



K-Series Coriolis Flowmeters



Stability
Success
Superbness



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QINGDAO ADD VALUE FLOW METERING CO., LTD.

Add Value Introduction

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Qingdao Add Value Flow Metering Co., Ltd. is located in Qingdao Free Trade Zone. It is a high-tech enterprise integrating R&D, production, sales, and service. Since its establishment, Add Value Flow has been dedicated to the R&D and manufacturing of fluid measurement products. It has independently developed two major product lines – Coriolis flowmeters and Online Vibrating Tube Liquid Density Meters – and has been granted national invention patents. The company possesses advanced equipment and has established a complete production and inspection process. It has successfully obtained ISO9001 Quality Management System, ISO14001 Environmental Management System, and ISO45001 Occupational Health Management System certifications. Currently, the company's products are distributed nationwide and widely used in applications such as quantitative loading automation for Sinopec, PetroChina, and various large refineries, as well as chemical process quality control. Its stable and accurate fluid measurement services have won unanimous praise from customers.

Add Value Flow is committed to innovation, adhering to the business philosophy of "stability builds outstanding quality" and focusing on developing core competitiveness. Its unique core technology perfectly solves the issue of zero drift, effectively ensuring long-term stable operation of the products. All products come with a 12-month warranty, freeing you from any worries.

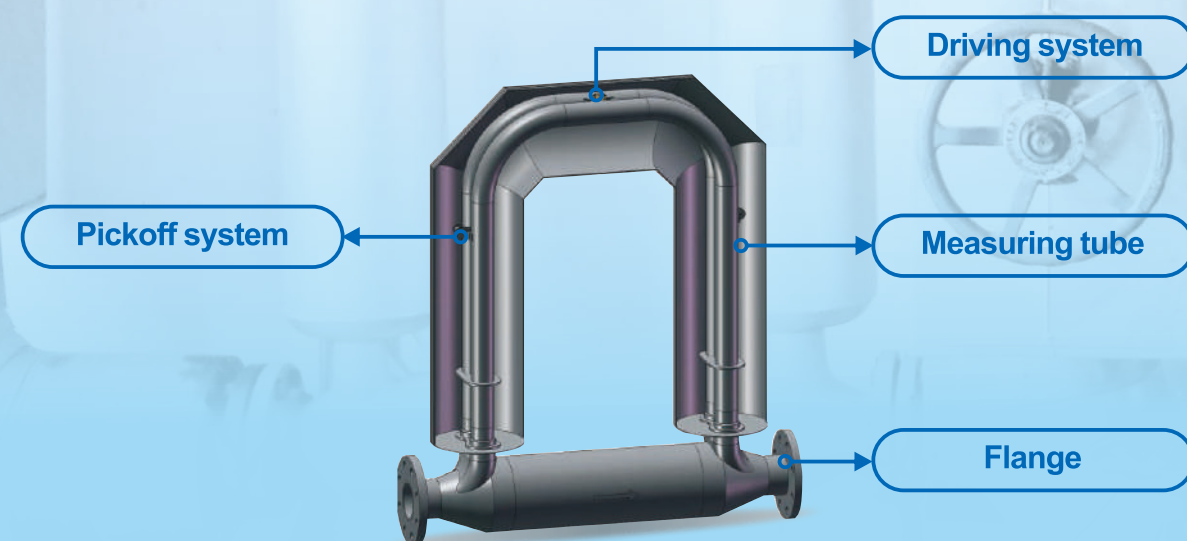
We look forward to becoming your trusted partner!

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Coriolis Flowmeter

Coriolis flowmeter operates based on the Coriolis effect, by measuring the Coriolis force of fluid received in the tube, it can directly measure the mass flow of the process fluid in the tube.

The flowmeter utilizes the Coriolis force, which is influenced solely by the fluid's mass and velocity. Thus it can ensure accurate flow and density measurement, unaffected by variations in temperature, pressure, or fluid density, even in challenging environmental conditions. realize the high-precision and accurate measurement.



Measurement principles

Coriolis effect is a description of the deviation of a linear motion particle in a rotating system due to inertia relative to the linear motion of the rotating system.

The flowmeter is a typical application of Coriolis Effect. It allows the measured fluid to pass through a measuring tube in vibration. The flow of fluid in the tube is equivalent to linear motion. The vibration of the measuring tube will produce an angular velocity. Because the vibration is driven by an applied electromagnetic field, it has a fixed frequency, so the Coriolis effect received by the fluid in the tube is only related to its mass and speed of motion, and the product of mass and speed of motion, that is, the flow velocity is the mass flow rate that needs to be measured, so by measuring the Coriolis effect of the fluid in the tube, its mass flow can be obtained.

K-Series Coriolis Flowmeter

The K-Series Coriolis Flowmeter is composed of two parts: BPM transmitter & K-Series Sensor.

BPM Transmitters



BPM-B



BPM-E

K-Series Sensors



K010



K050



K300



K350

Meter Advantages

High Mass Accuracy



Measurement error is less than $\pm 0.1\%$

Through the optimization of the structural parameters of the flowmeter sensor and the application of digital technology to the transmitter, the mass measurement error of the K-Series Flowmeters are less than $\pm 0.1\%$, and the repeatability are higher than $\pm 0.025\%$.

High Density Accuracy



Measurement error is less than $\pm 0.0005\text{g/cm}^3$

K-Series Flowmeters realize direct online real-time density measurement, which is safe, convenient and reliable. They eliminate the disadvantages of manual measurement and improves the efficiency of operators.

High Temperature Accuracy



Measurement error is less than $\pm 0.2^\circ\text{C}$

K-Series Flowmeters use PT100 temperature sensors, cooperate with precision measurement circuits and advanced temperature compensation algorithms, to provide reliable guarantee for accurate measurement of flow rate and density.

Good Zero Stability



To ensure long-term stable operation

Zero stability is critical in assessing the measuring accuracy and long-term stability of mass flow meters. K-Series Flowmeters incorporate original technology with national and USA invention patents, ensuring ultimate zero stability, which enables reliable measurement for the most complex applications.



Meter Advantages

Fast Response Time



Suitable for small batch and short time filling

K-Series Flowmeters transmitters use digital algorithms to increase the sampling rate, greatly shorten the response time, and ensure the consistency of small batch and short time filling.

