开创测控
KAI CHUANG FIOWMETER

Kaichuang

Throttling Device

Differential pressure flowmeter

Product Catalog

Customer-centered and striver-oriented

Kaifeng Initiative Measurement & Control Technology Co.,Ltd.

Throttling Device

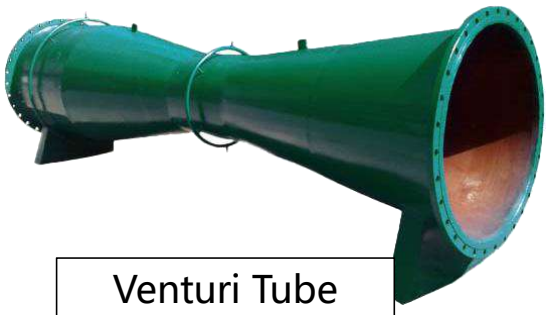
Partial products





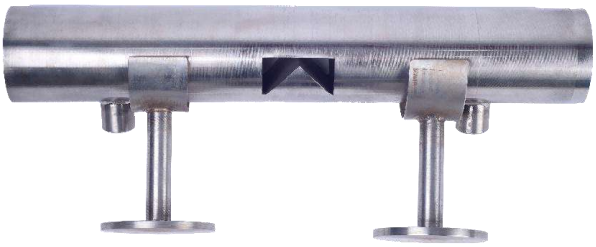

Orifice Plate Flowmeter

Nozzle Flowmeter
(internal core)



Venturi Tube
Flowmeters

V-cone Flowmeter



Wedge Flowmeters

Wing Wind
Measuring Device

1.Product Overview

The throttling devices produced by our company are divided into two categories: standard throttling devices and non-standard throttling devices, the former has standard orifice plate, ISA1932 standard nozzle, long diameter nozzle, classical venturi and venturi nozzle; the latter has large-diameter orifice plate (DN>1000mm), round short of the orifice plate, eccentric orifice plate, 1/4 round orifice plate, circular orifice plate, wear-resistant orifice plate, conical inlet orifice plate, dual orifice plate, inner hidden Orifice plate, end orifice plate, restriction orifice plate, large diameter venturi (DN>1200mm), rectangular venturi, insertion venturi, wing-type wind measurement device, even speed (flute) tube, V cone flowmeter, wedge flowmeter, elbow flowmeter, balanced flowmeter (porous plate), and so on.

1.1Product Features

The throttling device, also known as a differential pressure flowmeter, converts a flow value that cannot be measured directly into a differential pressure (force) signal that can be measured directly. The throttling device is the sensitive element in the differential pressure flowmeter, which is equivalent to the sensor in many flowmeters. Throttle device is used in a large number of chemical industry, metallurgy, electric power, light industry, petroleum, petrochemical and other industrial automation field of fluid flow measurement, control, regulation.

Compared with other flow meters, the throttle device mainly has the following characteristics

(1) Wide range of application media, can be used for almost all liquids, gases and steam.

(2)Operating temperature range:-200-+650℃;Maximum working pressure:40MPa

(3)The highest degree of standardization, can not be used to determine the accuracy of the calibration that can determine the flow.

(4)Special varieties and specifications, can adapt to a variety of different process conditions of measurement.

(5) Measurement of high reliability, and maintenance is very small.

(6) Inexpensive, the larger the caliber the more obvious.

Because of its unique performance, so that the number of its use than any other type of flowmeter has an advantage. In recent years, with the rapid development of the electronic unit of the differential pressure transmitter, the accuracy and stability of the throttle device have been improved, and the field operation is more convenient. In particular, the use of integrated throttling device using multi-parameter transmitter can realize the automatic compensation of temperature and pressure, fault diagnosis, communication function with the host computer, etc., which greatly expands the use of throttling device.

1.2Conditions of use

(1) The fluid must fill the pipe and the flow must be continuous.

(2) The fluid must be a Newtonian fluid (all types of liquids, all types of gases, saturated vapors, superheated vapors) and not undergo a phase change in the vicinity of the throttling device.

(3) The fluid should be single-phase (gas or liquid phase) or can be viewed as single-phase (no more than 2% of uniformly dispersed solid particles in the gas fluid and no more than 5% of uniformly dispersed air bubbles in the liquid fluid). Before the fluid flows through the throttling device, its flow bundle shall be parallel to the pipe without rotation or eccentricity.

