



Centered on Quality
Based on Service

LBG/LDG ELECTROMAGNETIC 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

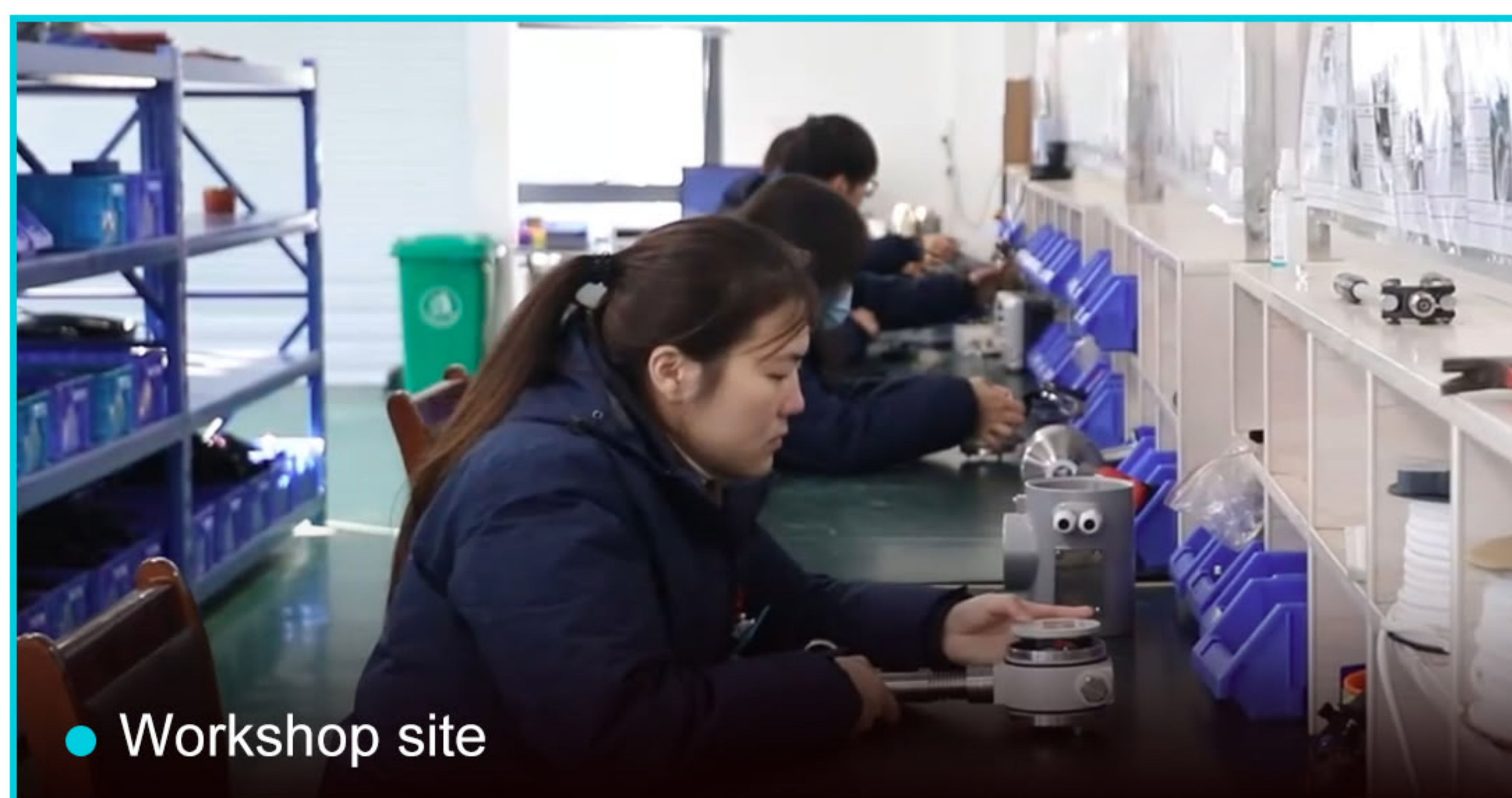


● Small-diameter liquid flow calibration device

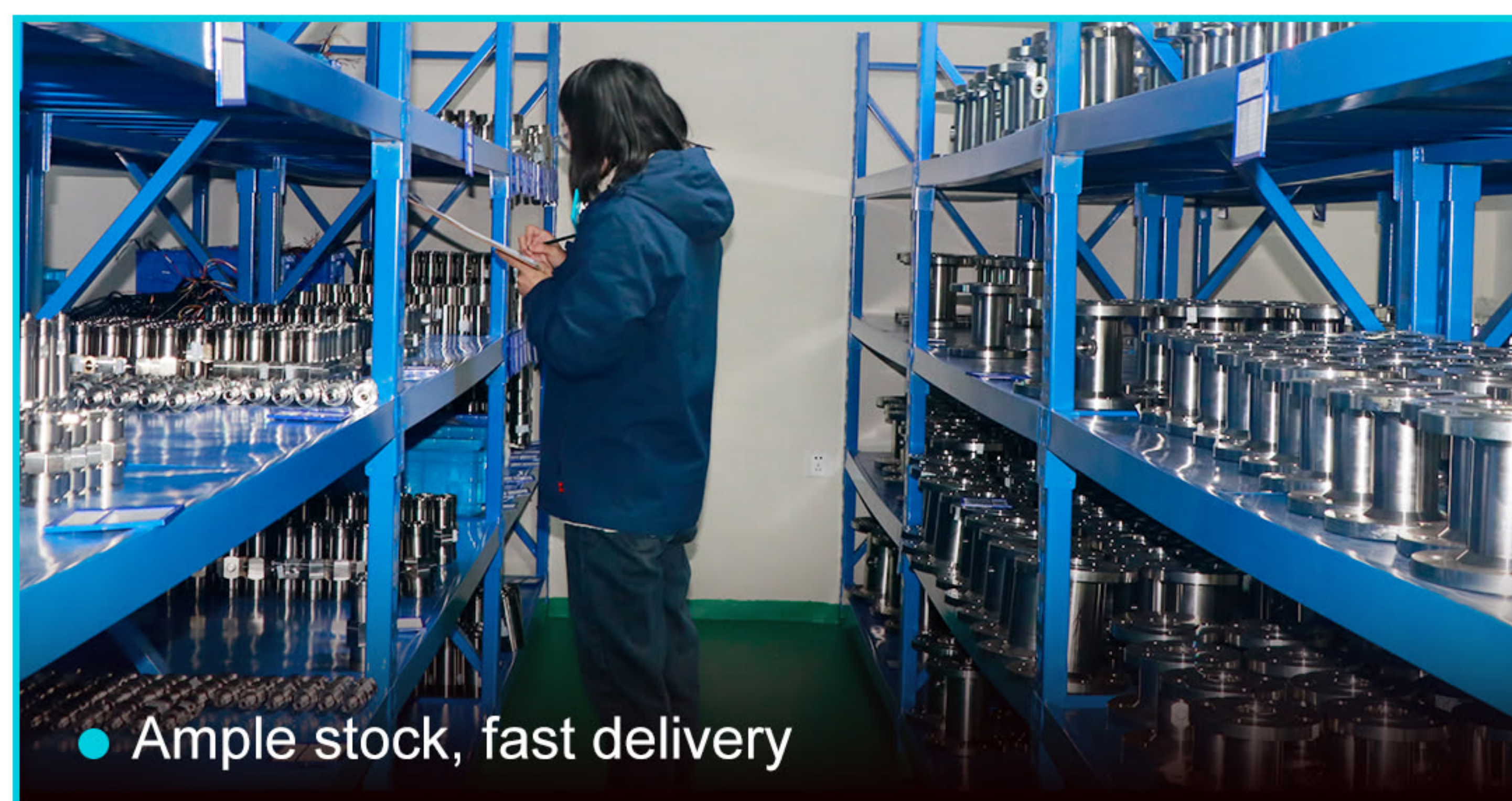


● Gas flow calibration device

●● 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 – Electromagnetic Flow Meter



The intelligent electromagnetic flowmeter employs a Chinese-English electromagnetic converter and utilizes a high-speed central processing unit. It boasts extremely fast calculation speed, high accuracy, and reliable measurement performance. The converter circuit has an input impedance of up to 750Ω, a common-mode rejection ratio (CMRR) better than 100dB, and a suppression capability of better than 90dB for external interference and 60Hz/50Hz interference, enabling the measurement of fluid media with lower conductivity. Its sensor employs non-uniform magnetic field technology and a special magnetic circuit structure, ensuring a stable and reliable magnetic field.

Electromagnetic flowmeters have unique advantages and are therefore widely used in chemical, fiber, food, paper, sugar, mining, water supply and drainage, environmental protection, water conservancy and hydraulic engineering, steel, petroleum, and pharmaceutical industries to measure the volumetric flow rate of various conductive liquid media such as acids, alkalis, salt solutions, mud, slurry, pulp, coal-water slurry, corn slurry, fiber slurry, grain slurry, lime milk, sewage, cooling water, water supply and drainage, brine, hydrogen peroxide, beer, wort, various beverages, black liquor, and green liquor.

Electromagnetic Flow Meter - Product Qualification



Flow Meter Application Scenarios



Product Features

- ▶ The pipeline has no moving parts or flow obstruction components, has a simple structure, is reliable in operation, and has almost no additional pressure loss during measurement;
- ▶ The measurement results are independent of physical parameters such as flow velocity distribution, fluid pressure, temperature, density, and viscosity;
- ▶ Pure copper excitation coil; excitation current can be selected as 125mA, 187.5mA, or 250mA;
- ▶ High-definition backlit LCD display, easy to use, simple to operate, and easy to learn and understand;
- ▶ It uses SMD components and surface mount technology (SMT circuits have high reliability);