Wide Turndown



Turndown 40:1

K-Series Flowmeters use digital algorithms to filter out more noise and ensure the measurement accuracy of low flow rates. The turndown can reach 40:1.

Long Service Life



Designed for 20 years of service life

The gears, rotors and other components of traditional Positive Displacement Flowmeters are easily affected by fluid erosion and need to be cleaned or replaced regularly.

The principle of the K-Series Flowmeters determine that it has no obstacles and moving parts inside, and there are no problems such as wear and tear. It fully guarantees its service life and accurately measures and greatly reduces maintenance costs, saving time, effort, and energy .

Other Advantages



More reminder functions

K-Series transmitters can measure more variables and offer more accurate status indications, such as reminders of gas-liquid two-phase flow status.

Transmitter Advantages (BPM-B)

1 Drift Self-Compensation

Using drift self-compensation technology and real-time calibration to achieve high-precision measurements.



2 Unified Scale

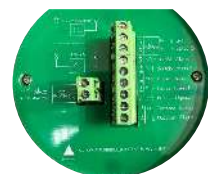
Unified scaling enables equal-accuracy interchangeability of transmitters, making maintenance and servicing more convenient for users.

3 Dynamic Compensation

Dynamic compensation minimizes the impact of external factors, such as process temperature and pressure, on measurement accuracy.

4 Customizable Multi-Channel Communication

Various communication interfaces can be customized as required, with support for up to four channels. Current inputs, digital I/O, and multiple communication protocols can be integrated into a single device.

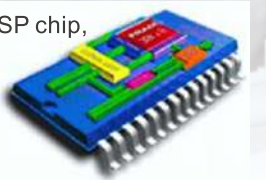


Transmitter Advantages (BPM-E)

1 Digital Signal Processing

Structure High-speed floating-point DSP chip, variable sampling rate, up to 32kHz.

Function High calculation accuracy, small cumulative error; reduces temperature drift and time drift.



2 Single-core Processor

The circuit board is sealed with adhesive to prevent corrosion and moisture absorption.



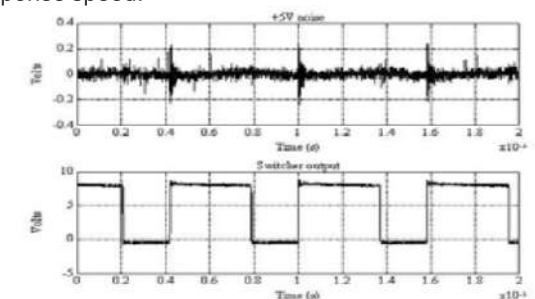
3 Stable and Reliable

Using row-based connection, it is stable and reliable, and can seamlessly replace Emerson's 1700 and 2700 core processors.

4 Frequency Spectrum Estimation Method

Method Leveraging combined time and frequency domain data to both calculate phase differences and forecast signal trends.

Function Enhance stability, improve accuracy and increase response speed.



5 Online Diagnostics

Online diagnosis and recording of instrument status enable process traceability.

Performance Specifications

Accuracy and Repeatability

Mass Flow	Model	Process Connection	Nominal Flow Rate ^① kg/h	Maximum Flow Rate kg/h	Zero Stability ^⑤ (BPM-B)	Zero Stability ^⑤ (BPM-E)
	K005	DN10/DN15/DN20/DN25	19.5	28	0.0010	0.0005
	K010	DN10/DN15/DN20/DN25	96	110	0.0048	0.0024
	K015	DN10/DN15/DN20/DN25	270	310	0.0135	0.0068
	K025	DN15/DN20/DN25	1,000	1,420	0.05	0.025
	K050	DN15/DN20/DN25	3,000	4,200	0.15	0.075
	K075	DN25/DN32	7,700	11,000	0.39	0.19
	K100	DN25/DN32/DN40	15,200	21,600	0.76	0.38
	K150	DN40/DN50/DN65	32,500	46,000	1.63	0.81
	K200	DN40/DN50/DN65/DN80	52,500	75,000	2.63	1.31
	K280	DN80/DN100/DN125	96,000	136,000	4.80	2.4
	K300	DN80/DN100/DN125/DN150	155,000	220,000	7.75	3.88
	K350	DN100/DN125/DN150	290,000	403,000	14.50	7.25
	K400	DN150/DN200/DN250	462,000	652,000	23.10	11.55
	K600	DN200//DN250	950,000	1,550,000	47.50	23.75

Transmitter Type		BPM-B	
Turndown from Maximum Flow Rate ^④		20: 1	30: 1
Mass Flow Accuracy ^②		±0.1%	±0.15%
Mass Flow Repeatability		±0.025%	
Volume Flow Accuracy ^③		±0.1%	

Transmitter Type		BPM-E	
Turndown from Maximum Flow Rate ^④		30: 1	40: 1
Mass Flow Accuracy ^②		±0.1%	±0.15%
Mass Flow Repeatability		±0.025%	
Volume Flow Accuracy ^③		±0.1%	

①Nominal flow rate is the flow rate at which water at reference conditions causes approximately 0.1 Mpa of pressure drop across the meter. Maximum flow rate is the flow rate at which water at reference conditions causes approximately 0.2 Mpa of pressure drop across the meter.

②Stated flow accuracy includes the combined effects of repeatability, linearity, hysteresis. Liquid indicators are based on water at 20 ~ 25°C and 0.1 ~ 0.2 Mpa reference conditions, unless otherwise stated.

③The volume flow accuracy is based on the process fluid with a density of 1 g/cm³. For process fluids with a density other than 1 g/cm³, the volume flow is equal to the mass flow / fluid density.

④Turndown is the ratio of maximum flow rate and minimum flow rate.

⑤Zero stability is used when the flow rate approaches the low end of the flow range where the meter accuracy begins to deviate from the stated accuracy rating. The zero stability is measured under the condition of no mount stress.