There are so many types of throttling devices that you don't know how to choose?

Please tell us the environment of the flowmeter use, the measurement of the substance and the size of the pipe, the account manager for you to customize the most professional products!

2.Standard orifice plate

Standard orifice plate is the simplest structure and the most adaptable product in

the throttling device, and its design, manufacture and use are in line with the international standard ISO5167 or national standard GBIT2624.

It can measure the flow of various gases, liquids and steam, with a wide range of adaptability. The structure is simple, firm, easy to install, reliable and stable.

Moderate accuracy, can be equipped with intelligent differential pressure transmitter, temperature, pressure compensation or field bus communication.

Technical Parameters:

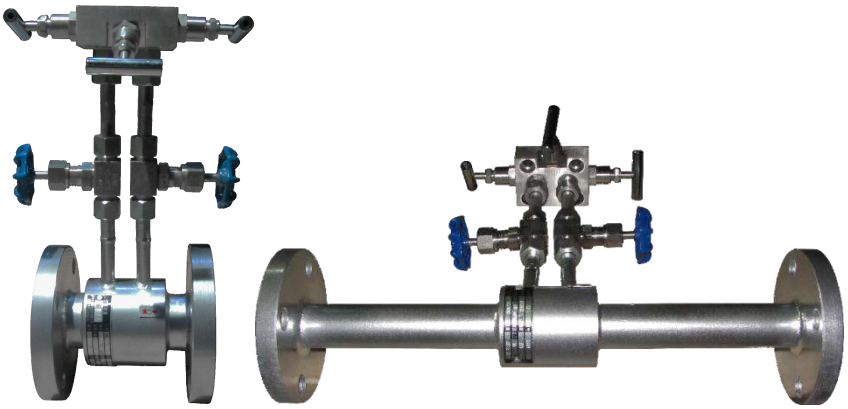
(1) Pressure mode: Angle connection (ring chamber or separate drilling), flange pressure, diameter pressure.

(2) Nominal pressure: ≤ 42MPa (> 20MPa with a high-pressure lens plate or fully welded).

(3) Nominal diameter: standard orifice plate 50 ~ 1000mm, the whole orifice plate <50mm, flat orifice plate > 1000mm.

(4)Precision:±0.5%~±1.5%.

2.1Built-in Orifice Plate / Integral Orifice Plate



This type of orifice plate is the orifice plate and measuring tube as a whole, generally used for small pipe diameter (DN ≤ 50mm), so it is also known as small

pipe diameter orifice plate.

When DN = 50mm, belongs to the standard orifice plate, can be designed and manufactured according to international standards. When DN <50mm, belongs to the non-standard orifice plate, its outflow coefficient can be calculated according to Stolz formula, when the precision requirements in more than 2.5%, it is recommended to test the flow rate for calibration.

Product Features:

(1)Compact structure, solid and durable, reliable work.

(2)It can measure small flow rate, and it is easy to install on site.

(3)A straight section of pipe is required before and after the orifice plate, 5D before (the length of the front straight section reaches 5 times the diameter of the pipe) and 2D after (the length of the rear straight end needs to reach 2 times the diameter of the pipe section).

Technical Parameters:

(1)Nominal Diameter:15~50mm.

(2)Nominal pressure:≤ 6.3MPa.

(3)Accuracy:± 2.5%.

3.Annular orifice plate




In addition to the advantages of the standard orifice plate, the annular orifice plate also has the following characteristics.

(1) no stagnation zone, ring-shaped orifice plate can measure a variety of fluids, including fluids containing various impurities (such as dust, suspended solids, sediments, etc.), such as gas, hot air, flue gas, natural gas, cooling circulating water. When measuring saturated steam and superheated steam, it can avoid the accumulation of condensate formed by stopping the steam, and when the steam is sent again, it can enter into the accurate measurement very quickly.

(2) The instrument body has a straight measuring pipe, field installation, installation

errors (such as eccentricity, sealing gaskets into the pipe) on the instrument measurement has almost no effect.

(3) The use of "equalizing ring" structure, the length of the straight pipe section requires a short. For example: in a 90 ° elbow downstream, 2D length before the meter can be: in a 30 ° elbow downstream, 0.5D length before the meter can be.

(4) The use of "welding" connection, applicable to high temperature and high pressure fluid (such as superheated steam), low cost, reliable, stable performance.