- ▶ It adopts a 16-bit embedded microprocessor, which has fast processing speed, high precision, strong stability and low power consumption;
- ▶ It features fully digital signal processing, strong anti-interference capability, reliable measurement, and high accuracy;
- ▶ Chinese and English display options (other languages can be customized);
- ▶ Ultra-low EMI switching power supply, with a wide operating voltage range and good EMC resistance;
- ▶ It has three total integrators that can record the forward total, the reverse total, and the difference total, and it has an internal non-power-off clock;
- ▶ The power outage time recording function automatically records the power outage time of the instrument system and makes up for any missed flow rates;
- ▶ It has RS485, HART and other digital communication signal outputs;
- ▶ It has self-checking and self-analysis functions.

Technical Parameters of Pipeline Electromagnetic Flow Meter

Nominal Diameter (mm)	PTFE lining for pipes: DN10 ~ DN500; Rubber lining for pipes: DN65 ~ DN1200
Accuracy Class	Level 0.5; Level 1.0
Media Temperature	Standard rubber lining: -20 ~ +70℃; Polytetrafluoroethylene lining: -20 ~ +120℃
Pressure Rating	0.6MPa、1.0MPa、1.6MPa、4.0MPa
Flow Measurement Range	The flow measurement range corresponds to a flow velocity range of 0.5–5 m/s.
Conductivity Range	Fluid conductivity ≥50μs/cm (integrated type), water conductivity in the range of 200-800μs/cm.
Signal Output	Pulse, 4-20mA, RS485
Digital Frequency Output	The frequency can be set from 1-5000Hz. When the external power supply is ≤35V, the maximum collector current is 250mA.
Power Supply	85-265V/45-63HZ, DC24V; Battery powered
Connection Method	Flanges, threads, clamps
Explosion-proof Mark	Ex db mb IIC T6 Gb
Ambient Temperature and Humidity	-25℃ ~ +60℃; 5%RH ~ 95%RH
Total Power Consumption	< 20W

Insertion Electromagnetic Flow Meter Technical Parameters

Nominal Diameter (mm)	DN100 ~ DN3000	Accuracy	Level 1.5
Dielectric Conductivity	Greater than 50 μs/cm	Operating Pressure	1.6MPa
Measuring Tube Material	ABS	Media Temperature	0℃ ~ 60℃
Communication Function	RS485 Modbus RTU protocol	Protection Class	IP65 or IP68
Electrode Material	Molybdenum-containing stainless steel 0Cr118Ni12Mo2Ti, Hastelloy HC/HB, titanium (Ti), tantalum (Ta), platinum (Pt), etc.		
Output Signal	For a 4~20mA load, the resistance is 0~500Ω; for a frequency of 1~5KHz, the load resistance is 250~1.2kΩ.		

