



Centered on Quality
Based on Service

TURBINE FLOW METER

Precision instruments · Accurate measurement

Anhui Jujie Automation Technology Co., Ltd.

I About Us



10⁺

Over 10 years of independent research and development and production experience.

2500⁺

2,500+ square meters of modern offices and workshops

Anhui Jujie Automation Technology Co., Ltd. is located in Wuhu, Anhui Province, the city of makers. After ten years, Jujie Automation has continued to deepen its presence in the field of industrial automation. The annual production and sales volume of its newly launched liquid turbine flowmeters is over 10,000 units, and its paperless recording instruments have obtained multiple patent certifications and third-party certification tests. Jujie Automation carefully grasps every detail and is committed to providing users with considerate products and services.



Since its establishment, the company has applied for more than 10 patents, 8 software copyrights, and 3 registered trademarks. In 2023, the company passed the honorary titles of National Science and Technology Small and Medium Enterprises and National High-tech Enterprises. The company has also passed various certifications such as SGS, TUV, CE, CPA, ISO9001, ISO14001, ISO45001 and explosion-proof certifications for multiple products, laying a solid foundation for the development of the brand.



●● Calibration Device



● Liquid flow calibration device

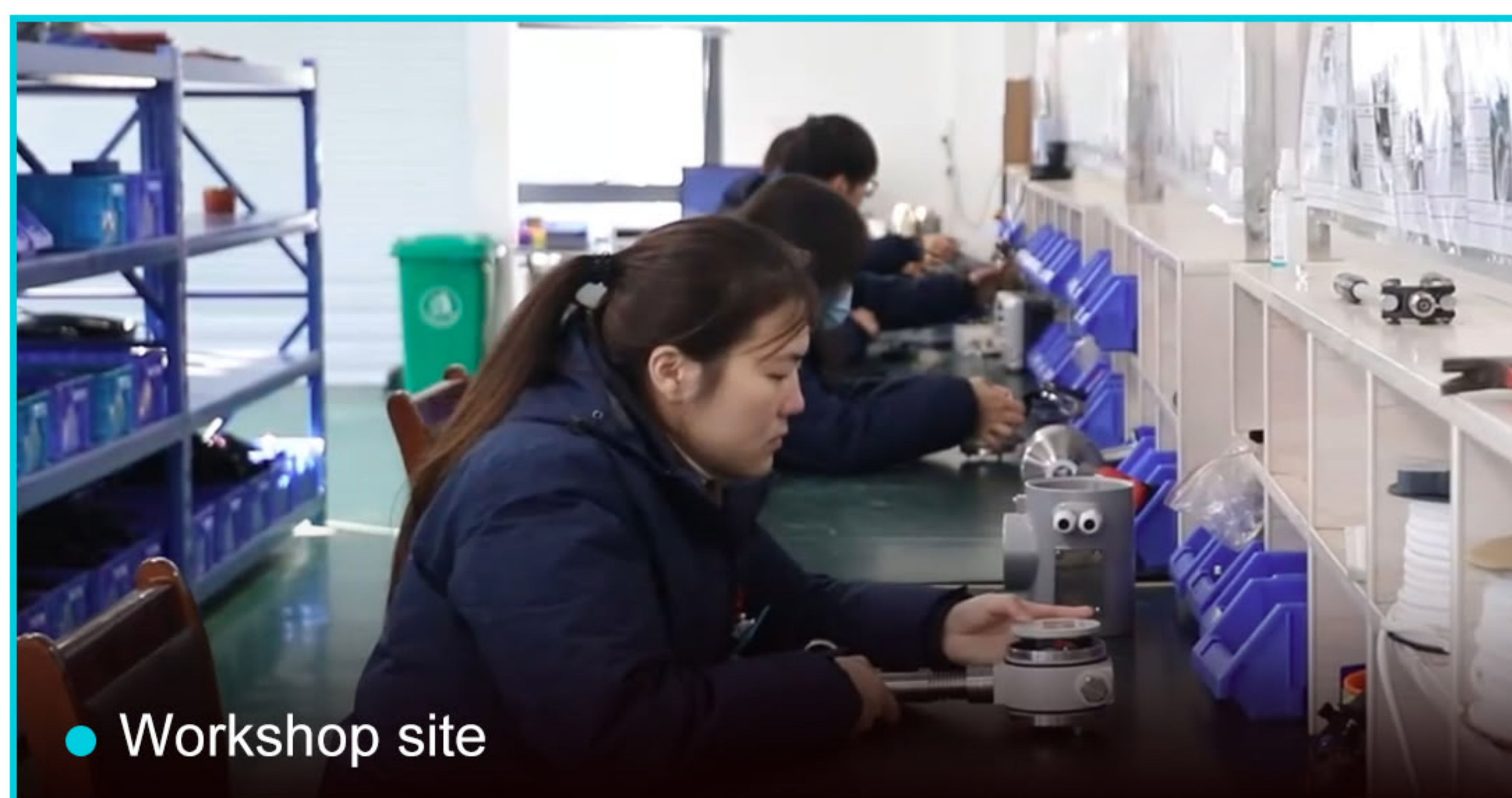


● Small-diameter liquid flow calibration device

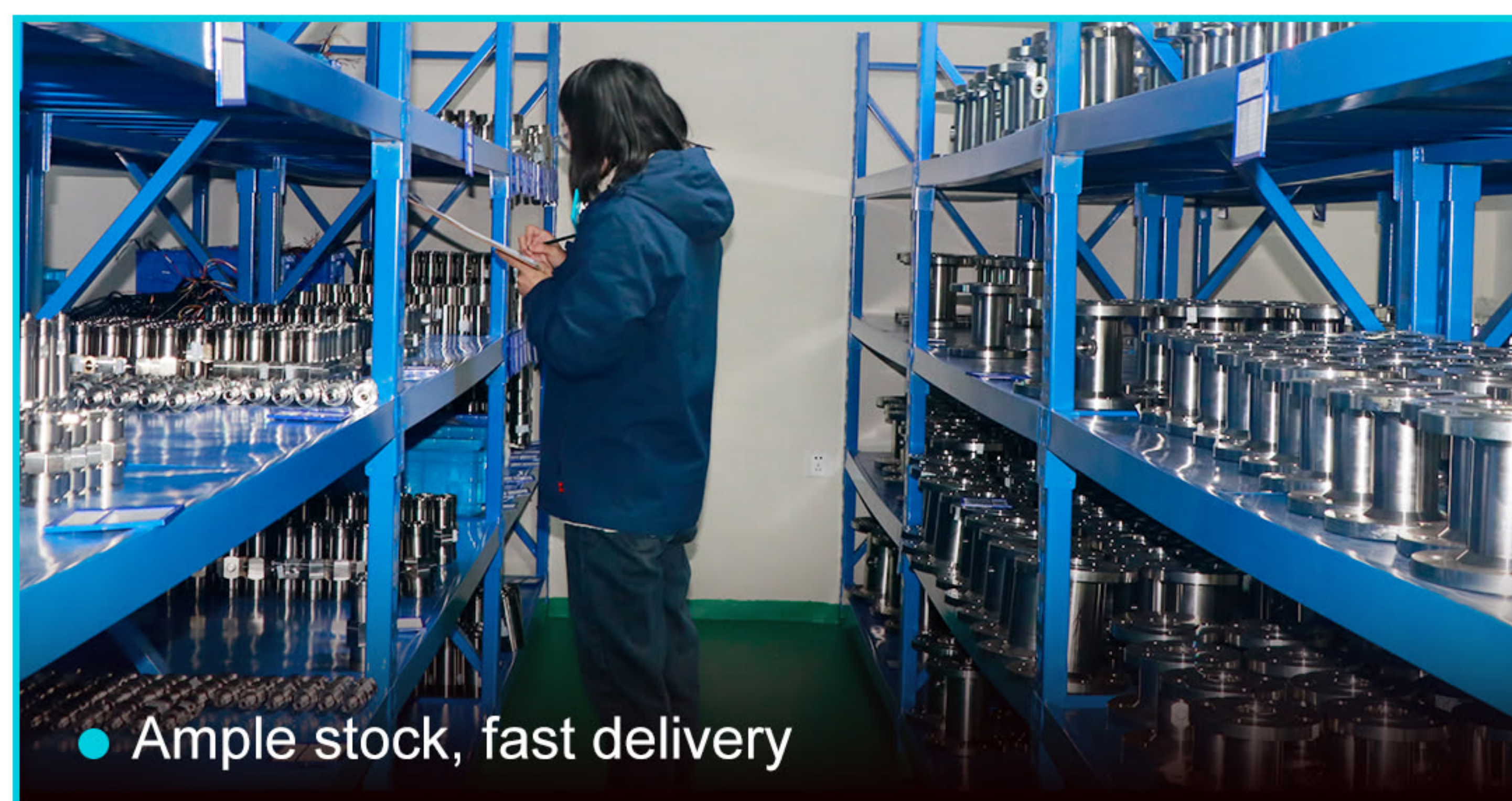


● Gas flow calibration device

●● Factory Photos



● Workshop site



● Ample stock, fast delivery

The 2,500-square-meter factory is equipped with various testing and calibration devices to ensure the quality of our products. It also has professional production and assembly lines and a complete warehousing system to protect our products.

