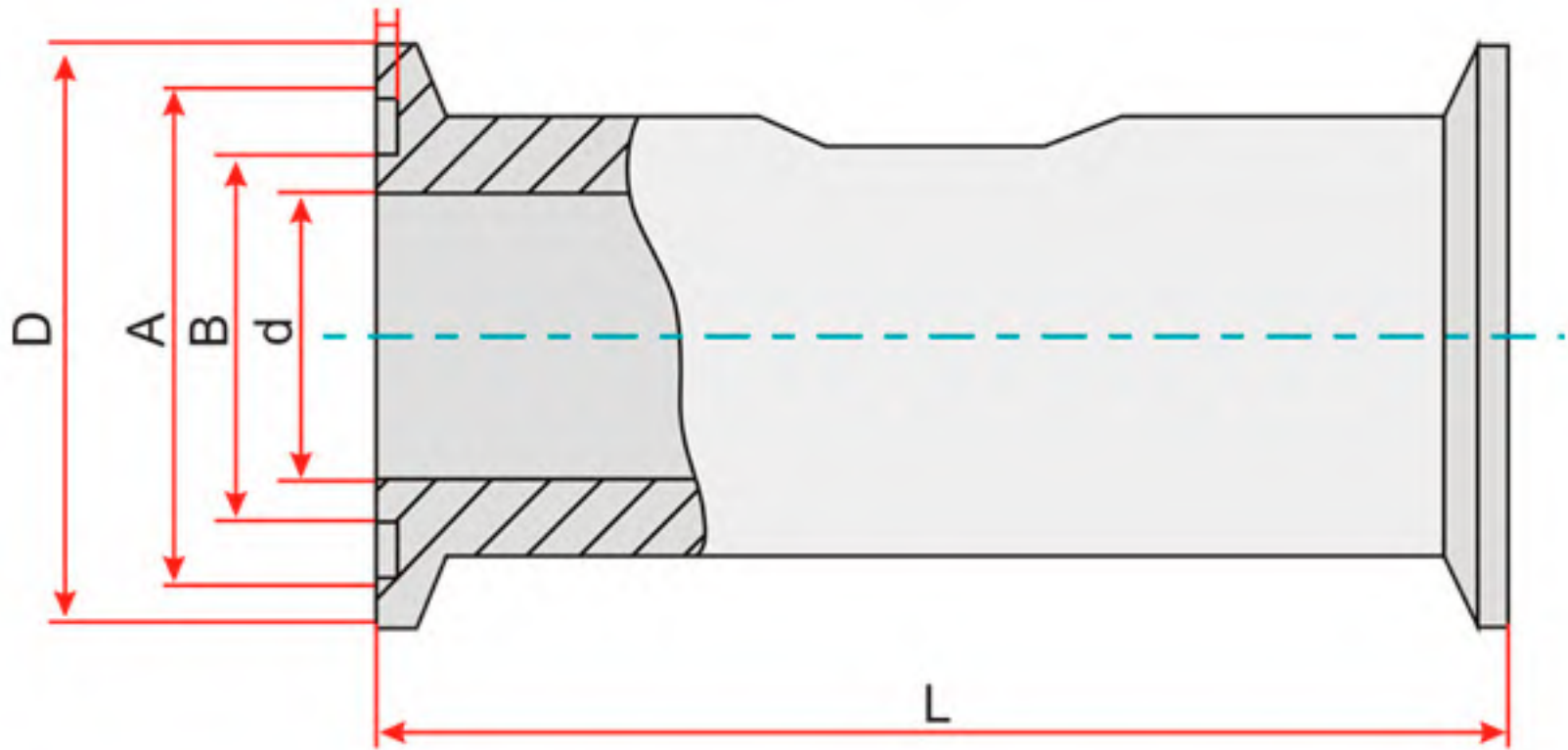


# Model Selection

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



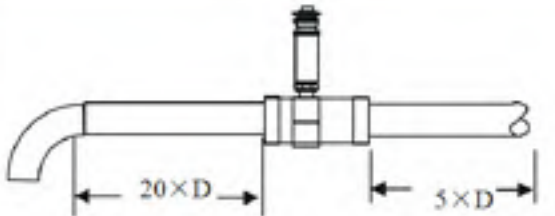
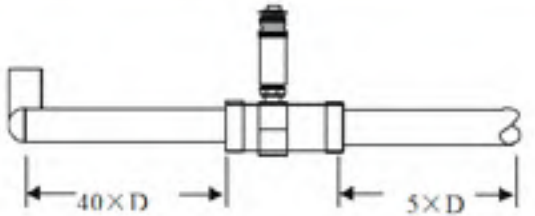
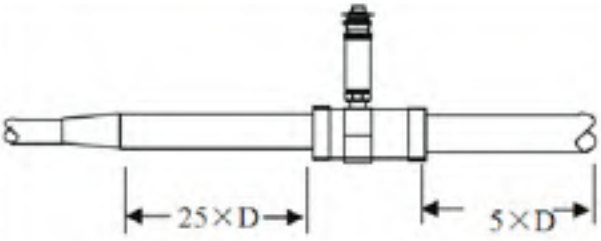
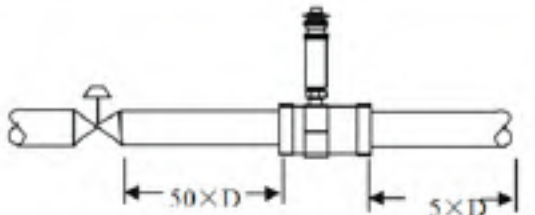
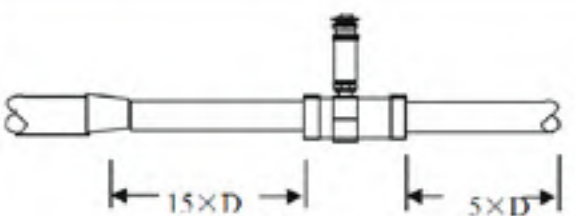
# Dimension



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

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