Performance Specifications

Electrical Parameters

Power Supply (AC or DC)	AC Power Supply	(85 ~ 265) VAC, 50/60 Hz
	DC Power Supply	(18 ~ 100) VDC

Output Signal and Integration

Analog Communication (Two optional output channels)	Typical output channel options: two-way current communication, two-way pulse communication or one-way current communication and one-way pulse communication.	
Pulse Output	Output Range	(0 ~ 10) kHz
	Measured Error	<1 pulse
	Temperature Effect	±0.001% F.S/ °C
Digital Communication	RS485 interface, Modbus communication protocol, Baud Rate Options: 9600, 19200, 38400, etc. Multi-machine communication and Modbus connection are available.	
Current Output	Output Range	(4 - 20) mA
	Measured Error	±0.05%
	Temperature Effect	±0.005% F.S/ °C
Power Consumption	BPM transmitter maximum powers≤11W	

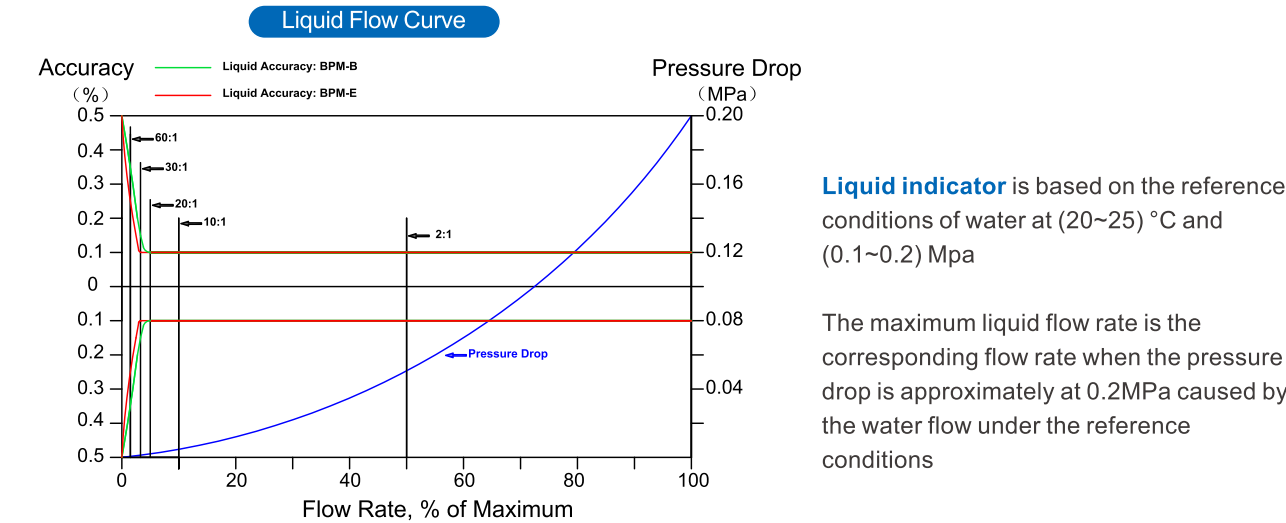
Hazardous Area Classifications

Ex Approval	Sensor	Ex ib IIC T1~T6Gb
	Transmitter	Exd [ib] IIC T6 Gb
	Ex-proof Appliance	Complies with GB3836.1-2010, GB3836.2-2010, GB3836.4-2010.
	Application Area	Applicable to hazardous area Zone1, Zone 2.
	Device Category	IIC, compatible with IIA & IIB
	Temperature Class	T1-T6
Ingress Protection Rating	Sensor	IP66/IP67
	Transmitter	IP66/IP67

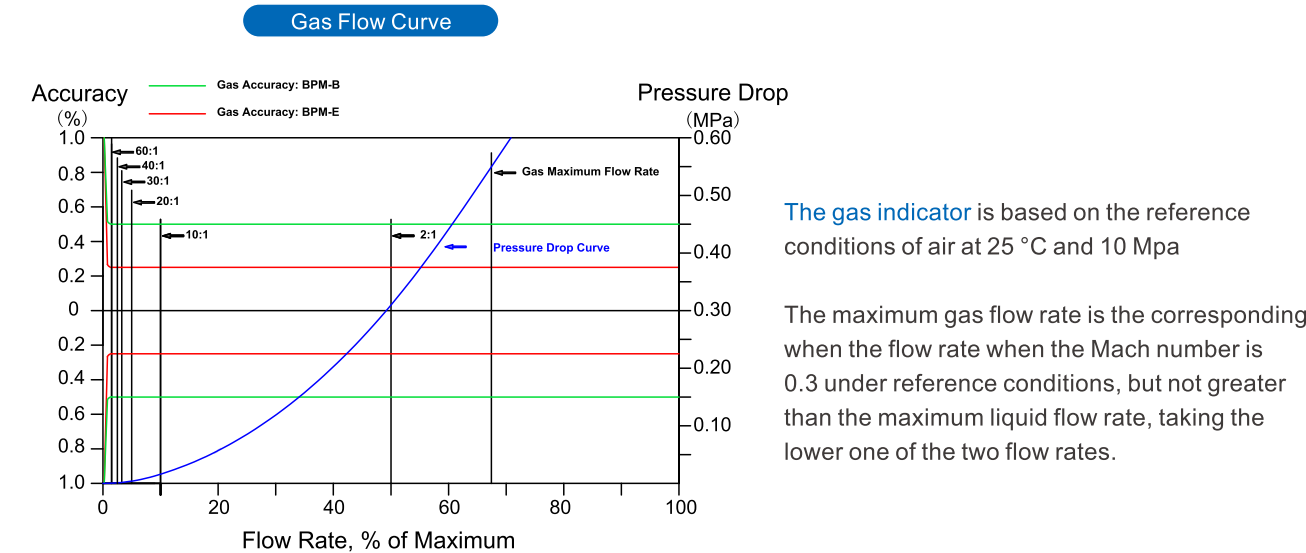
⚠ Separate or integrated installation of the sensor and transmitter does not affect the explosion-proof performance.