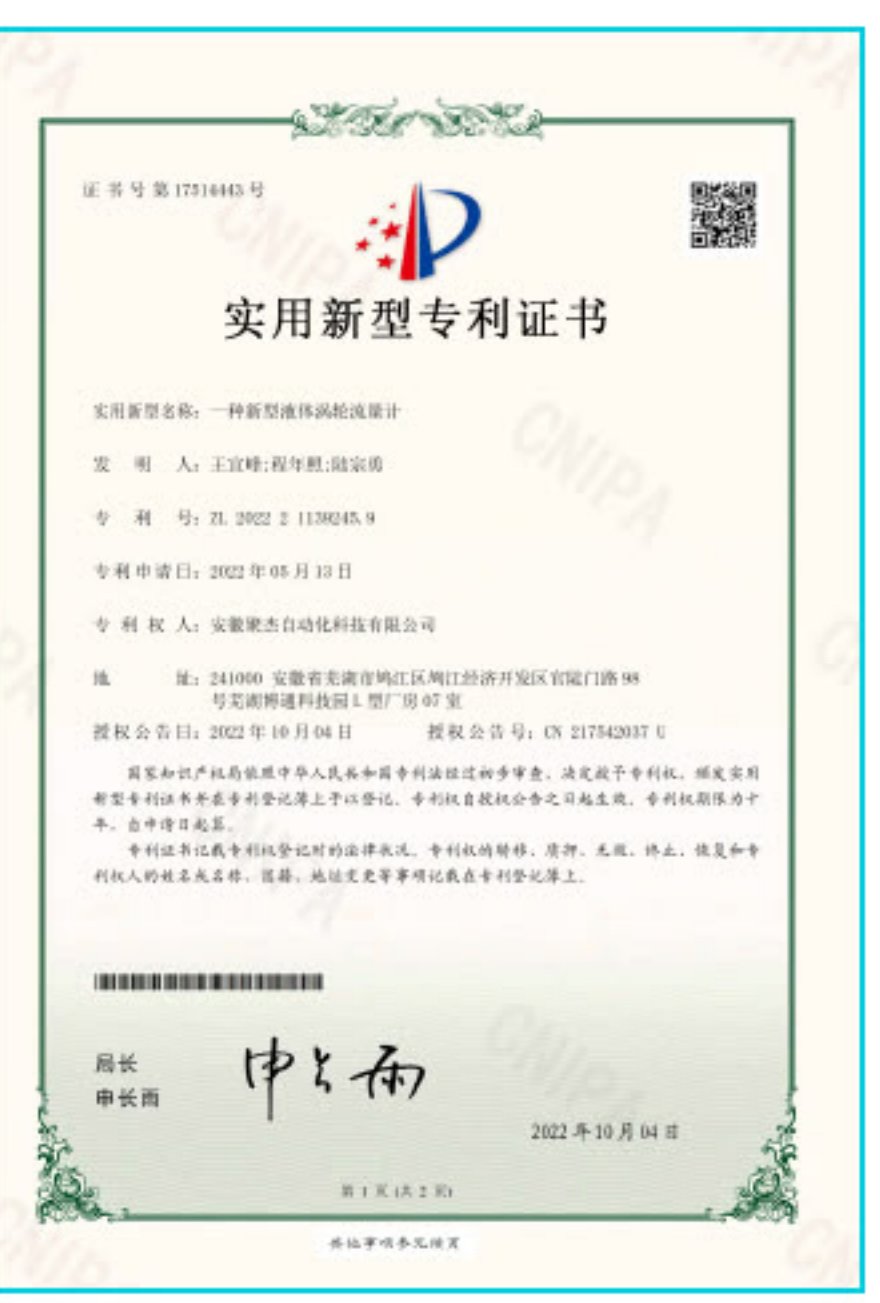
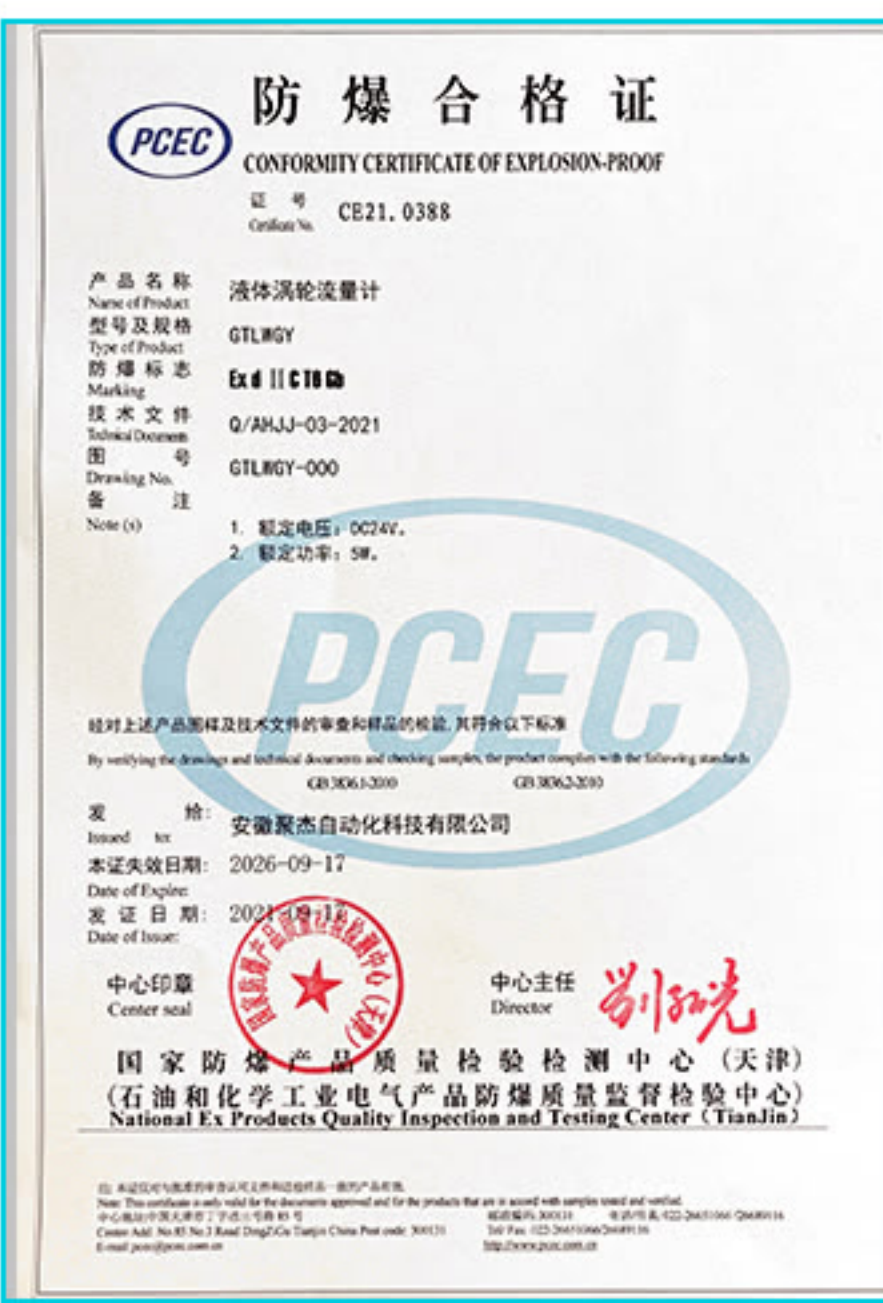
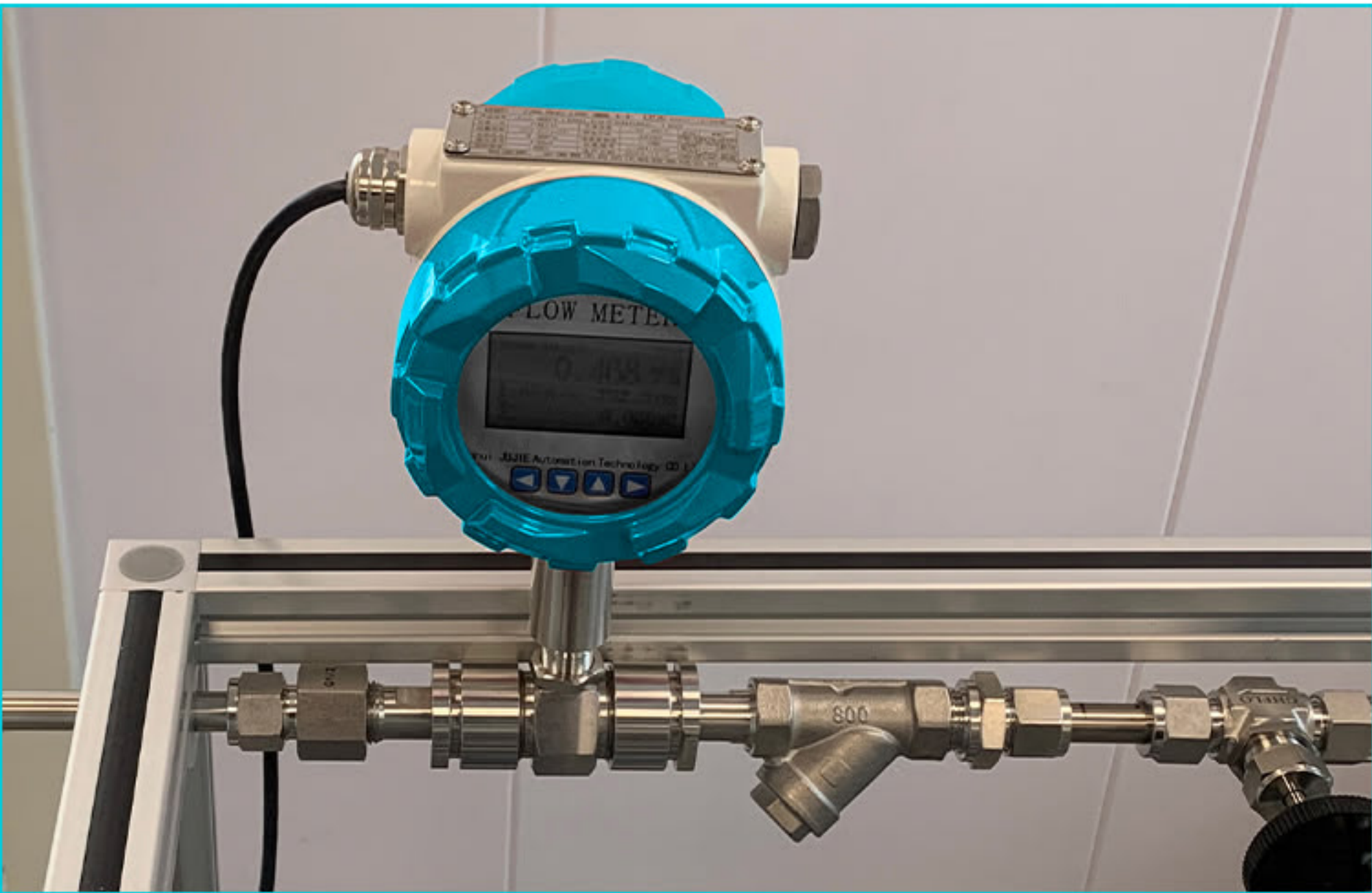
Product Introduction