Electromagnetic Heat Meter Technical Parameters

Work Mode	Heat meter mode: Only calculates heat output; this is the meter's default mode. "H" indicates heat output.
	Cool meter mode: Only calculates cooling output. "R" indicates cooling output.
	Cool/Heat meter mode: Calculates both heat and cold output, and displays them separately.
Nominal Diameter	DN10 ~ DN2000
Flow Rate Unit	L/s、L/m、L/h、m³/s、m³/m、m³/h; Total Unit: m³, L
Cold/Heating Unit	Four options are available: MJ/h, GJ/h, KWh/h, and MWh/h.; Total Unit: MJ、GJ、KWh、MWh
Measuring Damping Time	In other words, the filtering time. A longer measurement damping time improves the stability of the instrument's flow display and output signal, making it suitable for measuring pulsating flow rates with total accumulation.
	A shorter measurement damping time results in a faster measurement response, making it suitable for production process control.
Flow Direction Selection	If the fluid direction during commissioning is inconsistent with the design, there is no need to change the connection of the excitation line or signal line; simply adjust the flow direction setting parameters.
Flow Zero-Point Correction	Zero-point correction should be performed only when the sensor tube is filled with fluid and the fluid is stationary. The flow rate zero point is expressed as flow velocity, in mm/s.
Small Signal Cutoff Point	The small signal cutoff point setting is expressed in terms of flow rate. When a small signal is cut off, only the flow rate is displayed; the cutoff flow rate, percentage, and signal output are also shown.

Temperature Difference Signal Removal	When the inlet and outlet temperature difference is lower than this setting, the instrument does not calculate heat or cold energy.
Reverse Measurement Prohibited	It features a reverse output disable function. When "disabled," heat and cooling are not calculated, there is no output, and only the flow rate is displayed. When "allowed," the heat meter functions normally. Since heat and cooling should not be calculated in the reverse flow direction in principle, the default setting is "disabled."
Output Parameters	Current Output: Flow rate, heat output, cooling output, hot/cold output, hot/cold status output, flow direction output
	Pulse Output: Flow pulse, heat pulse, cooling pulse, hot/cold pulse
	Frequency Output Upper Limit: Frequency corresponds to the percentage of flow rate output (not corresponding to heat or cooling), range selectable 1~5000
	Heat/Cold Meter Measurement Start Water Temperature: When the temperature is lower than the set temperature, the instrument will not calculate heat or cooling.
Temperature Parameters	Operating pressure parameters: 0.6MPa and 1.6MPa are available.
	Inlet and outlet temperature zero point, temperature calibration: Three-wire bridge connection for Pt1000 and Pt100
	RTDs.The RTD has the option to select between Pt1000 and Pt100 RTDs.

Electrode Material Description

Material	Corrosion Resistance
Molybdenum-containing stainless steel (Ocr18Ni12Mo2Ti)	Nitric acid, sulfuric acid (<5% at room temperature), boiling phosphoric acid, formic acid, alkaline solutions, sulfurous acid under certain pressure, seawater, and acetic acid.
Hastelloy C, Hastelloy B (HC, HB)	Resistant to oxidizing acids, oxidizing salts, seawater, non-oxidizing acids, non-oxidizing salts, alkalis, and sulfuric acid at room temperature.
Titanium (Ti)	Seawater, various chlorides and hypochlorous acid, chlorinated acids (including fuming nitric acid), organic acids, and alkalis.
Tantalum (Ta)	All chemical media except hydrofluoric acid, fuming sulfuric acid, and alkalis, including hydrochloric acid and nitric acid with boiling points <175℃.
Platinum (Pt)	Various acids, alkalis, and salts, excluding aqua regia.

* The electrode material should be selected according to the corrosiveness of the fluid being tested. Please refer to the relevant corrosion handbook. For special fluids, a test should be performed.

Lining Material Description

Name	Main Performance	Medium Temperature	Applicable Media
Neoprene	1. Good elasticity, high tensile strength, and good wear resistance.	<80℃	Water, sewage, mildly abrasive mud, slurry
	2. Resistant to corrosion from general low-concentration acids, alkalis, and salts; not resistant to corrosion from oxidizing media.		
Polyurethane	1. Excellent wear resistance	<60℃	Neutral, highly abrasive mineral slurry, coal slurry, and mud.
	2. Poor resistance to acid and alkali corrosion		
polytetrafluoroethylene (F4/PTFE)	1. It can resist most chemical media, including boiling hydrochloric acid, sulfuric acid, nitric acid, and aqua regia, as well as concentrated alkalis and various solvents. However, it is not resistant to corrosion from chlorine trifluoride, high-temperature oxygen trifluoride, high-flow-rate liquid fluorine, liquid oxygen, and ozone.	<120℃	Highly corrosive media such as concentrated acids and alkalis, and sanitary media
	2. Its abrasion resistance is not as good as polyurethane rubber, and its resistance to negative pressure is not as good as neoprene rubber.		
Teflon (F46/FEP)	1. Not resistant to fuming nitric acid and butyllithium; other chemical properties are basically the same as polytetrafluoroethylene (PTFE).	<80℃	Highly corrosive media such as concentrated acids and alkalis, and sanitary media
	2. Higher resistance to negative pressure than PTFE.		

* The lining material should be selected based on the corrosiveness, abrasiveness, and temperature of the medium being tested.