Performance Specifications

Typical case of K-Series flowmeter accuracy and pressure drop curves



Tumdown from ① Maximum Flow Rate	60:1	30:1	20:1	10:1	2:1	1:1
Accuracy ^② (±%) (B/E)	0.35/0.25	0.15/0.1	0.1/0.1	0.1/0.1	0.1/0.1	0.1/0.1
Pressure Drop (MPa)	0.00008	0.0002	0.003	0.002	0.051	0.2



Tumdown from ① Maximum Flow Rate	60:1	30:1	20:1	10:1	2:1	1:1
Accuracy ^② (±%) (B/E)	0.5/0.25	0.5/0.25	0.5/0.25	0.5/0.25	0.5/0.25	0.5/0.25
Pressure Drop (MPa)	0.0005	0.0018	0.0004	0.016	0.31	0.55

- ①Tumdown is the ratio of maximum flow rate and minimum flow rate.
- ②Accuracy is the actual measurement accuracy. Since the highest accuracy of "JJG 1038-2008 Coriolis Flowmeter" is 0.15, the relevant certificates and qualifications can only be 0.15.

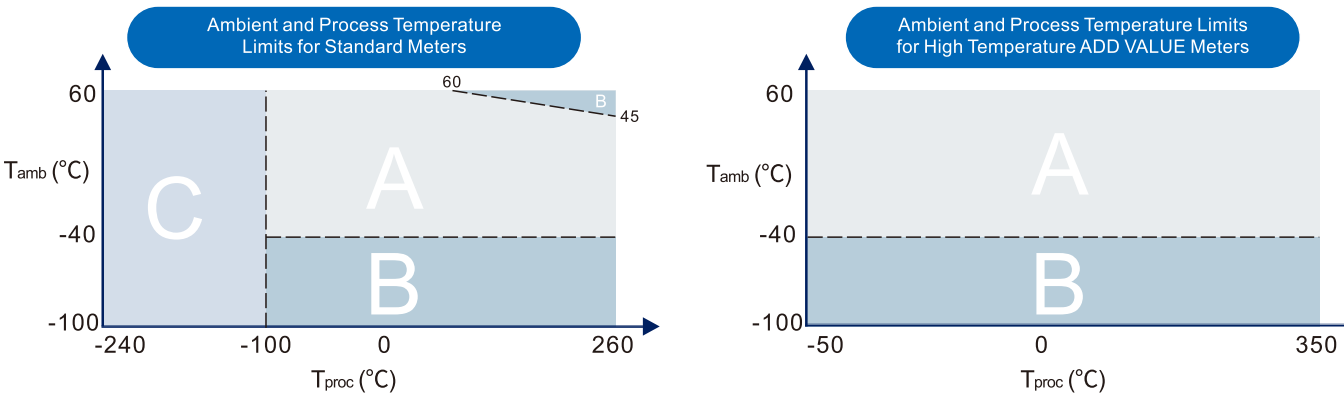
Performance Specifications

Density Performance Indicator (Liquid)

Density Accuracy ①	Repeatability	Measurement Range
±0.0005g/cm ³	±0.0001g/cm ³	(0.2~2.0) g/cm ³
±0.5kg/m ³	±0.1kg/m ³	(200~2000) kg/m ³

- ①Density Accuracy includes the effects of repeatability, linearity, and hysteresis. The density accuracy of ±0.0005 g/cm³ (±0.5kg/m³) is based on water at 20°C and (0.1~0.2) MPa reference conditions. Different operating conditions may lead to a decrease in accuracy.

Temperature Performance Indicators



- A = All available electronic options
B = Remote mount electronics only
C = Recommend special order cryogenic sensor options when operating at a process temperature below -100 °C

- In all cases, the electronics cannot be operated where the ambient temperature is below 40.0 °C or above 60.0 °C. If a sensor is to be used where the ambient temperature is outside of the range permissible for the electronics, the electronics must be remotely located where the ambient temperature is within the permissible range, as indicated by the shaded areas of the temperature limit graphs.
- Sensors can be used in the process and ambient temperature ranges shown in the temperature limit graphs.

Accuracy	Repeatability	Temperature Limit ②	Temperature Measurement Range	Ambient Temperature
±0.2°C	±0.1°C	(-240~ 350)°C	(-240~ 350)°C	Working Temperature (-40~ 60)°C Storage Temperature (-40~ 60)°C

- ②Temperature limits is defined as a temperature range that are installed at hazardous area and further restricted by proof approvals

Calibration System

The top domestic calibration system certified by the China Academy of Metrology-Uncertainty $\pm 0.03\%$

Calibration System	Verification Accuracy	Maximum Flow Rate
Qingdao Add Value	$\pm 0.03\%$	10m/s
Other Factories	$\pm 0.05\%$	7~8m/s

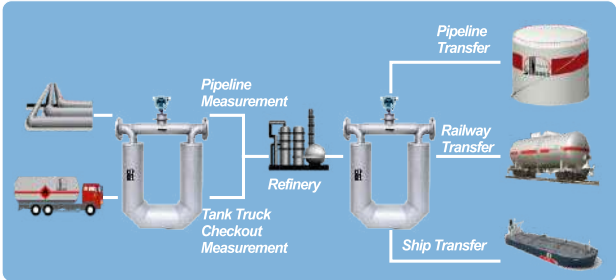


 The key components of the calibration system all use the best original imported equipment: weighing instrument-METTLER TOLEDO's highest-precision electronic scale to ensure calibration accuracy; water pump- Grundfos variable frequency control water pump to ensure stable flow rate.



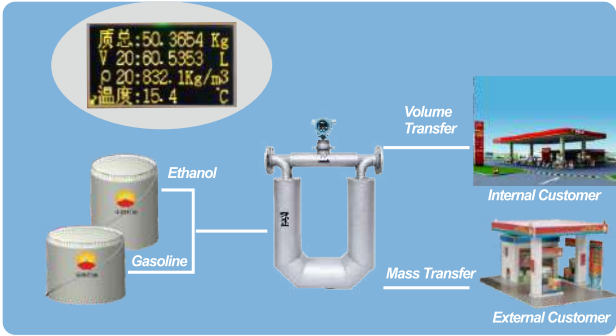
Obtained the verification certificate of "Static Mass Water Flow Standard Device" issued by the National Institute of Metrology of China.

Application Cases



Application in mass custody transfer

The mass measurement error of K-Series Flowmeter is less than $\pm 0.1\%$, with high stability and can realize custody transfer.



Application in standard volume (V₂₀) handover

The mass measurement error of the K-Series Flowmeter is less than $\pm 0.1\%$, the density measurement error is less than $\pm 0.0005 / \text{cm}^3$, the temperature measurement error is less than $\pm 0.2^\circ\text{C}$, and the measurement error of the standard volume (V20) is guaranteed to be less than $\pm 0.15\%$.