Product Introduction – Turbine Flow Meter



The turbine flow sensor (hereinafter referred to as the sensor) is based on the torque balance principle and belongs to the velocity-type flow meter category. The sensor features a simple and lightweight structure, high accuracy, good repeatability, sensitive response, and convenient installation, maintenance, and use. It is used in industries such as petroleum, chemical, metallurgy, water supply, and papermaking, and is suitable for measuring liquids in closed pipelines that do not corrode stainless steel (1Cr18Ni9Ti, 2Cr13), corundum (Al_2O_3), or hard alloys, and are free of impurities such as fibers and particles. When paired with a display instrument with special functions, it can also perform quantitative control and over-limit alarms. The explosion-proof type (ExdIICT6Gb) of this product can be used in environments with explosion hazards. The sensor is suitable for media with a viscosity less than $5 \times 10^{-6} \text{m}^2/\text{s}$ at the operating temperature. For liquids with a viscosity greater than $5 \times 10^{-6} \text{m}^2/\text{s}$, the sensor must be calibrated with actual liquid before use.

Turbine Flow Meter - Product Qualification



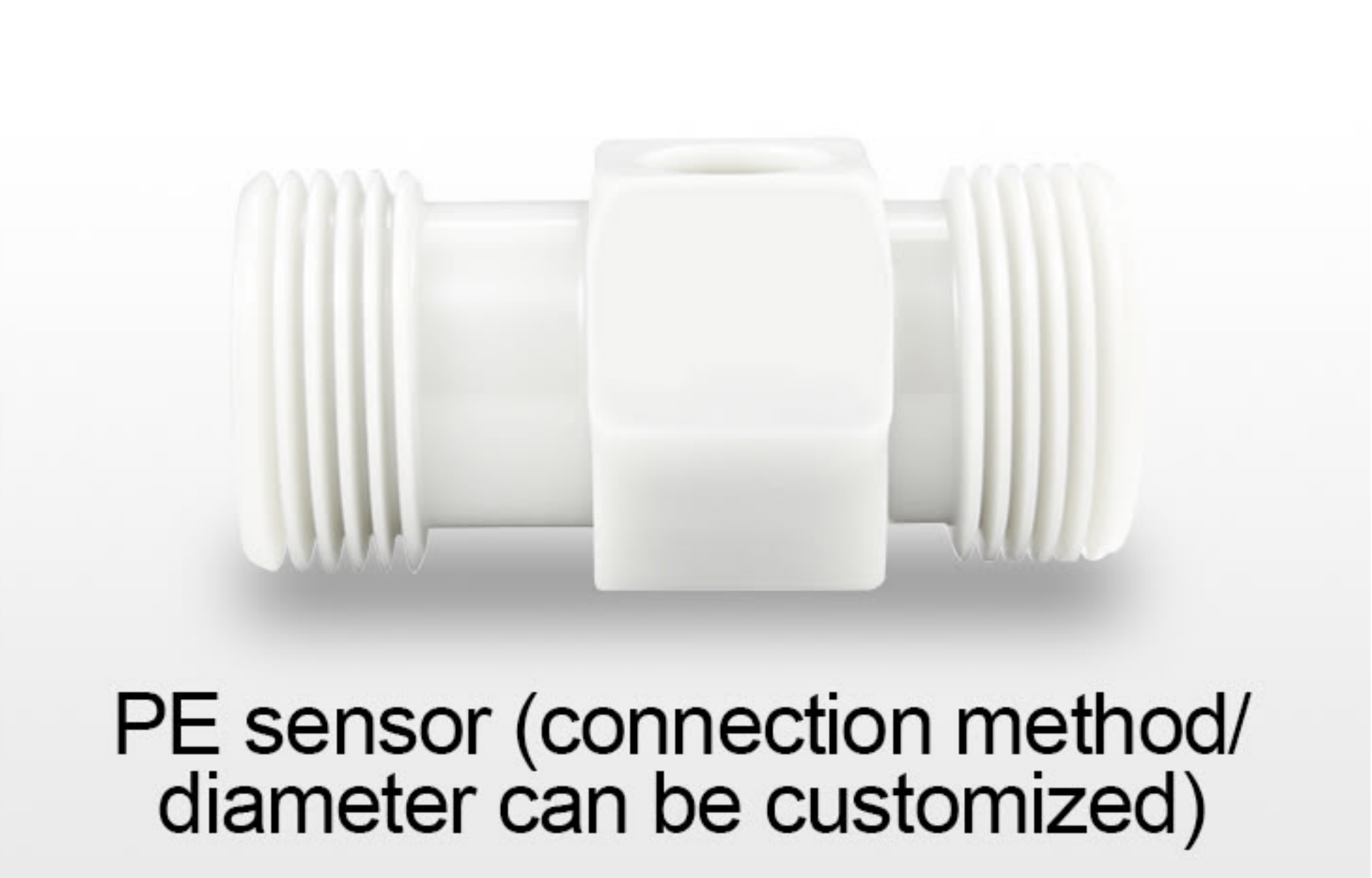
Technical Parameters

Test Medium	For liquids free of impurities, low viscosity, and strong corrosiveness			
Execution Standard	Turbine flow sensor (JB/T9246-2016)			
Verification Procedure	Turbine flow meter (JJG1037-2008)			
Instrument Diameter and Connection Method	Flange connection type: DN15~DN200; Threaded connection type: DN4~DN50; Clamp connection type: DN4~DN200; Compression clamp connection type: DN4~DN100			
Flange Standard	Standard	HG/T 20592-2009		Such as German Standard DIN, American Standard ANSI, Japanese Standard JS
	Other Standards	International Pipe Flange Standards		
			Domestic Pipe Flange Standards	
Thread Specifications	Standard Specifications	British Standard Pipe Thread (External Thread)		
	Other Specifications	Internal threads, spherical threads, NPT threads, etc.		
Accuracy class and corresponding repeatability	Precision class	±1%R	±0.5%R	±0.2%R (Customization required)
	Repeatability	≤0.33%	≤0.17%	≤0.07%
Range Ratio	Frequency decimal point	10:1~20:1		