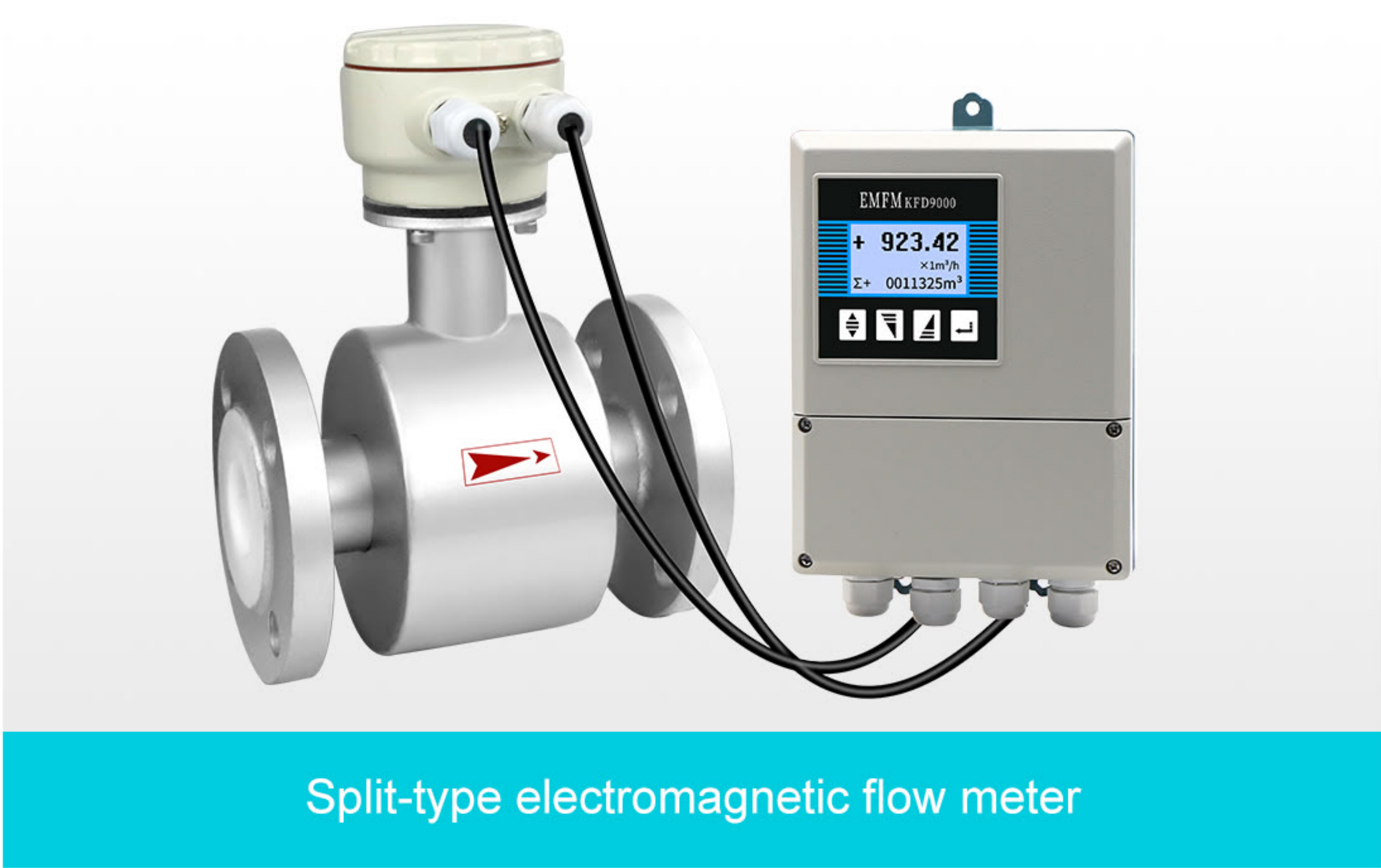
Pipeline-Flow Rate and Velocity Comparison Table

Flow (m³/h) Caliber	Flow rate (m/s)	0.5	1	1.5	2	2.5	3	4	5
DN10		0.141	0.283	0.424	0.564	0.707	0.848	1.131	1.414
DN15		0.318	0.636	0.954	1.28	1.59	1.909	2.55	3.181
DN20		0.565	1.131	1.696	2.3	2.83	3.39	4.52	5.655
DN25		0.884	1.767	2.651	3.6	4.42	5.3	7.07	8.836
DN32		1.448	2.9	4.343	5.8	7.24	8.69	11.58	14.48
DN40		2.262	4.52	6.79	9.2	11.31	13.57	18.1	22.62
DN50		3.534	7.07	10.6	14.4	17.67	21.21	28.27	35.34
DN65		5.973	11.95	17.92	24	29.87	35.84	47.78	59.73
DN80		9.048	18.1	27.14	36.8	45.24	54.29	72.38	90.48
DN100		14.14	28.27	42.41	56.8	70.69	84.82	113.1	141.37
DN125		22.11	44.18	66.268	90	110.45	132.54	176.72	220.89
DN150		31.81	63.62	95.43	127.8	159.04	190.85	254.47	318.09
DN200		56.55	113.1	169.65	228	282.74	339.29	452.39	565.49
DN250		88.36	176.72	265.07	360	441.79	530.14	706.86	883.57
DN300		127.23	254.47	381.7	512	636.17	763.41	1017.88	1272.35
DN350		173.18	346.31	519.54	700	865.9	1039.08	1385.44	1731.8
DN400		226.2	452.39	678.58	920	1130.97	1357.17	1809.56	2261.95
DN450		286.28	572.56	858.83	1160	1431.39	1717.67	2290.22	2862.78
DN500		353.43	706.86	1060.29	1413.72	1767.15	2120.58	2827.43	3534.29
DN600		508.94	1017.88	1526.81	2035.75	2544.69	3053.63	4071.5	5089.38

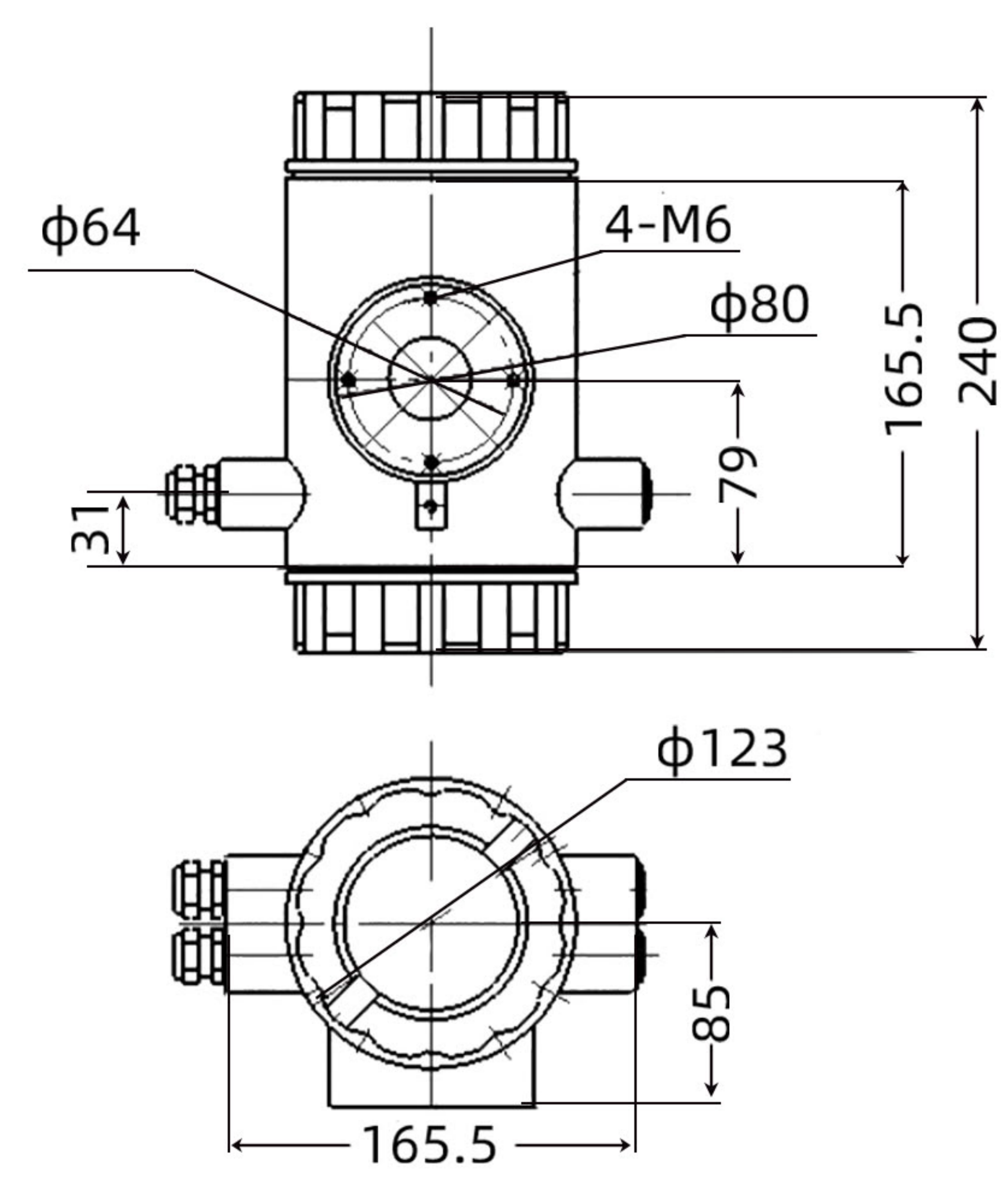
Insertable - Flow Rate and Velocity Comparison Table