Application in ultra-low temperature media

K-Series Flowmeter can be applied to ultra-low temperature media such as LNG and liquid nitrogen with a temperature not lower than -240°C



Application in high temperature and high viscosity media

K-Series Flowmeter can be applied to high temperature and high viscosity media such as maleic anhydride, residual oil, crude oil, resin, maltose etc., whose temperature is not higher than 260°C .

Application Cases

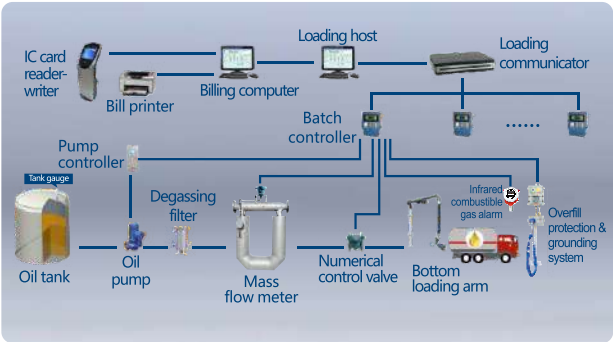
Application in quantitative loading

1. The measurement error of the mass flowmeter is less than $\pm 0.1\%$ to achieve accurate loading and improve loading efficiency;
2. The measurement accuracy is not affected by changes in medium density.

Schematic diagram of quantitative loading automatic pipeline



Application of K-Series Flowmeter in quantitative loading system



Application in process control

K-Series Flowmeters are used for process control, reaction kettle feeding, and directly measure the mass of the medium without being affected by density, simplify the production process, and improve work efficiency.



Application in batch filling

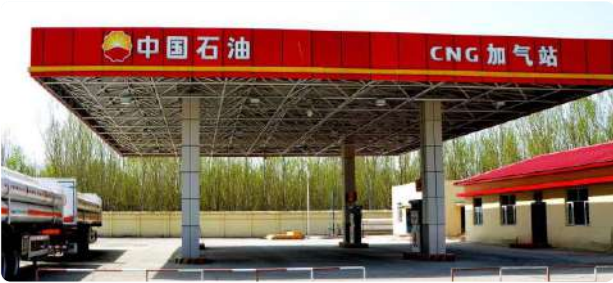
The flow response time of K-Series Flowmeter is 50ms, and the response speed is fast, which ensures the consistency of batch filling.



Application Cases

Application in gas measurement

K-Series Flowmeters can be used to measure gas under high pressure, high flow rate and other working conditions.



Application in oil field

K-Series Flowmeters have good zero stability and can be used for intermittent flow measurement, ensuring accurate measurement of oil output from oil wells.



Application in density measurement

K-Series Flowmeters have no choke or moving parts, its pipeline is wear resistance and its density measurement accuracy is high. It is suitable for the measurement of parameters such as lime slurry concentration, pulp concentration, ammonia concentration, alcohol content, sugar Baume degrees and water content.



Application in high-power equipment fuel detection

K-Series Flowmeters have a wide range ratio, fast response speed, strong anti-interference ability and can detect intermittent flow, suitable for fuel monitoring of large equipment, such as marine fuel monitoring and large equipment fuel consumption monitoring.



Application Cases

Case 1 Ethanol gasoline blending



K-Series Coriolis flowmeters are used for CNOOC ethanol gasoline custody transfer. DN80 caliber flowmeter is used to measure the mass of component oil. DN50 caliber flowmeter is used to measure the mass of ethanol gasoline. Cooperated with automation equipment according to the required ratio, directly display in units of mass in the warehouse.

Case 2 Side-mounted



The K-Series Coriolis flowmeters are directly installed the reaction kettle in the pharmaceutical factory, and at the same time monitor the density of the medium. The side-mounted installation is used due to the insufficient installation space, which solves the problem of insufficient space and at the same time ensures the aesthetics and consistency of the site.

Application Cases

Case 3 Sites with insufficient installation space



It is a transformed oil depot, which is limited by the height of the pipeline, so a ground groove is added below the flow meter, and both ends are fixed to reduce the impact of pipeline vibration on the accuracy of the flow meter. This installation method can be used when the installation space is insufficient.

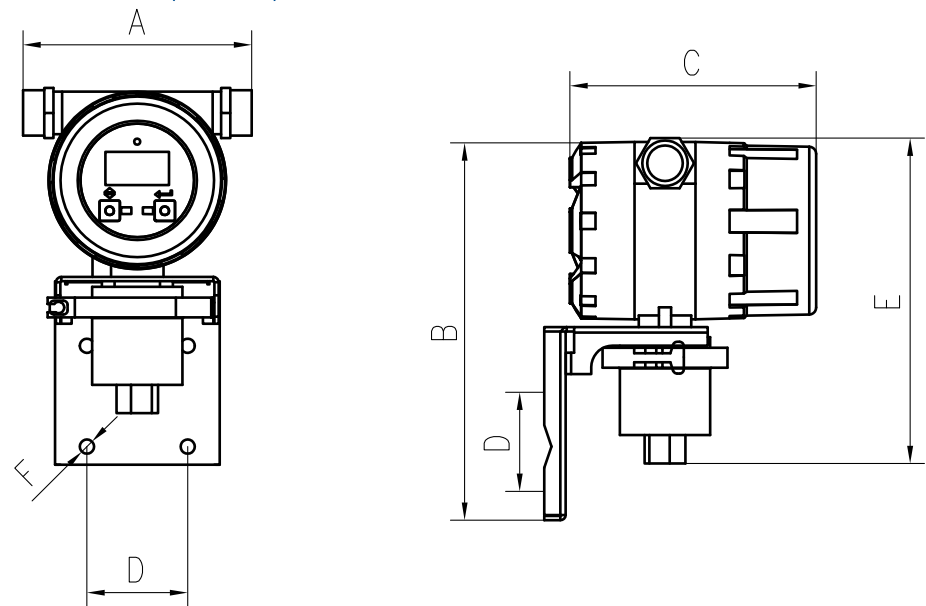
Case 4 Top installation



When the bottom installation space is insufficient, the K-Series Coriolis flowmeters can be installed on the top on the premise of ensuring that the pipeline medium does not contain gas.