Verification Conditions	Calibration device	Standard meter method liquid flow rate calibration device; Static mass method liquid flow rate calibration device		
	Environmental conditions	Ambient temperature: 20℃; Relative humidity: 65%		
Usage Conditions	Medium temperature	Standard configuration: -20℃~80℃; T: -40℃~180℃		
	Ambient temperature	-20℃~60℃		
	Relative humidity	5%~90%		
	Atmospheric pressure	86Kpa ~106Kpa		
Output function	Signal output	Pulse signal, 4-20mA signal		
	Communication output	RS485 communication, HART protocol		
Working Power Supply	External power supply	+24VDC, suitable for 4-20mA output, pulse output, RS485, etc.		
	Internal power supply	CM0, CM4 (1 set of 3.6V 19Ah lithium batteries)		
Signal Line Interface	N type	Hossmann connector DIN43650 or aviation plug CX165P		
	Full series	Metal waterproof threaded internal thread M20×1.5		
Explosion-proof rating	ExdIIC T6 Gb			
Protection rating	IP65 or higher (customizable)			

●● Flow Range and Accuracy Class

Instrument diameter (mm)	Flow Range (m³/h)	Flow Range (L/min)	Expanding Traffic (m³/h)	Pressure Rating MPa		
				Threaded connection	Flange connection	Clamp connection
DN4	0.04~0.25	0.7~4.2	0.04~0.4	6.3	-	1.0
DN6	0.1~0.6	1.7~10	0.06~0.6	6.3	-	1.0
DN10	0.2~1.2	3.3~20	0.15~1.5	6.3	-	1.0
DN15	0.6~6	10~100	0.4~8	6.3	1.6	1.0
DN20	0.8~8	13.2~133.3	0.45~9	6.3	1.6	1.0
DN25	1~10	16.7~166.7	0.5~10	6.3	1.6	1.0
DN32	1.5~15	25~250	0.8~15	6.3	1.6	1.0
DN40	2~20	33.3~333.3	1~20	6.3	1.6	1.0
DN50	4~40	66.7~666.7	2~40	6.3	1.6	1.0
DN65	7~70	116.7~1166.7	4~70	-	1.6	1.0
DN80	10~100	166.7~1666.7	5~100	-	1.6	1.0
DN100	20~200	333.3~3333.3	10~200	-	1.6	1.0
DN125	25~250	416.7~4166.7	13~250	-	1.6	-
DN150	30~300	500~5000	15~300	-	1.6	-
DN200	80~800	1333.3~13333.3	40~800	-	1.6	-

●● Connection Method



Choose the appropriate connection method, diameter, and material based on your site's piping and the measuring medium.

●● Non-display Turbine Flow Meter Model Introduction

Hirschmann connector

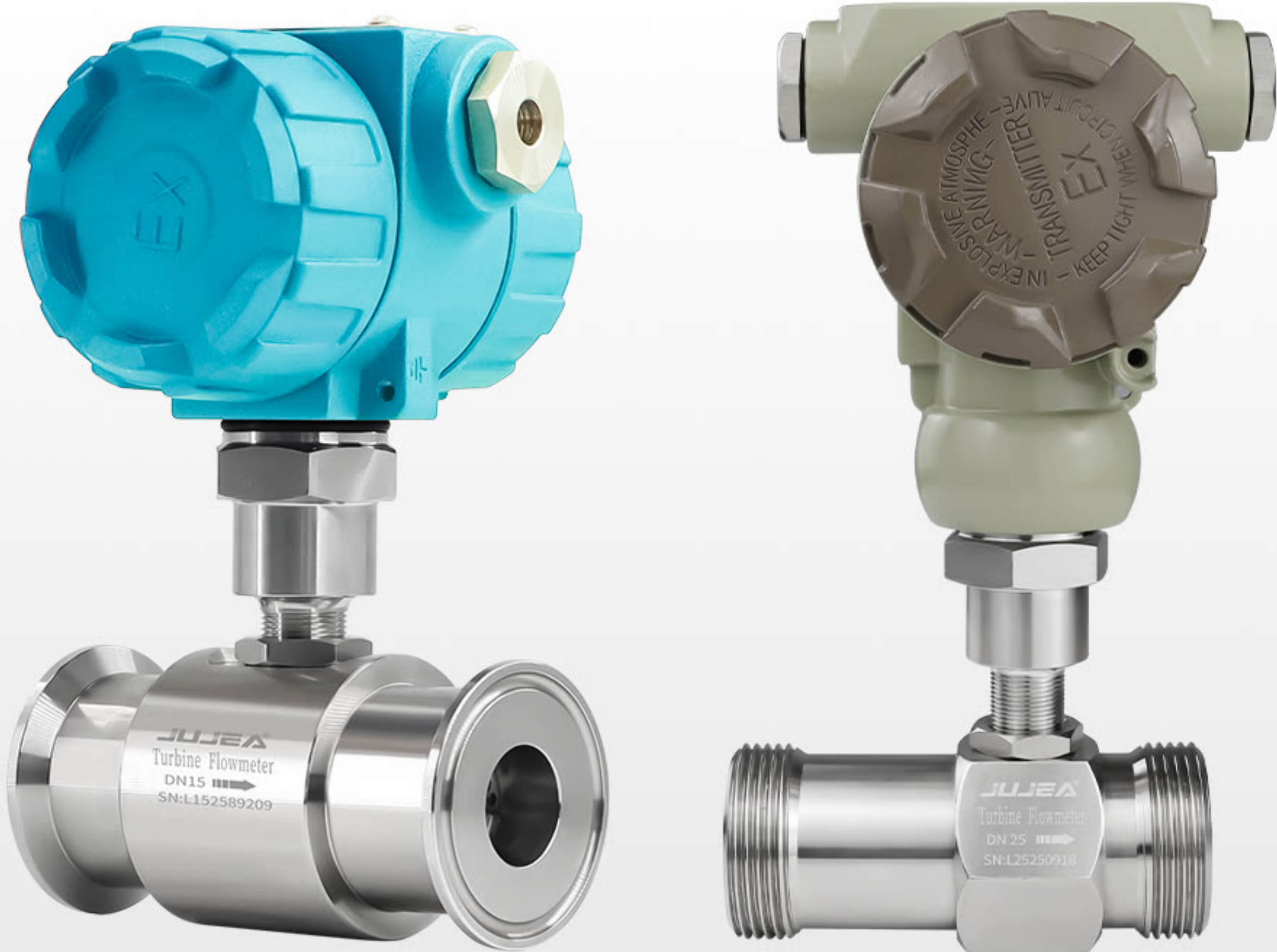


A stainless steel turbine flow meter with a black Hirschmann connector on top. The body has two threaded ports on the sides. The label on the body reads: JUEA Turbine Flowmeter DN 25 100mm SN:L25250359.