Flow (m³/h) Caliber	Flow rate (m/s)	0.1	0.2	0.4	0.5	1	5	10	12
DN100		2.83	5.65	11.31	14.14	28.27	141.37	282.7	339.24
DN125		4.42	8.84	17.67	22.09	44.18	220.89	441.8	530.16
DN150		6.36	12.7	25.5	31.81	63.62	318.09	636.2	763.44
DN200		11.3	22.6	45.2	56.55	113.1	565.49	1131	1357.2
DN250		17.7	35.4	70.7	88.36	176.7	883.57	1767	2110.4
DN300		25.46	51	102	127.24	254.5	1272.35	2545	3054
DN350		34.64	69	139	173.2	356.4	1731.8	3464	4156.8
DN400		45.24	90	181	226.2	452.4	2261.9	4524	5428.8
DN450		57.3	114	229	286.3	572.6	2862.8	5726	6871.2
DN500		70.7	141	283	353.4	706.9	3534.3	7069	8484.8
DN600		102	203	407	508.9	1018	5089.4	10179	12216
DN700		139	277	554	692.7	1385	6927.2	13854	16620
DN800		181.0	362	723	905	1810	9047.8	18096	21720
DN900		229.0	458	916	1145	2290	11451	22902	27480
DN1000		283	565	1131	1414	2827	14137	28274	33924