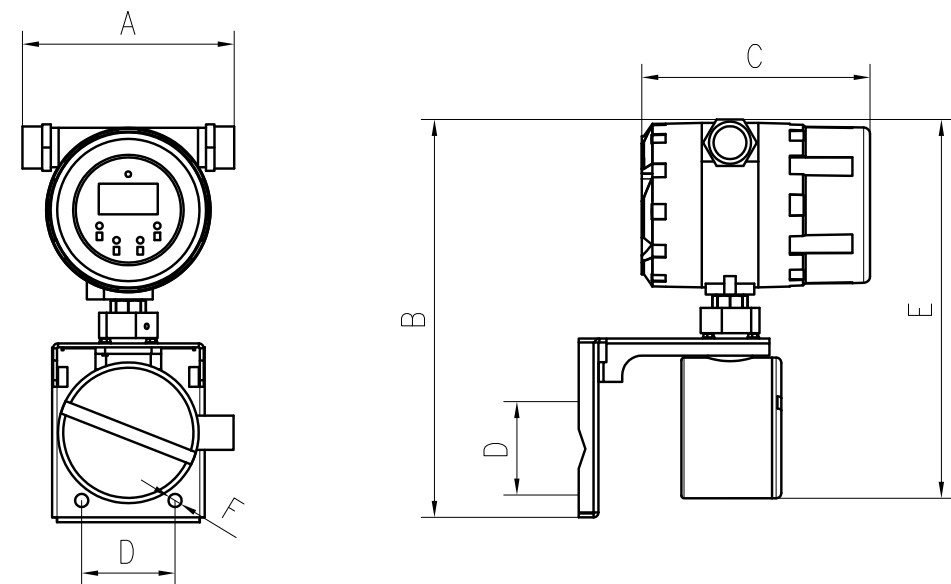
Outline Dimensions

BPM-B Transmitter (Unit: mm)



Model	A	B	C	D	E	F
BPM-B	166	288	174	71	269	4 x Φ10

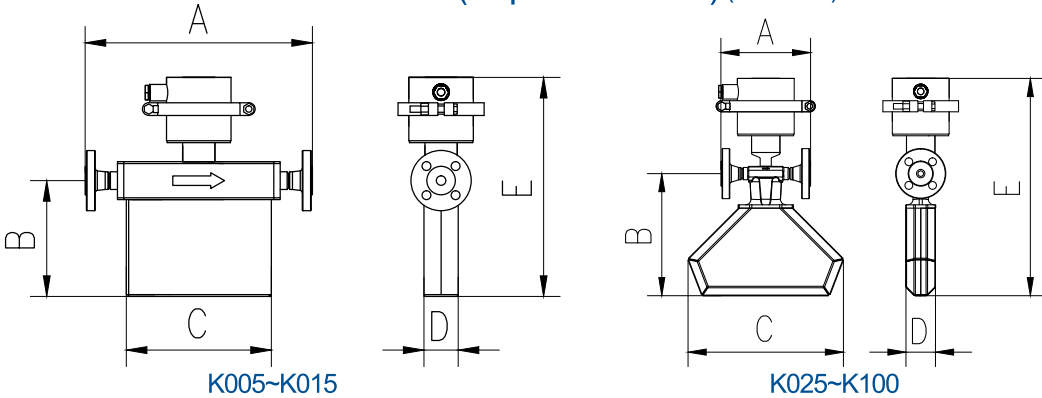
BPM-E Transmitter (Unit: mm)



Model	A	B	C	D	E	F
BPM-E	166	288	174	71	298	4 x Φ10

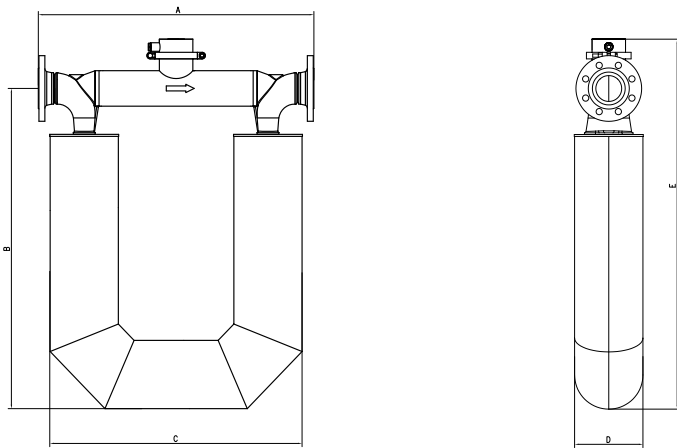
Outline Dimensions

K-Series Coriolis Flowmeters (Separate Mount) (Unit: mm)



! Flange standard adopted
GB/T 9124.1-2019
GB/T 9124.2-2019

Model	Process Connection	A (Customizable)	B	C	D	E (-B/-E)
K005	DN10/DN15/DN20/DN25	343~353	183	216	54	306/351
K010	DN10/DN15/DN20/DN25	343~353	183	216	54	306/351
K015	DN10/DN15/DN20/DN25	343~353	183	216	54	306/351
K025	DN15/DN20/DN25	159~163	219	279	54	350/395
K050	DN15/DN20/DN25	187~191	306	410	69	442/482
K075	DN25/DN32	200~204	348	465	82	489/529
K100	DN25/DN32/DN40	206~210	420	568	106	561/606