Model	N1	V2	V3	A1	D
Power Supply Method	12~24VDC	12~24VDC	12~24VDC	24VDC	24VDC
Output Signal	Pulse	0~10V	0~5V	4-20mA	RS485
Accuracy Level	Level 0.5 /1.0	Level 1.0	Level 1.0	Level 1.0	Level 0.5 /1.0
Connection Method	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange

Model	A	A2 (gray shell)	V	V1
Power Supply Method	24VDC	24VDC	12~24VDC	12~24VDC
Output Signal	4-20mA	4-20mA	0~10V	0~5V
Accuracy Level	Level 1.0	Level 1.0	Level 1.0	Level 1.0
Connection Method	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange

2088 header



Two stainless steel turbine flow meters with 2088 headers. The one on the left has a blue header, and the one on the right has a gray header. Both have two threaded ports on the sides. The label on the body reads: JUEA Turbine Flowmeter DN 15 100mm SN:L252509209.

Aviation connector



A stainless steel turbine flow meter with an aviation connector on top. The body has two threaded ports on the sides. The label on the body reads: JUEA Turbine Flowmeter DN 25 100mm SN:L2525013680.

Waterproof connector



A stainless steel turbine flow meter with a waterproof connector on top. The body has two threaded ports on the sides. The label on the body reads: JUEA Turbine Flowmeter DN 25 100mm SN:L252310866.

Model	N	FN
Power Supply Method	12~24VDC	12~24VDC
Output Signal	Pulse	Pulse
Accuracy Level	Level 0.5 /1.0	Level 0.5 /1.0
Waterproof Rating	IP65	IP68
Connection Method	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange

LCD Display Turbine Flow Meter Model Introduction

Display type - threaded connection

Display type - clamp connection

Display type - flange connection

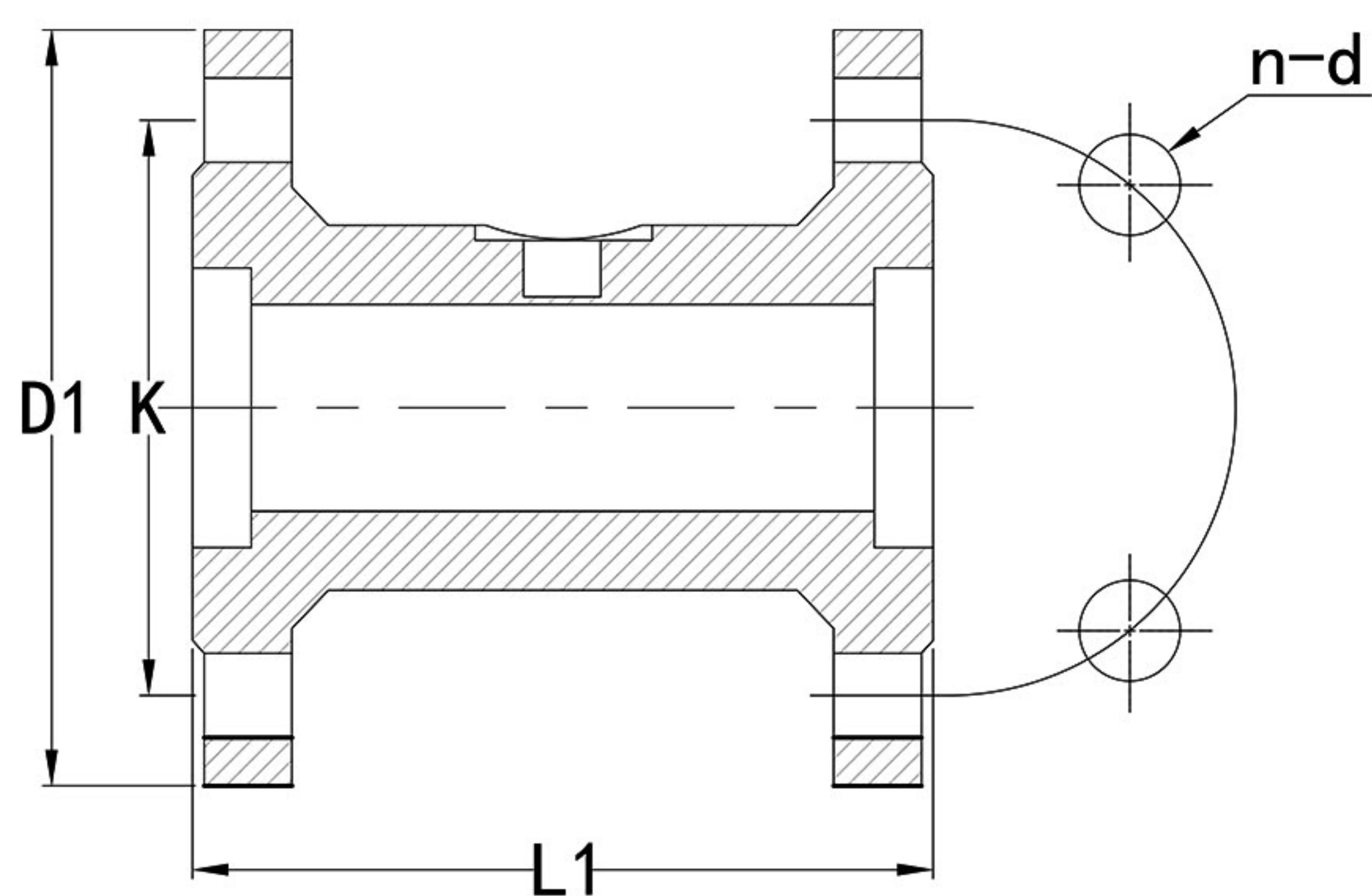
Model	CM0	CM1	CM2	CM2H	CM3	CM4	CM5	CM6
Power Supply Method	3.6V lithium battery	24VDC	24VDC	24VDC	24VDC	3.6V lithium battery / 24VDC	24VDC	24VDC
Output Signal	/	Pulse	4-20mA	4-20mA Hart	RS485	Pulse 4-20mA RS485	0-10V	0-5V
Accuracy Level	Level 0.5 / 1.0	Level 0.5 / 1.0	Level 1.0	Level 1.0	Level 0.5 / 1.0	Level 0.5 / 1.0	Level 1.0	Level 1.0
Connection Method	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange	Female Male thread Tri-clamp Flange