(5)Adopting "jacket insulation" structure, suitable for easy to crystallize, easy to vaporize and other fluids that need to be heated or cooled (e.g. liquid ammonia, some chemical products, etc.).

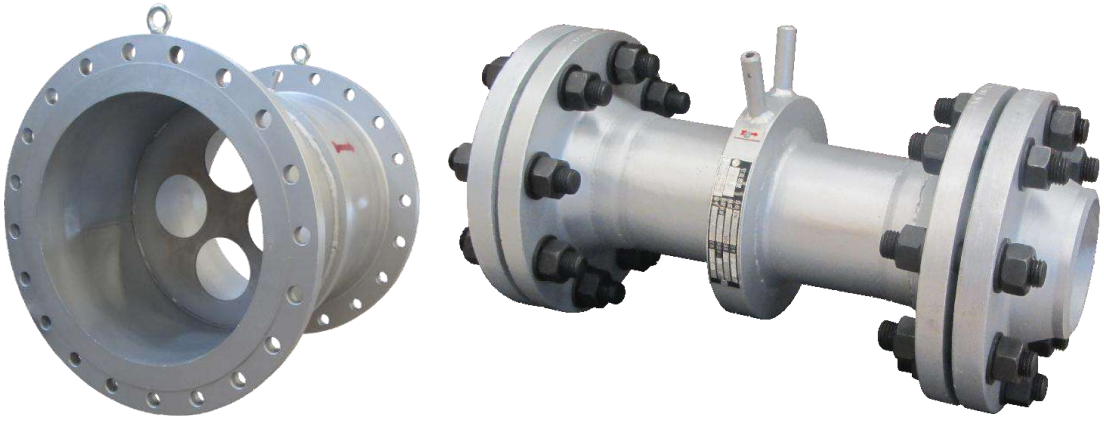
Technical Parameters:

(1)Nominal pressure:≤40MPa.

(2)Nominal diameter:50~2400mm

(3)Accuracy:±1.5%~±2.5%(Maximum accuracy ±1.0%)

4.Balance flowmeter



Balance flow meter (also called multi-orifice plate) is an improvement of the standard orifice plate, is a new structure of the standard orifice plate and flow

adjuster in one throttle device.

Product Features:

(1) The upstream and downstream straight pipe sections are required to be short, up to 0.5D.

(2) Low permanent pressure loss.

(3) Good repeatability and long-term stability.

(4) Measurement of bidirectional flow.

Technical parameters:

(1)Connection form:flange connection, flange clamping, clamping type, pipe welding, threaded connection.

(2)Nominal diameter:DN25~1000.

(3)Nominal pressure:PN≤42MPa.

(4)Accuracy:±1.5%.

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5.Standard nozzle/ISA1932 nozzle

ISA1932 nozzle, also known as standard nozzle. Designed and manufactured in accordance with international standards ISO5167 or GB/T2624, it is more resistant to abrasion due to the rounded shape of the inlet portion, and is commonly used for high temperature and high pressure fluids, such as superheated steam, boiler main feed water, and so on.

Product Features:

(1)Sturdy structure, reliable and durable.

(2) Pressure loss is smaller than orifice plate, saving energy.

(3) Moderate accuracy.

Technical parameters:

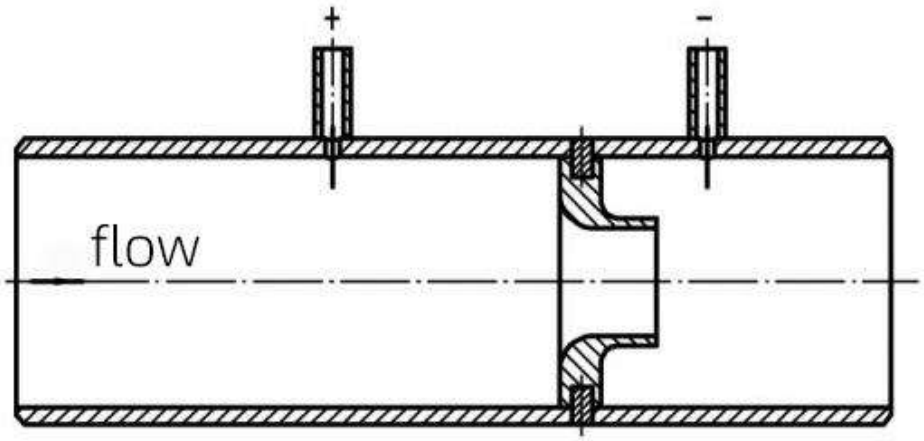
(1)Nominal pressure:≤40MPa.