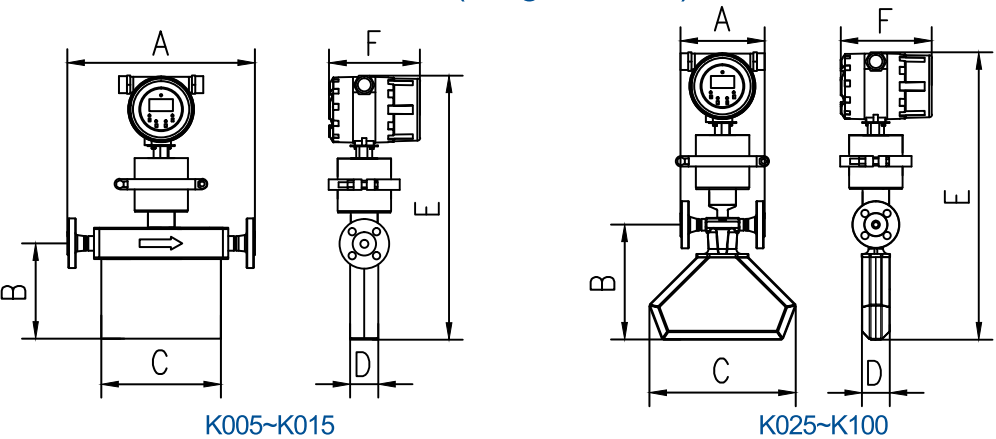


! Flange standard adopted
GB/T 9124.1-2019
GB/T 9124.2-2019

Model	Process Connection	A (Customizable)	B	C	D	E (-B/-E)
K150	DN40/DN50/DN65	455~457	520	385	110	636/685
K200	DN40/DN50/DN65/DN80	562~576	696	496	140	815/864
K280	DN80/DN100/DN125	685~698	795	610	170	927/980
K300	DN80/DN100/DN125/DN150	835~865	976	768	208	1118/1131
K350	DN100/DN125/DN150	846~878	961	751	234	1116/1129
K400	DN150/DN200/DN250	984~1030	1140	838	280	1339/1362
K600	DN200/DN250	1024~1054	1239	818	325	1439/1465
K800	DN200/DN250/DN300	1023~1109	1374	884	397	1587/1613
K1200	DN250/DN300/DN350	1126~1314	1675	816	452	1943/1969

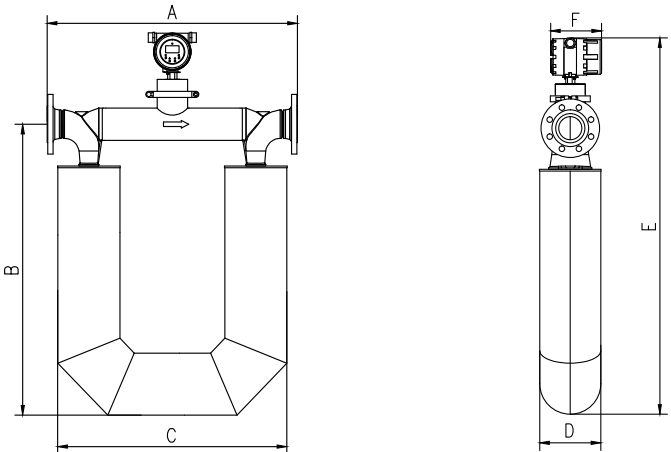
Outline Dimensions

K-Series Coriolis Flowmeters (Integral Mount) (Unit: mm)



Flange standard
adopted
GB/T 9124.1-2019
GB/T 9124.2-2019

Model	Process Connection	A (Customizable)	B	C	D	E (-B/-E)	F
K005	DN10/DN15	343~353	183	216	54	451/504	174
K010	DN10/DN15/DN20/DN25	343~353	183	216	54	451/504	174
K015	DN10/DN15/DN20/DN25	343~353	183	216	54	451/504	174
K025	DN15/DN20/DN25	159~163	219	278	53	495/548	174
K050	DN15/DN20/DN25	187~191	306	410	69	587/614	174
K075	DN20/DN25/DN32	200~204	348	465	82	634/634	174
K100	DN25/DN32/DN40	206~210	420	568	106	706/759	174

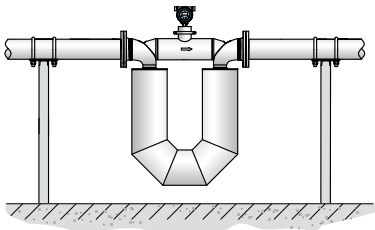


Flange standard
adopted
GB/T 9124.1-2019
GB/T 9124.2-2019

Model	Process Connection	A (Customizable)	B	C	D	E (-B/-E)	F
K150	DN40/DN50	451~457	520	385	110	781/841	174
K200	DN40/DN50/DN65	562~576	696	496	140	960/1017	174
K280	DN80/DN100	685~698	795	610	170	1072/1140	174
K300	DN80/DN100/(DN125)	835~865	976	768	208	1263/1296	174
K350	DN100/(DN125)/DN150	846~878	961	751	234	1261/1282	174
K400	DN150/(DN175)/DN200	984~1030	1140	838	280	1484/1503	174
K600	DN200/(DN225)/DN250	1024~1054	1239	818	325	1584/1618	174
K800	DN200/(DN225)/DN250/DN300	1023~1109	1374	884	397	1732/1766	174
K1200	DN250/DN300/DN350	1126~1314	1675	816	452	2088/2122	174

Installation Instructions

K-Series sensor installation

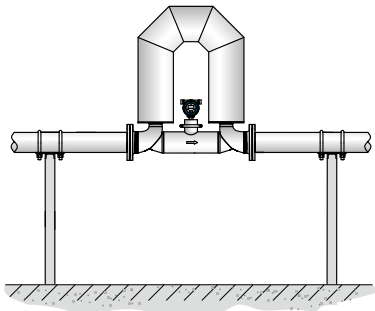


Horizontal installation —bottom mounted

Applicable medium: liquid



Generally, the sensor is installed with the shell facing down to prevent air from accumulating in the sensor measurement tube, thereby achieving the purpose of accurately measuring the mass flow.

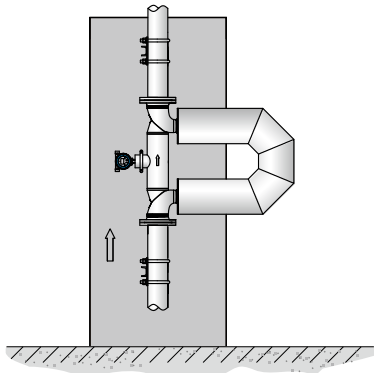


Horizontal installation —top mounted

Applicable medium: gas



Generally, the sensor is installed with the shell facing upward to avoid the accumulation of condensate in the measuring tube of the sensor.



Flag installation —side mounted

Applicable medium:



liquid or solid-liquid mixing
Generally, the sensor is installed on the vertical pipeline to avoid the accumulation of particles in the measuring tube of the sensor.