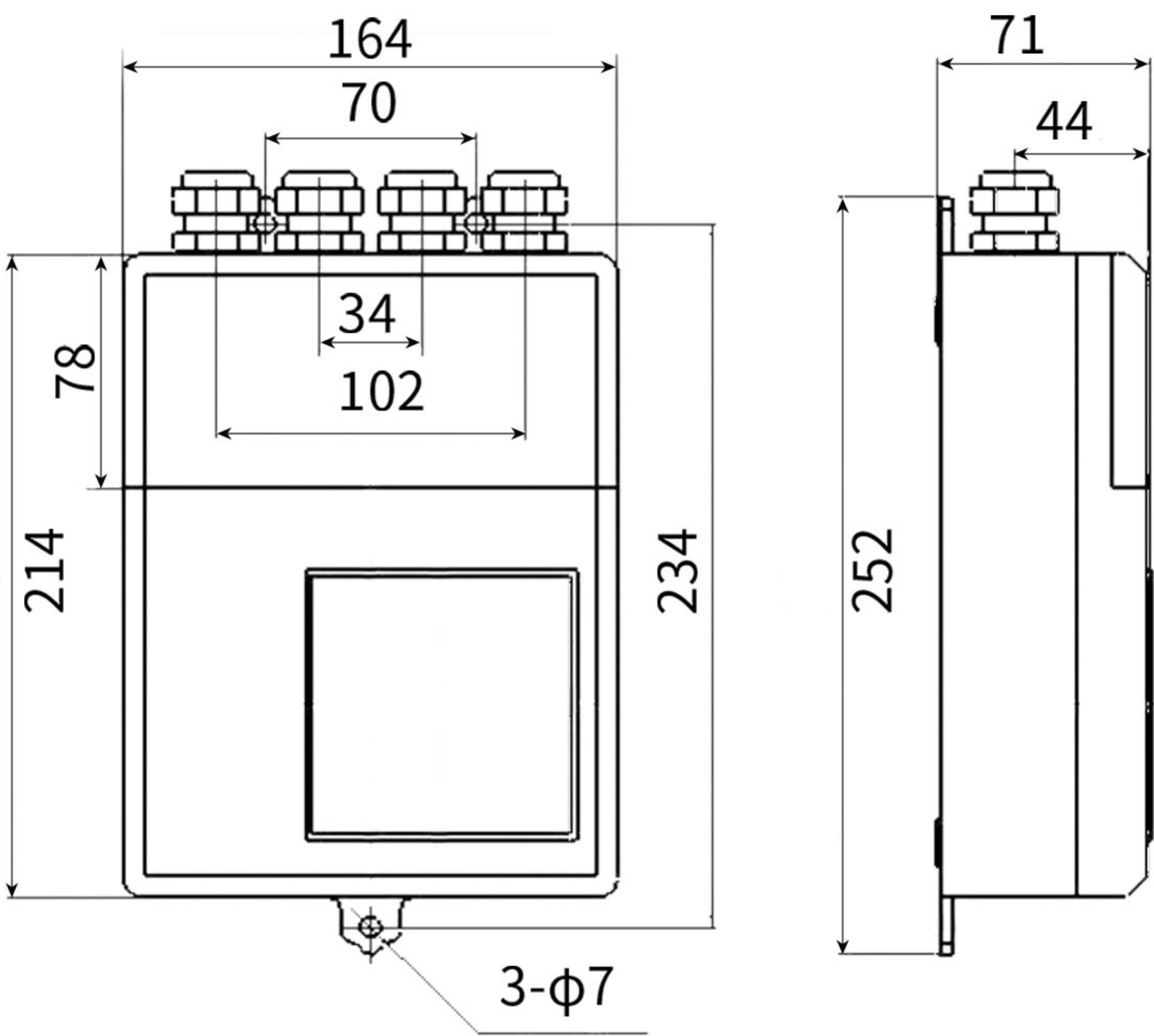
Multiple Models Available



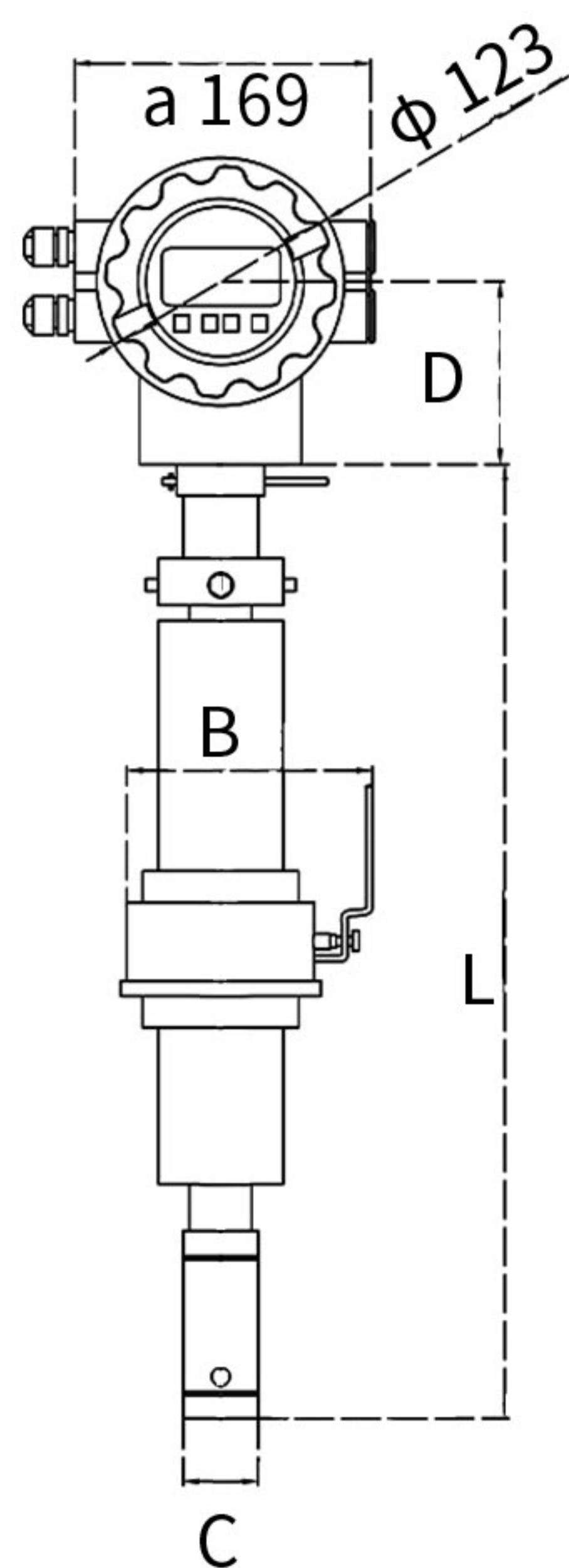
Product Dimensions (Unit: mm)