Flow Meter Application Scenarios

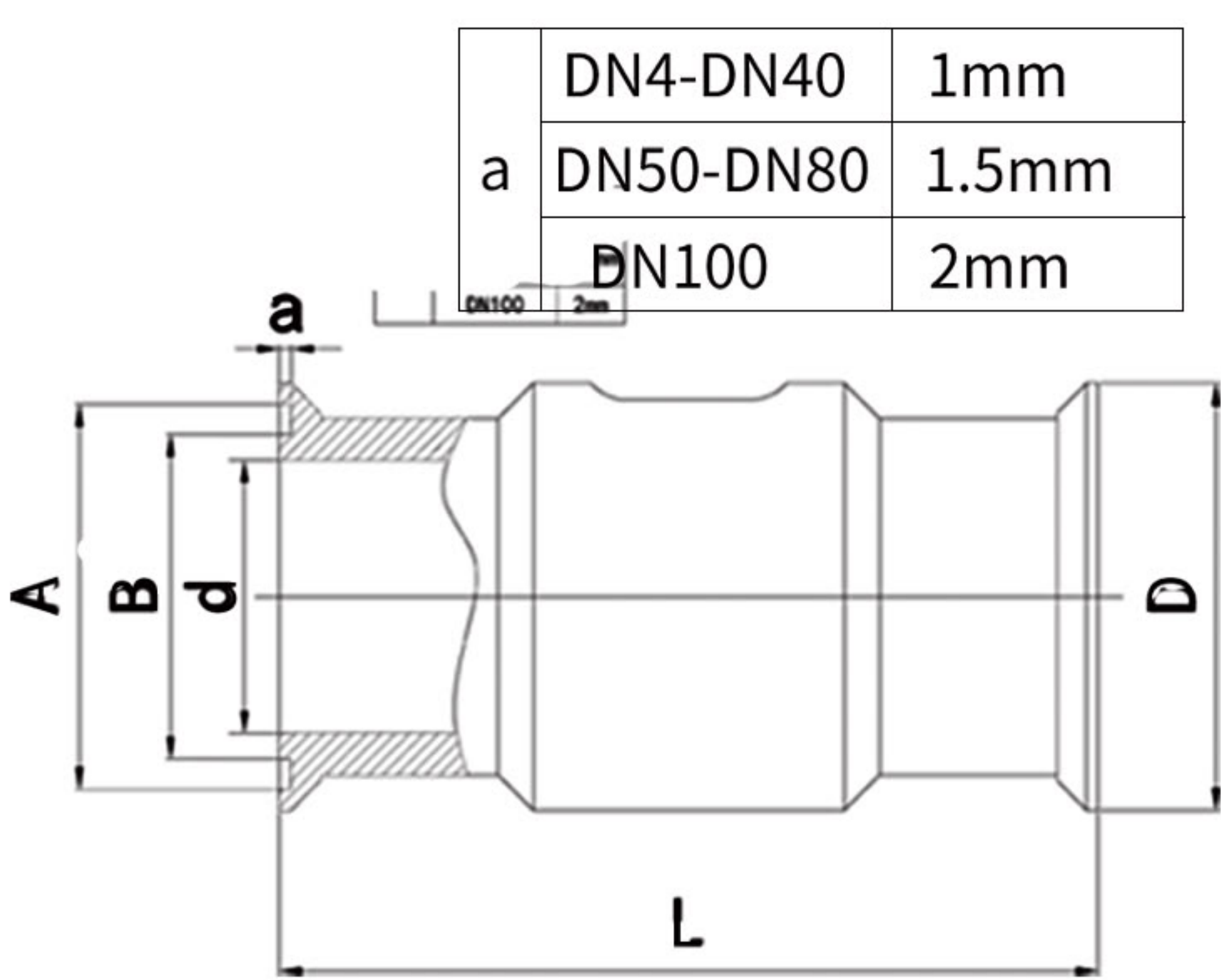




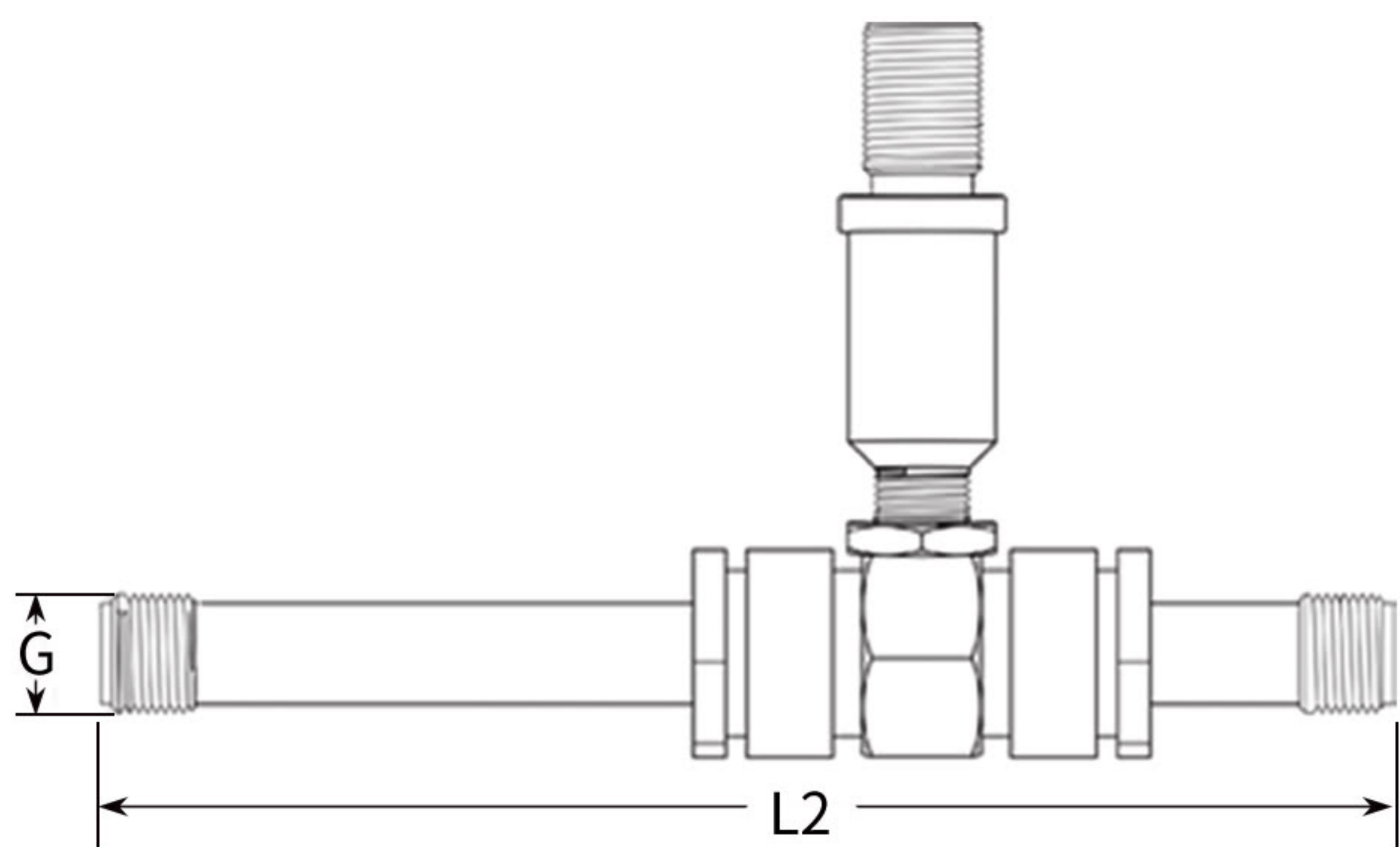
Flowmeter Valve Body Model and Dimensions



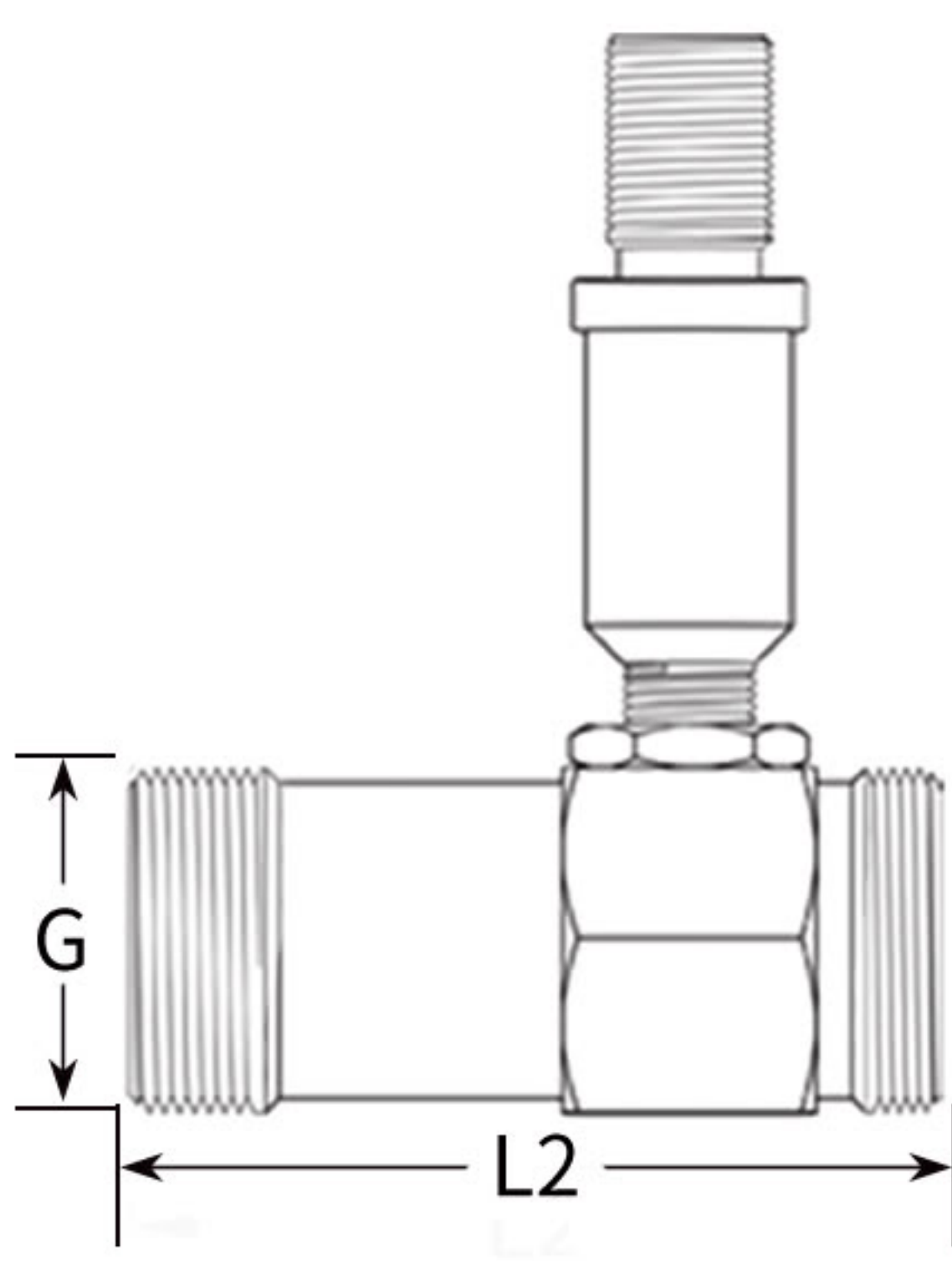
Flange valve body (DN15~DN200)