Notes on installation location



The sensor should be positioned away from interference sources that may cause mechanical vibration in the piping system, such as pumps installed on process lines.



The measuring tube of the sensor must remain completely filled with liquid and maintain sufficient back pressure at all times. Therefore, the sensor should be installed at the lower section of the pipeline.



The sensor installation should take into account pipeline expansion and deformation caused by temperature changes. In particular, the sensor must not be installed near expansion joints.



The sensor mounting flange must be coaxially aligned with the pipeline flange to ensure stress-free installation.



The sensor should be installed away from sources of industrial electromagnetic interference, such as high-power motors and transformers.



The sensor should be equipped with shut-off valves on both the upstream and downstream sides.

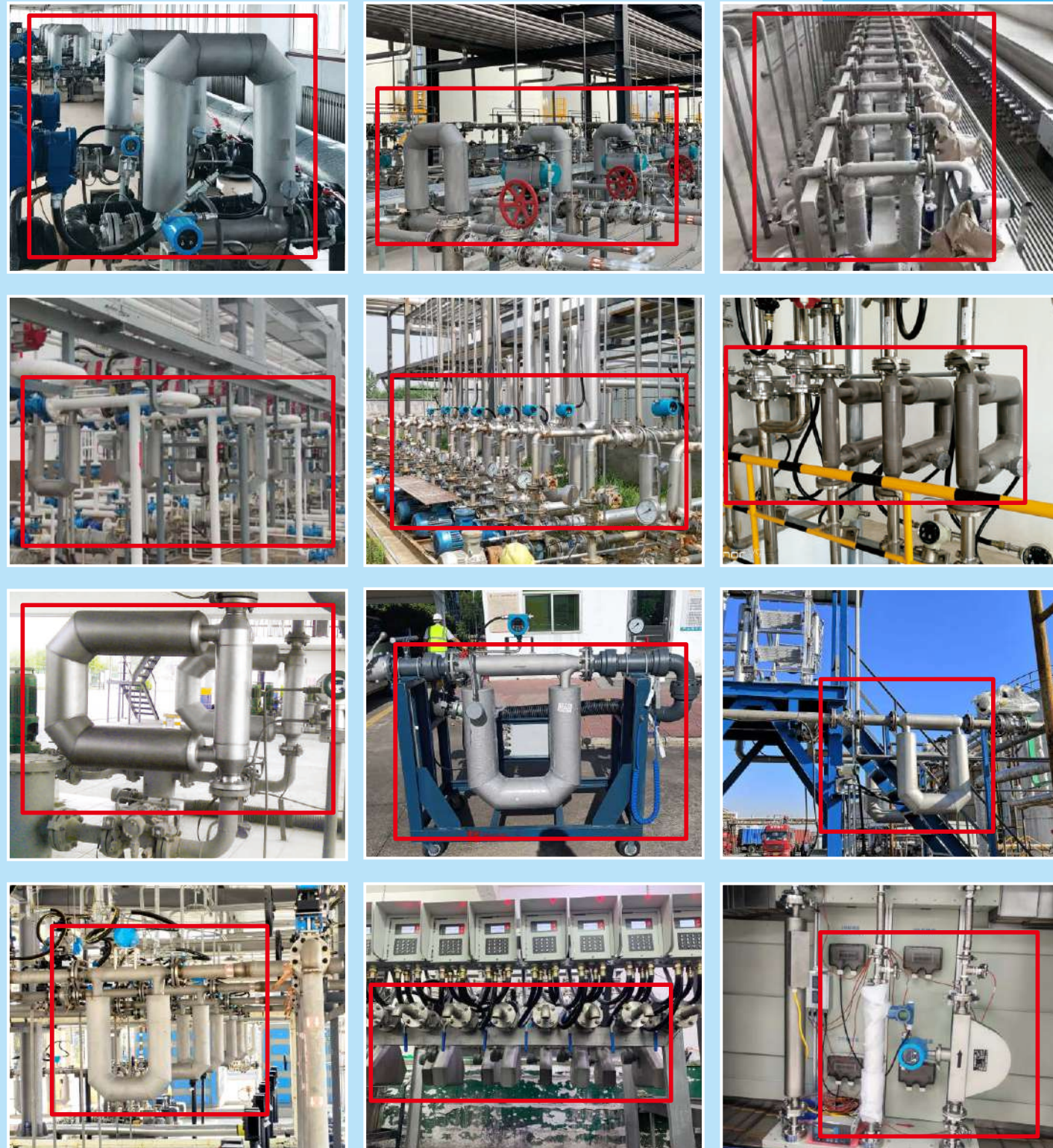


When installing the sensor, you must choose a suitable installation location. In order to eliminate the impact of vibration on the measurement, in addition to staying away from the vibration source, a support rod is also required to fix the pipeline and valve firmly during installation. The lower end of the support rod must be fixed on a stable foundation, and the upper end is matched with the pipe clamp to fix the process pipeline. (Do not use the sensor housing to support sensors, pipelines, valves, pumps, etc.)



After the sensor is installed, its housing should be in a free floating state.

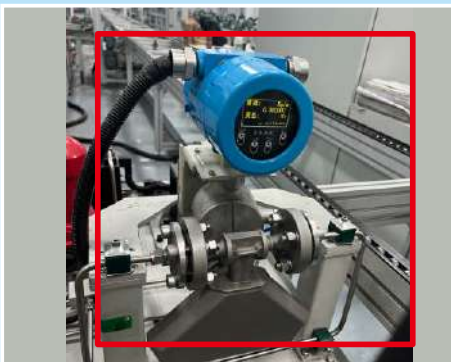
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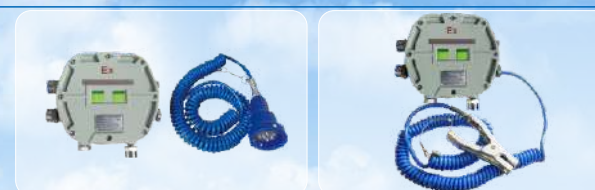




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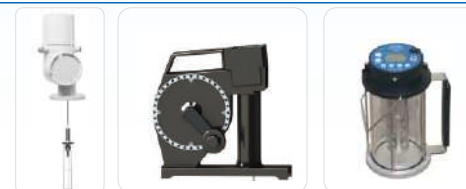
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