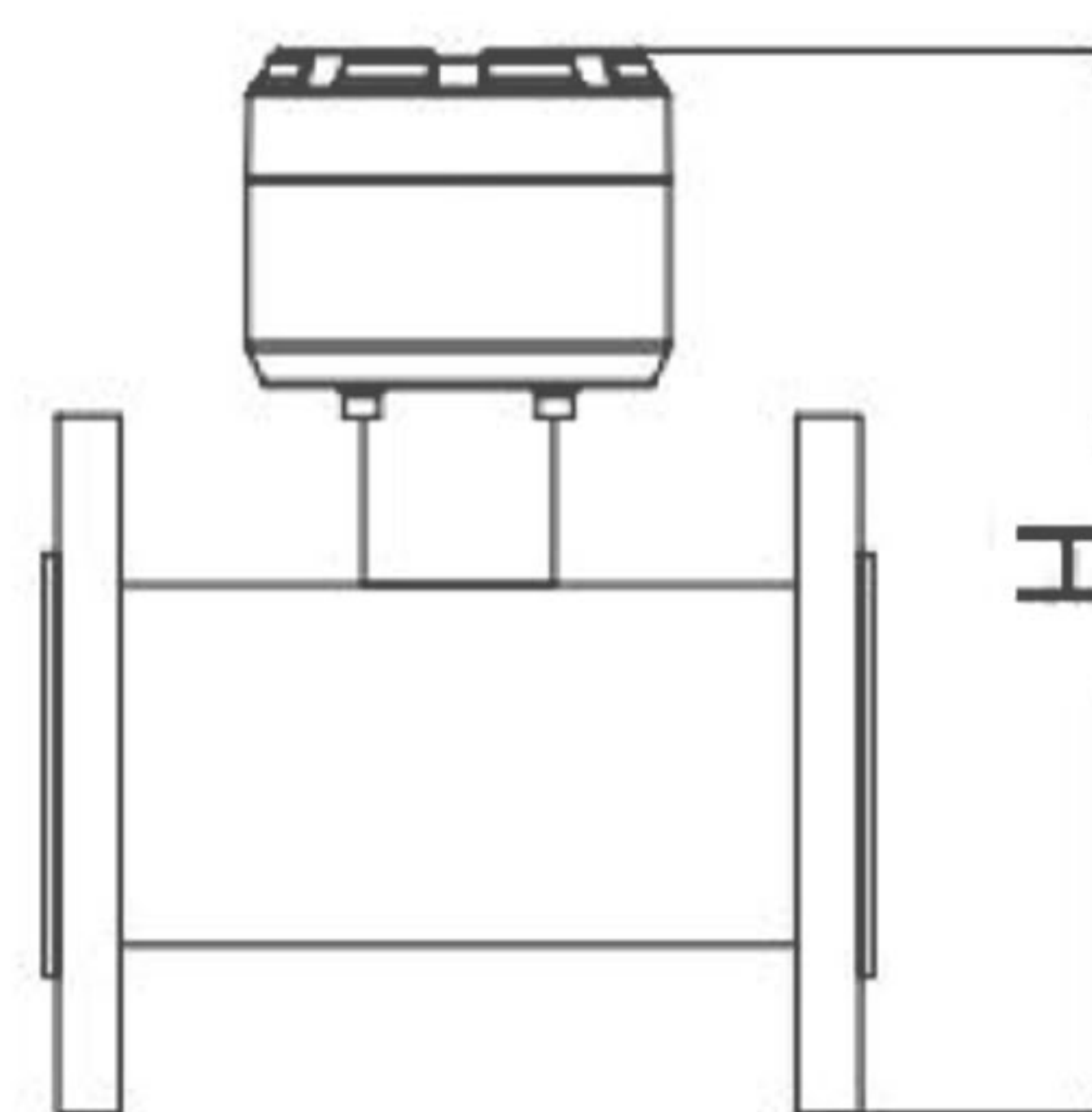
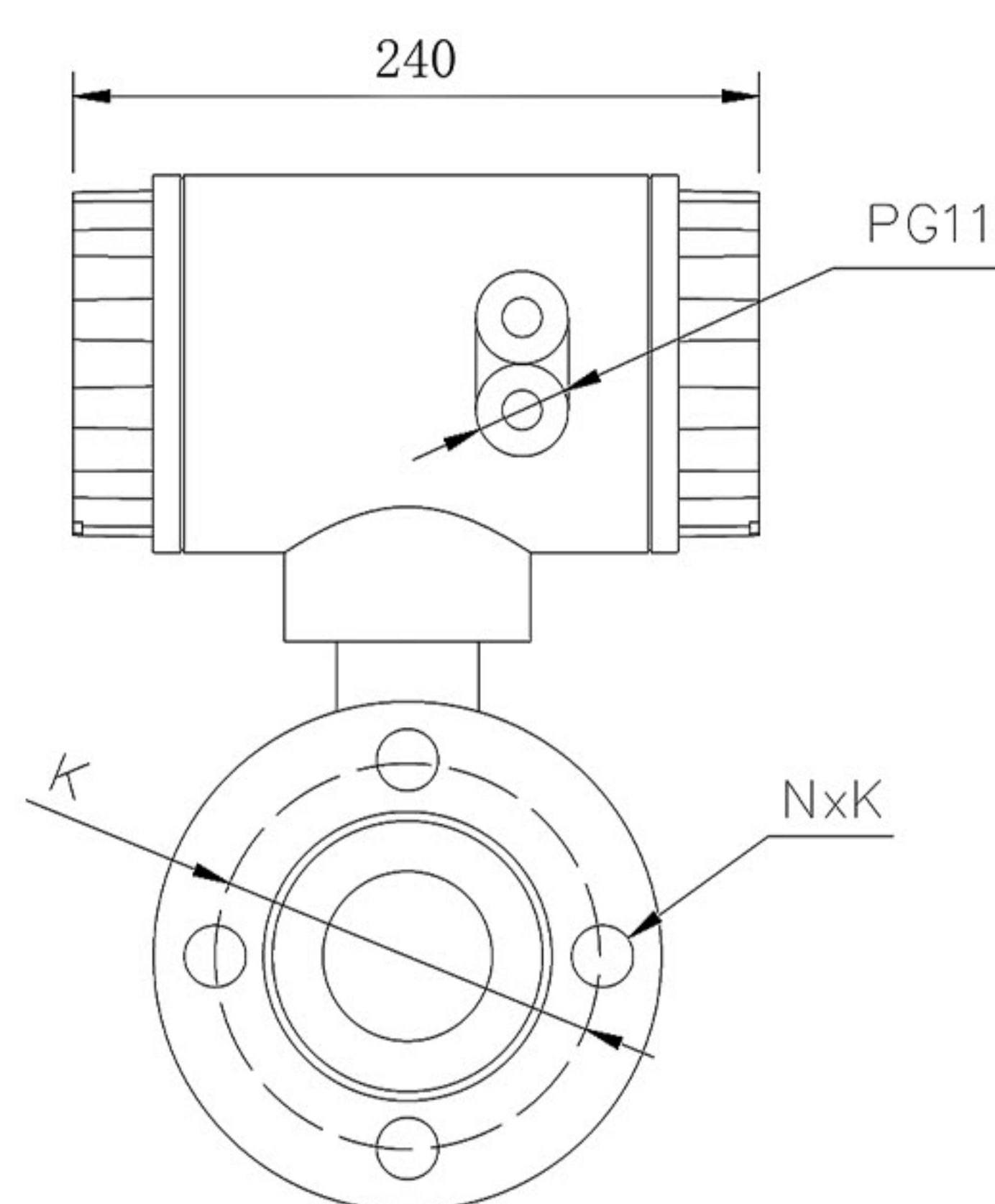
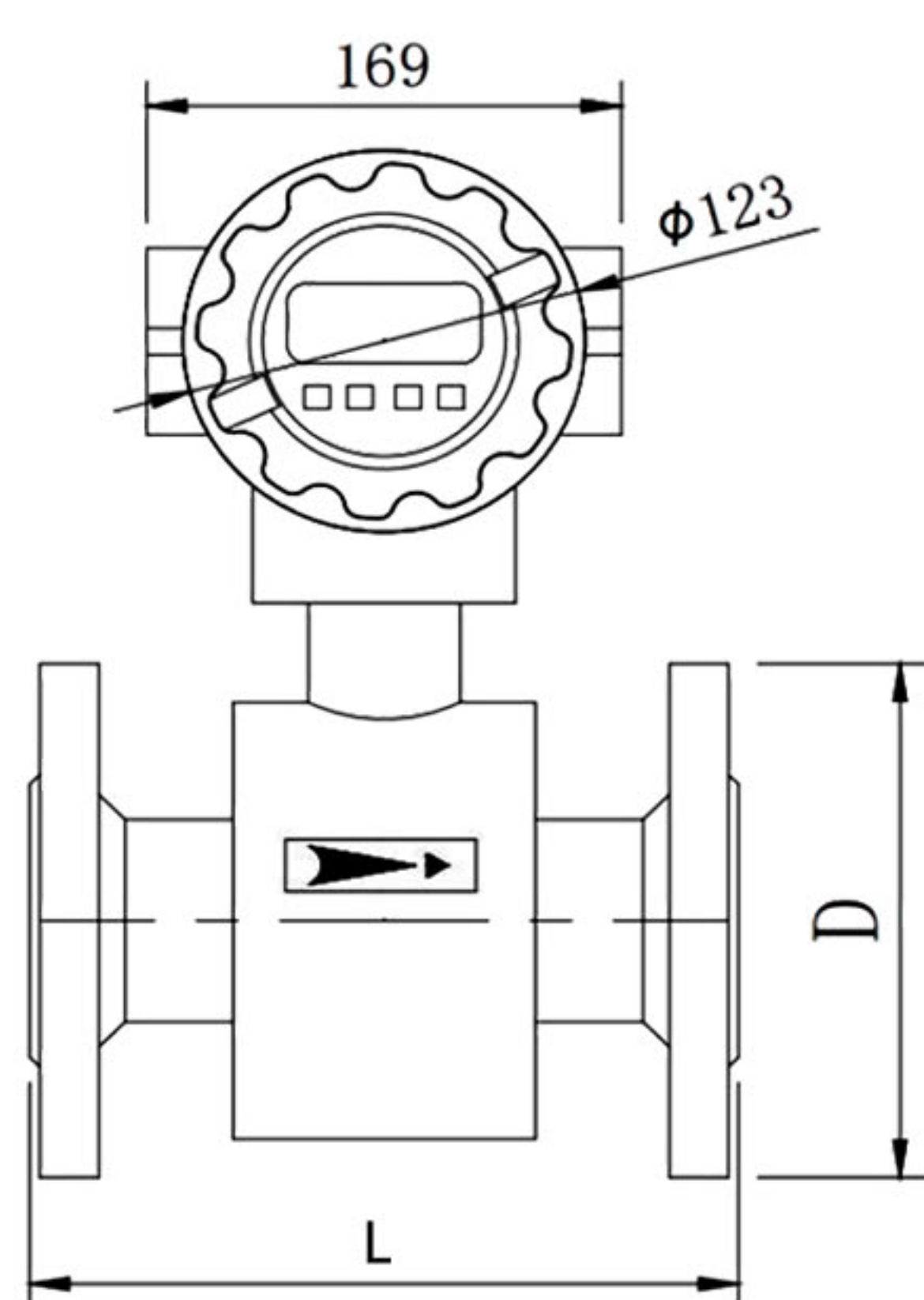
Dimensions of a single circular shell