Sanitary valve body (DN4~DN100)

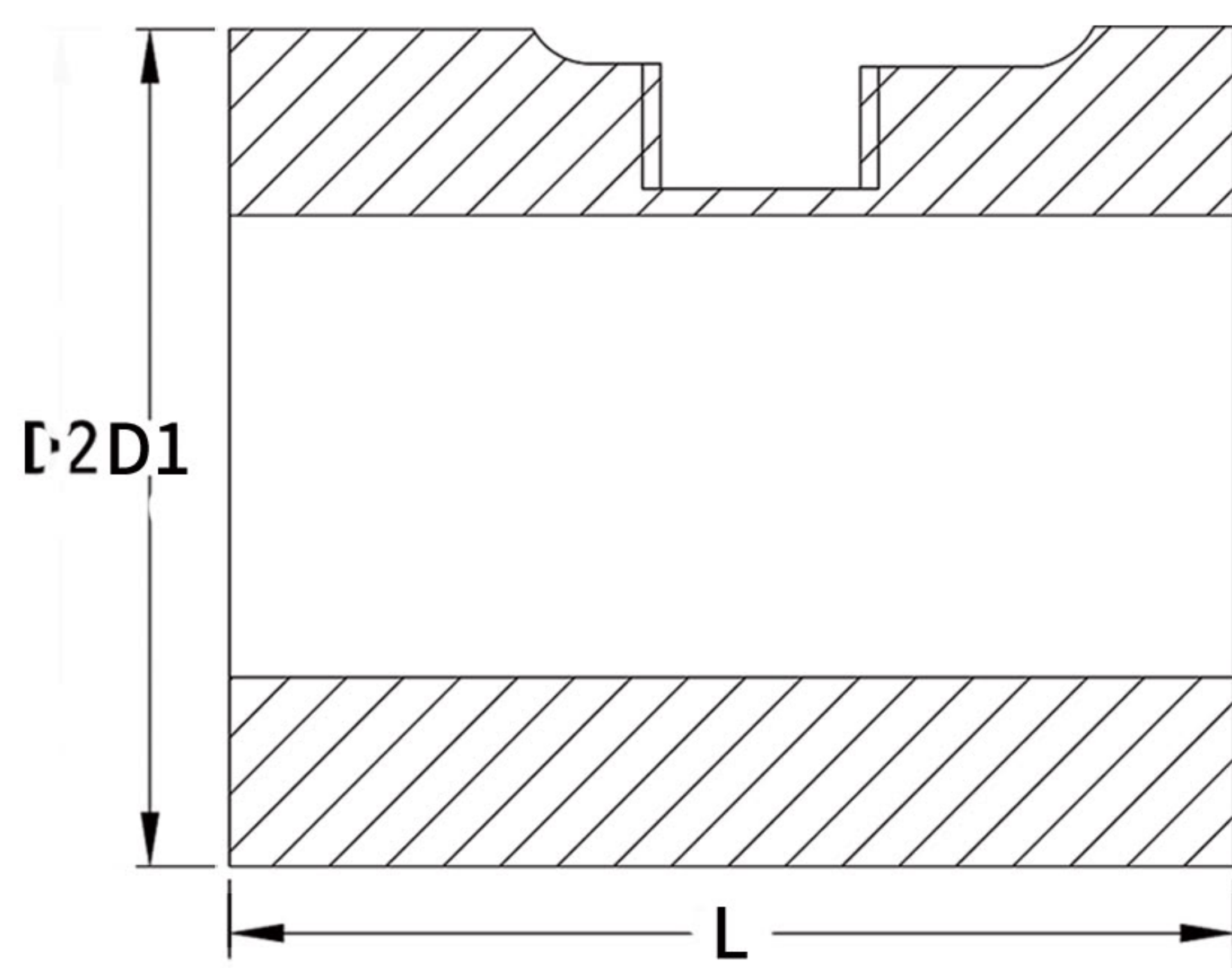


Small diameter external thread valve body (DN4~DN10)