(2)Nominal diameter:DN50~500mm

(3)Accuracy: ±0.8%~±1.2%

6.Long diameter nozzle

The long diameter nozzle meets the international standard ISO5167 or national standard GB/T2624. It is a kind of standard throttling device, whose inner contour curve is part of an ellipse and is more resistant to abrasion. Commonly used in high temperature and high pressure fluids (such as superheated steam, boiler main steam, chemical solutions, etc.).



Product Features:

(1)Firm structure, reliable and durable .

(2) Resistant to high temperature and high pressure, it is the strongest one among all kinds of throttling devices.

(3) Pressure loss is smaller than orifice plate, saving energy.

(4)Measuring pipe material is the same as user's on-site pipe, which can ensure the welding performance.

Technical Parameters:

(1)Pressure-taking mode: 1D before, 0.5D after.

(2) Nominal diameter: DN50~600mm.

(3)Nominal pressure:≤ 50 MPa.

(4)Accuracy:±2%.

7.Classical venturi

Classic Venturi Tube in accordance with IS05167 or GB/T2624. Used to measure the flow of single-phase stable fluids in closed pipelines, such as air, natural gas, gas, water and other fluids.

Product Features:

(1)Simple structure, durable and stable performance.

(2)Small pressure loss, saving energy required for fluid transportation .

(3) The body installation size is long, not easy to transport and install.

(4)Larger than DN600, inserted double venturi can be used.

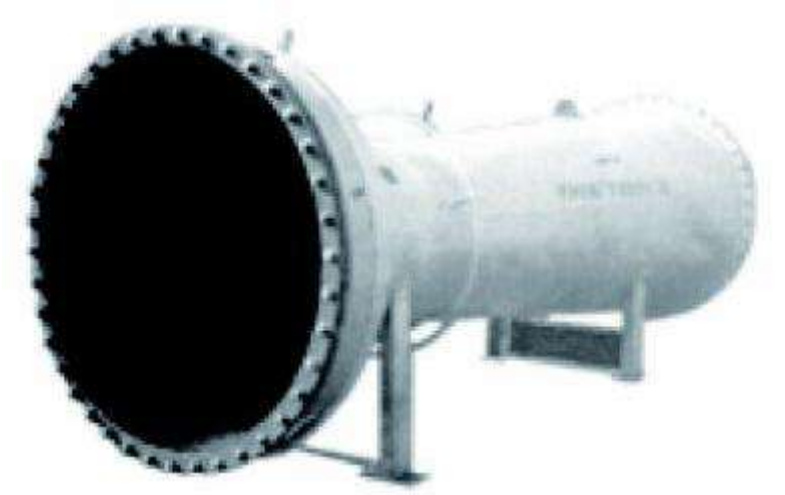
Technical parameters:

(1)Nominal diameter:DN50~2400mm.

(2)Nominal pressure: flange connection: PN0.25~4.0(6.3)MPa, welded: with the field pipeline.

(3)Accuracy: ±0.7%~±1.5%

8.Low pressure loss flow tubes



The Low Pressure Loss Flow Tube is a modification of the classic venturi, retaining the advantages of low pressure loss, but with a more compact structure and reduced dimensions for easy transportation and installation. Commonly used in metallurgical industry for gas flow (such as blast furnace gas, converter gas, etc.) measurement.

Product features:

(1)Under the same flow rate, the measuring differential pressure is larger, which is convenient for optional differential pressure transmitter, and under the same differential pressure, the pressure loss is smaller, which is better for energy saving.

(2)The axial size is about 3~4 times of the nominal diameter of the pipeline, which is lower cost than the classic venturi.

Technical parameters:

(1)Nominal diameter:DN150~3000mm.

(2)Nominal pressure:≤2.5MPa.

(3)Accuracy:±2.5%.

9.Venturi Nozzle

The inlet part of the venturi nozzle is similar to the inlet of the nozzle, while the outlet part is similar to the outlet of the venturi tube, which conforms to the international standard ISO5167 or GB/T2624, and is also a standard throttling device.

Product features.

(1)Pressure loss is smaller than orifice plate and nozzle type

(2) Moderate accuracy.

Technical parameters.

(1)Nominal diameter:DN65~500mm.

(2) Nominal pressure: ≤ 6.3MPa.