Square shell split type external dimension drawing



Nominal Diameter	a	B	C	D	φ	L
DN150	169	112	60	85	123	650
DN200	169	112	60	85	123	650
DN250	169	112	60	85	123	650
DN300	169	112	60	85	123	650
DN350	169	112	60	85	123	750
DN400	169	112	60	85	123	750
DN450	169	112	60	85	123	750
DN500	169	112	60	85	123	750
DN600	169	112	60	85	123	800
DN700	169	112	60	85	123	850
DN800	169	112	60	85	123	900
DN900	169	112	60	85	123	950
DN1000	169	112	60	85	123	1000



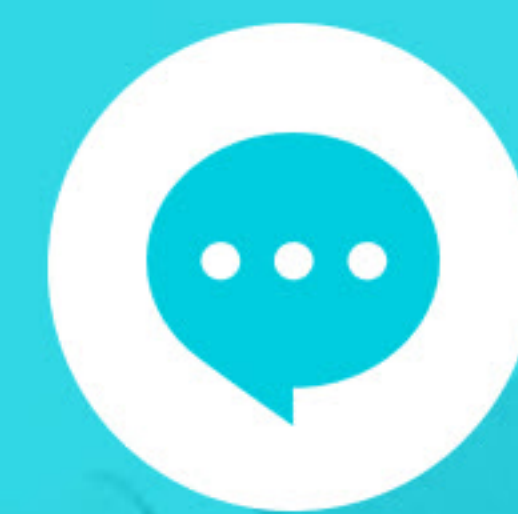
Nominal Diameter	L	D	K	H	Pressure Level(MPa)	Mounting Holes (N×K)
DN10	200	90	60	220	4.0	4×14
DN15	200	95	65	220	4.0	4×14
DN20	200	105	75	220	4.0	4×14
DN25	200	115	85	220	4.0	4×14
DN32	200	140	100	220	4.0	4×18
DN40	200	150	110	220	4.0	4×18
DN50	200	165	125	225	4.0	4×18
DN65	200	185	145	225	1.6	4×18
DN80	250	200	160	275	1.6	8×18
DN100	250	220	180	285	1.6	8×18
DN125	250	250	210	315	1.6	8×18
DN150	300	285	240	345	1.6	8×22
DN200	350	340	295	400	1.6	12×22
DN250	450	395	350	465	1.6	12×22
DN300	500	445	400	505	1.0	12×22
DN350	550	505	460	575	1.0	16×22
DN400	600	565	515	625	1.0	16×26
DN450	600	615	565	670	1.0	20×26
DN500	600	670	620	725	1.0	20×26
DN600	600	780	725	835	1.0	20×30

Electromagnetic Flow Meter Selection Table											
Model								Selection Guide			
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Model	LBG-							General converter			
	LCG-							Lanshen high-frequency converter			
	LDG-							Lanshen converter			
	LEG-							Pangu converter			
Nominal Diameter	10							DN10mm pipe			
	...							...			
	2000							DN2000mm pipe			
Converter Type		A							All-in-one		
		B							split type		
		C/CF							Insert-type [Insert-type Split CF]		
Connection Method (pipe type)			L						Threaded connection (integrated threaded structure)		
			L1						Threaded connection (combined threaded structure)		
			F						Flange connection		
			K						Clamp connection (integrated chuck structure)		
			K1						Clamp connection (combined chuck structure)		
			J						High-pressure flange clamping		
Accuracy Level			J1						0.5 class measurement accuracy (for pipe-segment LDG and LEG)		
			J2						1.0 class measurement accuracy (for pipe-segment LBG)		
			J3						1.5 class measurement accuracy (for insertion-type LDG and LEG)		
			J4						2.0 class measurement accuracy (for insertion-type LBG)		
Lining Material (insert omitted)			C1						Chloroprene rubber (CR)		
			C2						Polyurethane rubber (PU)		
			C3						Polytetrafluoroethylene (F4/PTFE)		
			C4						Teflon (F46/FEP)		
Electrode Material			D1						316L Electrode		
			D2						Titanium Alloy Electrode		
			D3						HB Electrode		
			D4						HC Electrode		
			D5						Tantalum Electrode		
			D6						Tungsten Carbide Electrode		
			D7						Scraper Electrode		
			D8						Platinum Electrode		
Valve Body Material			K1						Carbon steel		
			K2						304 stainless steel		
			K3						316L stainless steel		
Explosion-Proof Type				-						No explosion-proof	
				E						Explosion-proof, ExdIICT6 Gb	
Pressure Level				N						Normal pressure	
				HPx						HP1=2.5MPa,HP2=4MPa,HP3=6.3MPa,HP4=10MPa,HP5=16MPa,HP5=25MPa	
Protection Level				F						IP68 waterproof type (suitable for split unit); IP67 waterproof type (suitable for LDG integrated unit)	
Power Supply				V0						220VAC power supply	
				V1						24VDC power supply	
				V2						Lithium battery power supply	
Heat Meter				RLB						Default PT1000	
				RLB1						Default PT100	



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.



Contact
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Guide



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booking

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