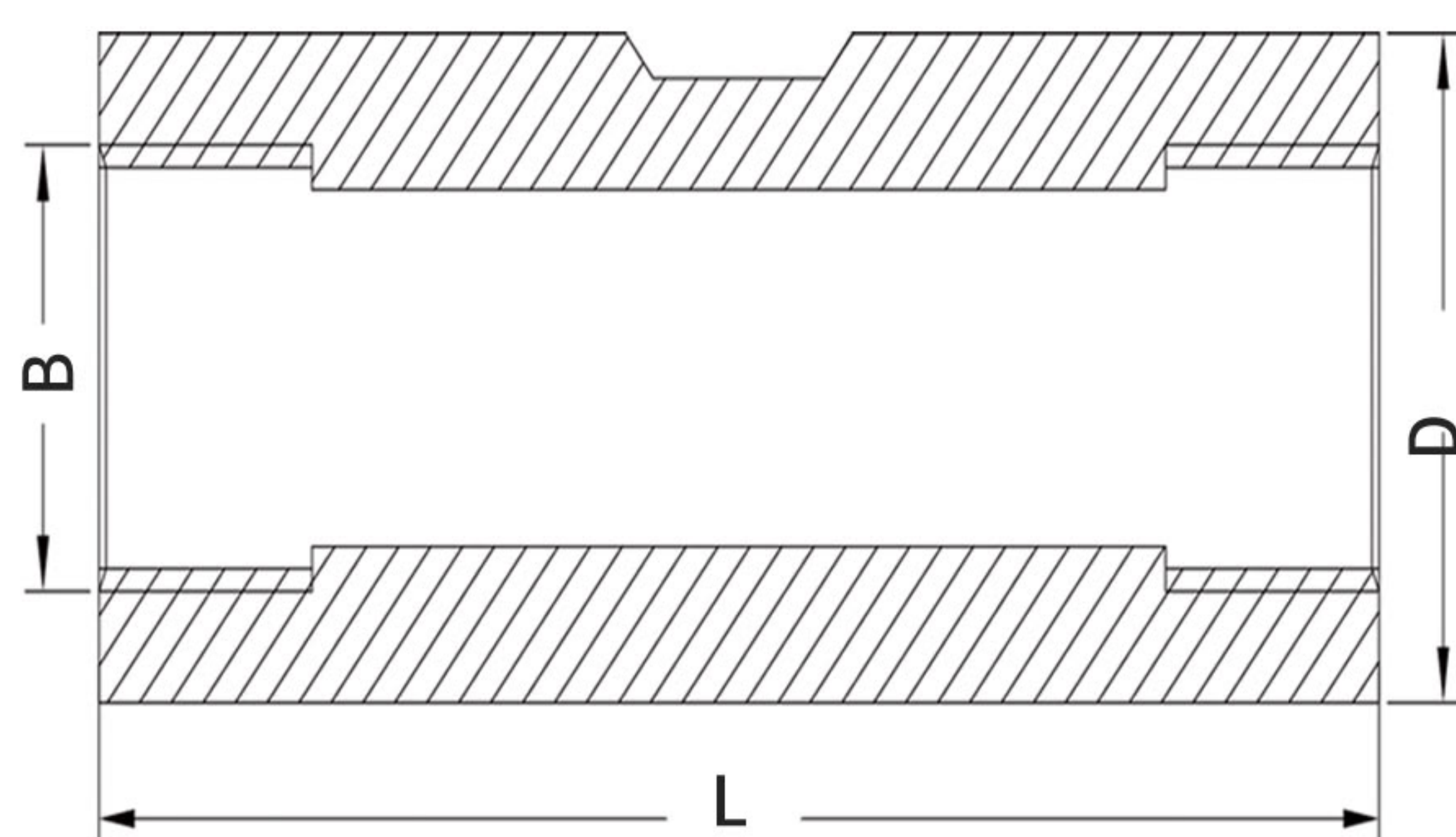


External thread valve body (DN15~DN50)

Nominal Diameter	Flange Valve Body					External Thread Valve Body		Sanitary Clamp Valve Body				
	L1	D1	K	D	n (Number of holes)	L2	G (external thread)	D	A	B	d	L
DN4	/					225	G1/2	50.5	46	40.5	4	50
DN6						225	G1/2	50.5	46	40.5	6	50
DN10						345	G1/2	50.5	46	40.5	10	50
DN15	75	95	65	14	4	75	G1	50.5	46	40.5	15	100
DN20	85	105	75	14	4	85	G1	50.5	46	40.5	20	100
DN25	100	115	85	14	4	100	G5/4	50.5	46	40.5	25	100
DN32	140	140	100	18	4	140	G1-1/2	50.5	46	40.5	32	120
DN40	140	150	110	18	4	140	G2	64	59	53.5	40	140
DN50	150	165	125	18	4	150	G5/2	78	73.5	68	50	150
DN65	170	185	145	18	4	Customization Supported		91	86	80.5	65	170
DN80	200	200	160	18	8			106	100.5	94	80	200
DN100	220	220	180	18	8			119	113	106	100	220
DN125	250	250	210	18	8			/				
DN150	300	285	240	22	8							
DN200	360	340	295	22	12							



Flange clamp valve body (DN4~DN200)



Internal thread valve body (DN4~DN50)

Nominal Diameter	Flange Clamp Valve Body		Internal Thread Valve Body		
	D1	L	Thread Specifications	L	D
DN4	38	50	G3/8	75	φ42
DN6	38	50	G3/8	75	φ42
DN10	38	50	G3/8	75	φ42
DN15	47	55	G1/2	100	φ43
DN20	54	60	G3/4	120	φ43
DN25	58	60	G1	120	φ49
DN32	66	70	G1 1/4	120	φ56
DN40	72	70	G1 1/2	120	φ60
DN50	92	70	G2	120	φ72
DN65	100	80	Larger diameters than DN50, customization supported.		
DN80	112	90			
DN100	137	100			
DN125	165	120			
DN150	190	150			
DN200	243	150			

Piping Installation Instructions

Upstream Pipe Type of Sensor	Length of Straight Pipe Sections Before and After	Upstream Pipe Type of Sensor	Length of Straight Pipe Sections Before and After
General Pipelines		A 90° bend	
Two 90°bends on the same plane		Two 90°bends on different planes	
Concentric tube shrinking		Concentric expansion tube	
Fully open valve		Half-open valve	

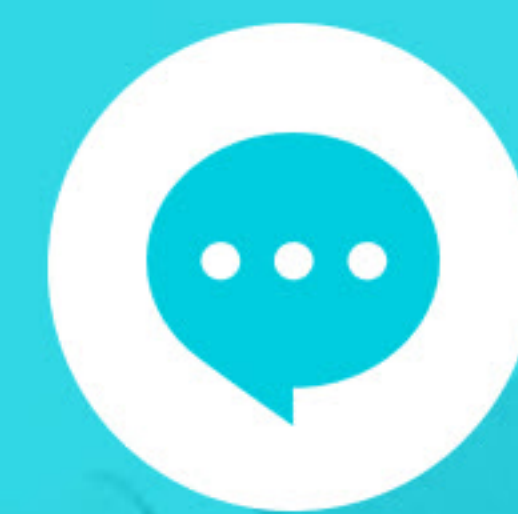
Selection Guide

Liquid Turbine Flow Meter Selection Table																
Model										Selection Guide						
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Nominal Diameter	4									DN4mm, flow measurement range 0.04-0.25 m³/h						
	6									DN6mm, flow measurement range 0.1-0.6 m³/h						
	...															
	200									DN200mm, flow measurement range 80-800m³/h						
No Display Output Type	N									DC12~24V power supply, pulse output aviation connector						
	N1									DC12~24V power supply, pulse output Hirschmann						
	FN									DC12~24V power supply, pulse output, IP68 waterproof rating						
	V									DC12~24V power supply, 0~10V output (3-wire system), 2088 meter						
	V1									DC12~24V power supply, 0~5V output (3-wire system), 2088 meter						
	V2									DC 12~24V power supply, 0~10V output (3-wire system), Hirschmann connector						
	V3									DC 12~24V power supply, 0~5V output (3-wire system), Hirschmann connector						
	A									DC24V power supply, 4-20mA output, small blue casing with no display.						
	A1									DC24V power supply, 4-20mA output (2-wire), Hirschmann connector						
	A2									DC24V power supply, 4-20mA output, gray 2088 casing with no display.						
	D									DC24V power supply, RS485 output (4-wire), Hirschmann connector						
Transition Code	B									On-site display type						
Connection Method	L									External thread connection						
	N									Internal thread connection						
	F									Integral flange connection						
	K									Clamp connection (quick-install sanitary type)						
	J									High-pressure flange clamping						
Accuracy Level	C0									Accuracy class: 0.2						
	C1									Accuracy class: 0.5						
	C2									Accuracy class: 1.0						
	C3									Accuracy class: 1.5						
Range Type			W								Wide measurement range (accuracy of standard range cannot be guaranteed).					
			S								Standard measurement range					
Valve Body Material				S								304 Stainless Steel				
				F								PTFE Material				
				P								PE Material				
				L								316L Stainless Steel Material				
Impeller Material				-								Standard impeller made of 2Cr13 steel, Y8 alloy shaft				
				S								Duplex steel, Y8 alloy shaft				
				T								Duplex steel, ceramic shaft				
One-Click Reset				Q								External one-key reset button				
Explosion-Proof Rating				-								Unmarked items are not explosion-proof; no markings are added by default.				
				E								Explosion-proof type (ExdIICT6 Gb)				
Pressure Level				N								Standard pressure (default 6.3MPa for threaded connections, default 1.6MPa for flange connections)				
				Px								High voltage (please specify before ordering)				
Output Format				CM0								3.6V lithium battery powered, no output				
				CM1								DC24V powered, pulse output				
				CM2								DC24V powered, 4-20mA output (2-wire)				
				CM2H								DC24V powered, 4-20mA/HART output (2-wire)				
				CM3								DC24V powered, RS485 output				
				CM4								3.6V lithium battery/DC24V, dual power supply, full-function output 4-wire backplate				
				CM5								DC24V power supply, 0-10V output (4-wire)				
				CM6								DC24V power supply, 0-5V output (4-wire)				
Temperature Rating				-								80℃ (default, not added)				
				Tx								High Temperature (to be specified before ordering)				
Sensor Total Length				-								Default Length (default, not added)				
				L								L = Actual Length (mm)				
Illustrate: 1. Temperature rating: T=180℃; 2. Pressure level: P1=4MPa P2=6.3MPa P3=10MPa P4=16MPa P5=25MPa P6=32MPa P7=42MPa																



Service System

Our professional engineering service system is available 7*16 hours online to solve various problems related to product installation, measurement interference, operation, and usage. You can contact customer service through multiple platforms such as the company website and company store, or schedule an engineer to provide on-site guidance and training.



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Telephone Contact



Video Guide



On-site service booking

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