(3) Accuracy: ± 1.5%.

10.Sonic Nozzle (Critical Flow Venturi Nozzle)

The inner contour shape of the sonic nozzle is similar to that of an ordinary venturi nozzle, but the working condition is fundamentally different from that of a venturi nozzle, and the flow rate at its throat can reach the local speed of sound to form a critical flow, which is usually called a sonic nozzle or a sonic venturi.

Product features.

(1)Clearer theoretical basis, stable instrumentation coefficient, high repeatability.

(2) Robust, semi-permanent, and can be used as a flow transfer standard.

(3) Measuring range is almost unlimited.

(4) Strong resistance to upstream interference, also not affected by the downstream

side of the fluid parameters.

Technical Parameters.

(1)Nominal diameter:DN6~500mm.

(2)Nominal pressure:≤40 MPa.

(3)Accuracy:±0.1%~±0.2%.

(4)Flow rate range: unrestricted.

11.ASME Nozzles

ASME nozzle is a high-precision flow measurement device, is a throat to take the pressure of low β-value long-necked nozzle device, commonly used in power generation of the main flow measurement, such as power plant condensate flow of accurate measurement, power plant feedwater flow or steam volume measurement, as well as fan performance test, compressor performance test and other high-precision flow test occasions.

Product Features:

(1)Simple structure, easy to install, widely used, mainly used in high-precision flow measurement occasions. (2) The pressure loss of the nozzle is small, and the length

of the straight pipe section is short.

(3) Stable performance, high reliability, high temperature and high pressure, impact resistance.

(4) High precision, good repeatability, stable outflow coefficient, arc structure design can measure a variety of liquids, gases, steam and other media.

(5) Available in a variety of materials, used in a variety of performance test occasions.

Technical Parameters:

(1)Nominal diameter:10mm≤DN≤630mm.

(2)Nominal pressure:≤40MPa.

(3)Range of aperture ratio:0.25≤β≤0.5.

(4)Reynolds number range:1x10≤ReD≤1x10000000.

(5)Reference standards:GB/T2624-2006 ASME PTC 6-2004 ASME PTC 19.5-2004

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12.V-cone Flowmeter

The key component of V cone flowmeter is a V-shaped cone, which has a unique "rectification" function, which essentially ensures the accuracy of measurement. It can be widely used in metallurgy, petroleum, chemical industry, gas and other fields of fluid, such as steam, coke oven gas, natural gas, air and other fluid measurement.

Product Features.

(1)Low requirement of straight pipe section, 1~2D before and after can be.

(2) Good stability, long-term stability of the throttle area, signal stability.

(3) No retention area.

(4) Wide range, 10:1 or 15:1.

(5) Small pressure drop, close to the venturi.

Technical parameters.

(1)Nominal diameter:DN15~2000mm.

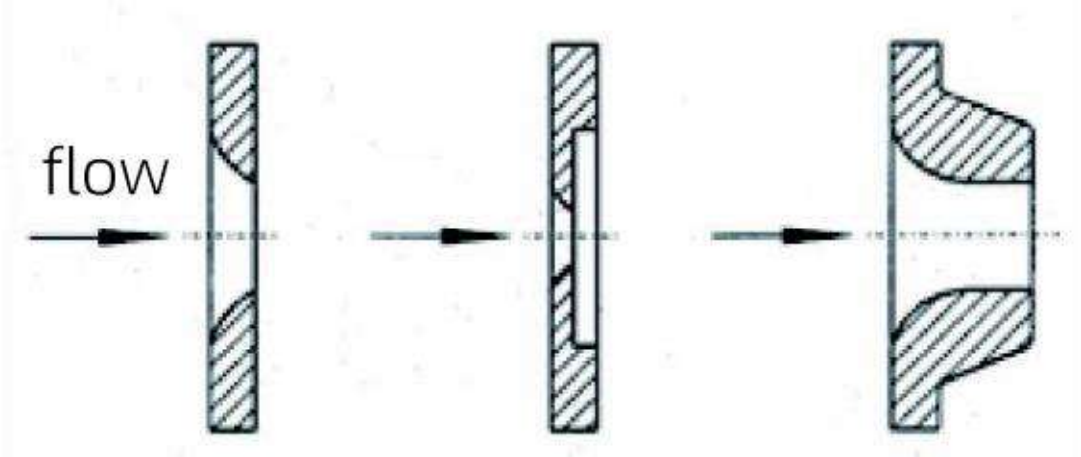
(2)Nominal pressure:≤10MPa.

(3)Accuracy: liquid +0.5%, gas +1.5%.

Standard β value:0.45-0.85

13.Quarter-circle plate

Quarter (or 1/4) orifice plates, also known as quarter-circle nozzles, are not standard throttling devices but conform to British Standard BS1042.Their inlet edges are rounded quarter-circle arcs which allow measurement of low Reynolds number fluids.



Product Features.

(1)Simple and sturdy structure, stable performance .

(2)It can measure the flow of various gases and liquid steam, and the lower limit of the measured flow is much lower than the standard orifice plate, but the upper limit is not as high as the standard orifice plate.

Technical parameters.

(1)Pressure-taking method: ring chamber pressure-taking, flange pressure-taking.

(2) Nominal diameter: DN25~500mm.

(3) Nominal pressure: ≤ 40MPa.

(4) Throttle hole diameter: d ≥ 15mm.

(5)Reynolds number range.

Redmin≤ReD≤105β.

Redmin is 250~3250 (related to β, β=d/D).

(6)Accuracy:±2%~±2.5%.

14.Conical inlet orifice plate

The conical inlet orifice plate, although not a standard throttling device, conforms to British Standard BS1042 and has a conical inlet edge to measure low Reynolds number fluids.

Product Features:

(1)Simple and sturdy structure, stable performance.

(2) Can measure various gases, vapors and liquids, the lower limit of flow is much lower than the standard orifice plate, but the upper limit is not as high as the standard orifice plate, compared with the quarter-round orifice plate, the lower limit is lower and the upper limit is slightly higher.

(3)The manufacturing cost is lower than quarter hole plate.

Technical Parameters:

(1)Pressurization mode: ring chamber pressurization.

(2) Nominal diameter: DN25~500mm.

(3) Nominal pressure: ≤ 40MPa.

(4) Throttle hole diameter: d>6mm.

(5) Reynolds number range: ReD 250 β ~ 2x105 β (β = d / D).

(6)Accuracy:±2%.

15.Circular hole plate

Circular missing orifice plates, also known as chord moon orifice plates, have openings shaped like a half-moon, which is part of a circle, and can be used to measure fluids containing various impurities.

Product Features:

(1) Simple and solid structure, not easily damaged .

(2) Impurities in the fluid are not easy to accumulate before and after the orifice plate, so as not to affect the measurement accuracy.

(3) It is not suitable to be installed in vertical pipeline.

Technical parameters:

(1)Pressure mode: flange pressure, pressure port in the opposite side of the circular notch.

(2) Nominal diameter: DN100~350mm.

(3) Nominal pressure: ≤ 40MPa.

(4)Accuracy:±3%.

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16.Restrictor plate

Restrictor plate is used for pressure reduction and flow restriction in the process of fluid transportation, utilizing the characteristics of large pressure loss of sharp orifice plate to achieve the purpose of pressure reduction and flow restriction.

Product Features:

(1)Simple and durable structure, reliable work .

(2)No need to measure the pressure difference.

(3)Under the condition that the inner diameter of the pipe is certain, the smaller the opening of the throat is, the higher the flow rate is, the more obvious the effect of pressure reduction and flow limitation is.

Technical parameters:

(1)Nominal diameter:DN10~500mm

(2) Nominal pressure: ≤ 40MPa

(3)Pressure reduction capacity: each piece of orifice plate can be reduced by 2MPa or so, can be combined into a multi-piece orifice plate group, the overall pressure reduction capacity is not limited.

17.Wing Wind Measuring Device

The wing air measurement device is used to measure the air flow measurement of the boiler in thermal power plants. It is suitable for large air flow, large cross-sectional area of air duct, low flow velocity and short length of straight pipe section.

Product Features:

(1)With unique wing line shape, it can produce large differential pressure signal, stable and reliable measurement.

(2)The length of the device is short, which is easy to install and has low requirements for straight pipe sections before and after.

(3)Round and rectangular pipes can be measured.

(4) Smaller pressure loss.

Technical parameters:

(1) Rectangular pipe (length x width): 500mmx500mm~6000mmx6000mm

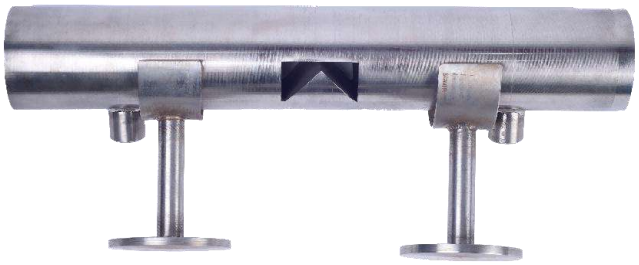
(2)Nominal diameter of round pipe:DN500~DN6000

(3)Nominal pressure:PN≤1.0MPa

(4)Working temperature:t≤200℃.

(5)Accuracy:+1.0%, +1.5%, +2.0%

18.Wedge Flow Meters

Wedge flowmeter is a solution to viscous flow and bidirectional flow of flow measurement instrument, mostly used for high viscosity oils and solids containing suspended particles of fluid flow measurement.

Product Features:

(1) Can be used for viscous liquid flow measurement, viscosity can be as high as 500mPa-s, such as fuel oil, residual oil and heavy oil.

(2) Suitable for liquid-solid mixture containing suspended particles, such as slurry fluid, sewage and other flow measurement.

(3) Wide range of Reynolds number.

(4)The inner surface of the measuring tube and the surface of the wedge element are coated with tungsten carbide, which can increase the wear resistance of the flowmeter and prolong the life of the flowmeter.

Technical Parameters:

(1)Nominal diameter:25mm~1600mm.

(2)Nominal pressure:PN≤16MPa.

(3)Applicable temperature:t≤300℃.

(4)Accuracy:≤±1.0%.

19.Bend Tube Flowmeter

Bend pipe flowmeter has a simple structure, reliable performance, small pressure buildup, especially suitable for large diameter, large flow, no pressure loss, low viscosity fluid flow measurement.

Product Features:

(1)No insertion of throttling parts, no additional pressure loss.

(2)Simple and reliable, easy to install.

(3) High temperature resistance, wear resistance, vibration resistance, maintenance-free.

Technical Parameters:

Pressure taking direction: 45°direction pressure taking.

Nominal diameter: DN25~600.

Nominal pressure: ≤4.0MPa.

Working temperature: ≤500℃.

Flow rate: gas 5m/s~120m/s, liquid 0.1m/s~12m/s.

R/D:1.5(R is the radius of curvature at the pipe elbow, D is the pipe radius)

Accuracy:±1.0%,±2.5%.

20.Ba class flow sensor

An insertion sensor based on the principle of Pitot tube fluid dynamic pressure velocimetry with stable outflow coefficient. According to the shape of the cross-section of the measuring rod, the different deformation of the pressure-taking holes as deltabar, wilibar and so on.

Product Features:

(1) In the case of non-constant flow, it can be drawn out for maintenance and replacement, easy to install .

(2) Small pressure loss, energy saving.

Technical Parameters:

(1)Nominal diameter:DN25~4000mm.

(2) Nominal pressure: ≤ 12 MPa.

(3)Medium temperature:≤500℃.

(4)Accuracy:±3%,+5%.

21.End throttles

End throttling devices (end orifice plates or nozzles) are used for flow measurement at the inlet or outlet of pipelines. The structure is the same as the standard throttling device. It is often used to measure air flow at the inlet of a blower or compressor, or at the end of a pipeline when liquid is discharged into the atmosphere.

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22.Tell us about your product needs

1	Purchasing company		★	
2	QTY		★	
3	Pipe Size		external diameter(ϕ) : mm Pipeline wall thickness: mm	
4	Pipe Material		★	
5	Fluid		★	
6	Flow Full Scale		★	
7	Flow Max	Gas Nm3/h	★	
8	Flow Nor	Vapour Kg/h	★	
9	Flow Min	Liquid m^3/h	★	
10	Operating Pressure		★	Mpa
11	Operating Temperature		★	℃
12	Measure Material Density		※	kg/m^3
13	Visccosity at Operationg Conditions		※	mPa · s
14	Compress Factor		※	
15	Type			
16	Calc.STD.			
17	Primary Element Material			
18	Pore size ratio			
19	Flow Full Scale			kg/h
20	Differential Press.Full Scale			Pa
21	Press.Loss Max			**Pa**
22	Upstream straight section/downstream straight section		M	M
23	Bore Diameter(20℃)			

23.Part of the product display

Throttling Device / Differential pressure flowmeter

Clamp type/Pipe type Vortex Flowmeter

Insertion Type Vortex Flowmeter

Orifice plate Flowmeter

V-cone Flowmeter

Air Duct Leakage Detection Instruments (Military Products)

High-standard agricultural water-saving irrigation total solution

24.Product Applications

Metallurgical Minerals

Oil Exploration

Environmental Water Treatment

Power Plants

Chemical Plant

Paper-making

Water Supply And Drainage

Pharmaceutical Manufacturing

Food Canning

Agricultural Irrigation

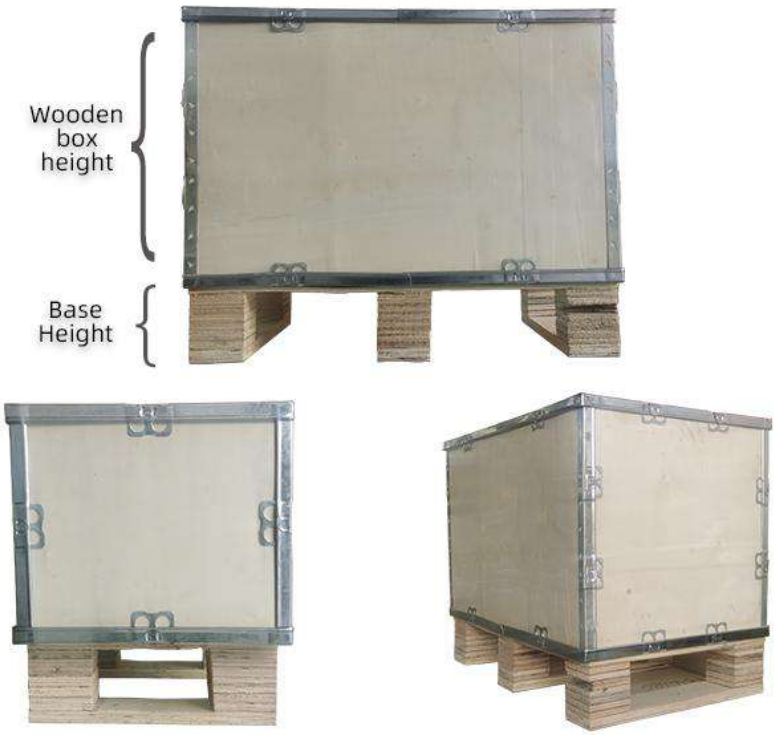
Landscape Gardening

City Heating

25.Product Certificates

26.Product Packaging

Packaging Picture



27.Company Showcase

Founded in 2010, **KAIFENG INITIATIVE MEASUREMENT & CONTROL TECHNOLOGY CO.,LTD.** is a modernized and comprehensive science and technology enterprise focusing on the production, sales, installation, construction and technical services of **flow meters**, **intelligent agriculture**, **information system**

integration services, computer network engineering and development of water treatment equipments and high-standard farmland irrigation equipments. Since its inception, the company has actively invested in product research and development and innovation, has made a number of technical achievements, was awarded the national high-tech enterprises, Henan Province, "specializing in new" small and medium-sized enterprise honorary title, and successfully applied for the establishment of Kaifeng City, intelligent agriculture irrigation flow meter engineering technology research center.

The company has been engaged in foreign trade industry since 2017, and its products are exported to Russia, India, Vietnam, five Central Asian countries, etc. It has rich export experience, complete export qualification and perfect international after-sales service system. The company's products in the comprehensive agricultural development projects, small farmland water conservancy projects, water resources monitoring, food, pharmaceuticals, papermaking, environmental protection and urban heating and water supply, gas supply, water treatment and other fields, a number of core technologies are fully applied to obtain a wide range of domestic and foreign customers praise.

The core technical engineer is the technical director of the former Kaifeng Instrument Factory, with 35 years of technical experience in the industry(Kaifeng Instrument Factory is one of the original four state-owned instrument factories in China).

The company has technical strength in **industrial design and product development**.

High-standard **agricultural water-saving irrigation** overall solutions.

Air duct leakage detection solutions (**military products)**.

Customized solutions based on any usage scenario of the flow meter.

More than **14 years** of production experience.

Product precision: **±0.2**

Nominal diameter **DN2-DN3000** can be produced.

28.Exhibitions & Visitors

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Open Google Maps, fill in "china" and click search, then fill in "开封开创计装仪表有限公司" and click search, then you will know the location of our company.

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