

ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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JIANGSU XINGAO BELLOWS CO., LTD.



XINGAO

FLEXIBLE METAL HOSE
EXPANSION JOINT

MORE THAN 32 YEARS OF INDUSTRY EXPERIENCE

ABOUT US



Jiangsu XINGAO Bellows Co., Ltd. is a modern enterprise integrating the design, production and sales of metal hose, corrugated expansion joint (also known as corrugated compensator) with 32 years history. The company has a building area of more than 13000 square meters, complete production facilities, more than 150 domestic advanced production and testing equipment, and nearly 100 employees. Since its establishment in 1989, the company has been committed to the R & D and production of bellows products. With its advanced technology, excellent quality and enthusiastic after-sales service, it is well received by customers.

With quality management and quality management as the core, the company has passed the certification of ISO9001, ISO14001, ISO18001, TS2710223-2022 special equipment manufacturing license, CCS certification and obtained a number of patents.

The metal hose is produced in accordance with the GB / t14525-2010 standard, which has the characteristics of light weight, corrosion resistance, fatigue resistance, high pressure resistance, good flexibility and less land occupation. The corrugated expansion joint is designed according to EJMA and ASME standards, produced and inspected according to GB / t12777-2019 standard. The product has compact structure, strong pressure bearing, large compensation, and can withstand the displacement in all directions, and has the functions of noise reduction and vibration reduction. According to customer requirements, we can provide customized products.

The products are widely used in gas, petrochemical, electric power, smelting, aerospace, construction, heating pipeline, machinery manufacturing and other fields. It cooperates with many well-known enterprises at home and abroad, such as Sinopec, PetroChina, China Resources gas, new Austrian gas, etc., and exports to the United States, Canada, Japan, Russia, Kazakhstan and other countries.

We are confident to provide you with safe, environmental protection and effective products and services at any time.

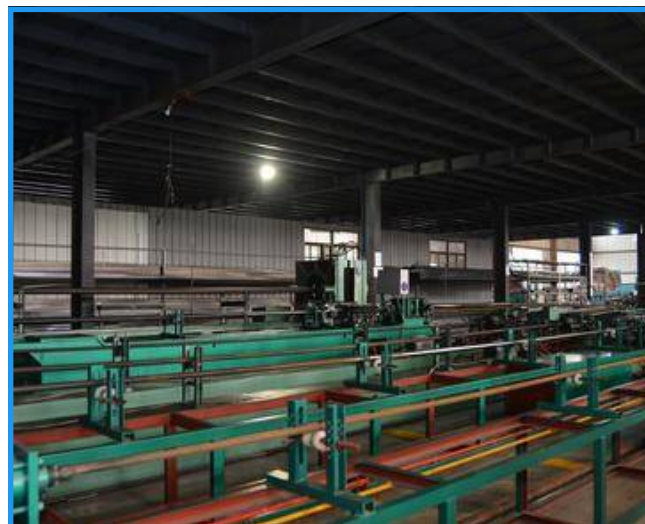
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WORKSHOP



PRODUCTION EQUIPMENT



INSPECTION EQUIPMENT



COMPANY HONOR



实用新型专利证书汇总

专利名称	专利号	授权公告号	发明人	专利权人
一种双层导电波纹管	ZL 2018 2 0905080.3	CN 208417924 U	江苏新高波纹管有限公司	孟 健; 黄 阳; 钱月红
一种异径补偿器	ZL 2018 2 1056248.X	CN 208535425 U	江苏新高波纹管有限公司	葛小娟; 沙江宁; 孟 健
一种锥形双金属补偿器	ZL 2018 2 1056377.9	CN 208519371 U	江苏新高波纹管有限公司	沙江宁; 孟 健; 葛小林
一种方型金属波纹管	ZL 2018 2 0965102.0	CN 208417947 U	江苏新高波纹管有限公司	葛厚亮; 黄 阳; 钱月红
一种直管压力平衡型补偿器	ZL 2018 2 1005869.5	CN 208417934 U	江苏新高波纹管有限公司	机 菲; 黄 阳; 葛厚亮
一种无接管波纹管	ZL 2018 2 1005907.7	CN 208417928 U	江苏新高波纹管有限公司	孟 健; 王 琦; 沙江宁
一种大拉杆横向型补偿器	ZL 2018 2 0965585.4	CN 208417933 U	江苏新高波纹管有限公司	黄 阳; 陈海英; 于洪明
一种万向铰链型补偿器	ZL 2018 2 0965157.1	CN 208417921 U	江苏新高波纹管有限公司	机 菲; 葛厚亮; 葛小林
一种直通式直管压力平衡型补偿器	ZL 2018 2 0965584.X	CN 208417932 U	江苏新高波纹管有限公司	沙江宁; 葛小娟; 葛厚亮
一种曲管压力平衡型补偿器	ZL 2018 2 1005909.6	CN 208417922 U	江苏新高波纹管有限公司	王 琦; 机 菲; 沙江宁
一种标尺补偿器	ZL 2018 2 1056376.4	CN 208417929 U	江苏新高波纹管有限公司	黄 阳; 沙江宁; 王 琦
一种外压单式轴向型补偿器	ZL 2018 2 0905079.0	CN 208417930 U	江苏新高波纹管有限公司	沙江宁; 机 菲; 钱月红
一种小拉杆轴横向型补偿器	ZL 2018 2 0963858.1	CN 208417926 U	江苏新高波纹管有限公司	钱月红; 沙江宁; 于洪明
一种双层管径波纹管	ZL 2018 2 0905085.6	CN 208417931 U	江苏新高波纹管有限公司	葛小林; 黄 阳; 于洪明



FLEXIBLE METAL HOSE

Flange connection flexible metal hose



Structure:

Hose material: SUS304/SUS316L/SUS321

Braid material: SUS304/SS316

Connection material: SUS304/SUS316L/carbon steel

Connection type:

A: Loose flange on one end and fixed flange on the other end

B: Loose flanges on both ends

C: Fixed flanges on both ends

Feature:

Flange connection flexible metal hose has excellent flexibility, fatigue resistance, high and low temperature resistance, corrosion resistance. Comparing to other hose (rubber hose, plastic hose), flexible metal hose owns longer service life. With the development of modern industry, flexible metal hose has a wider and wider application range.

Application:

The application area of flange connection flexible metal hose covers aviation, aerospace, petroleum, chemical engineering, metallurgy, electric power, paper-making, wood, spinning, construction, medicine, food, tobacco, transportation industries, as well as in wiring protection of railway, engine, air-condition, all kinds of machinery, automatic control equipment, electricity generation, power transmission and etc.

*Regarding to the special standards and materials, please contact with us.

FLEXIBLE METAL HOSE

Thread connection flexible metal hose

Structure:

Hose material: SUS304/SUS316L/SUS321

Braid material: SUS304/SS316

Connection material: SUS304/SUS316L/carbon steel

Connection type:

A. Male thread on one end and female thread nut (add external adapter) on the other end

B. Female thread nut on both ends (Plane seal, spherical seal or inner cone seal)

C. Male thread on both ends

Manufacturing standards: GB/T14525-2010



Feature:

1. Light weight.
2. Good scalability, non-blocking and stiffness.
3. Good softness, repeated bending and flexibility.
4. Good corrosion resistance and heat resistance.
5. Rodent resistance and good wear resistance which means it can prevent the internal wire from wearing.
6. Flexing and strong tensile property and lateral pressure resistance.
7. Soft and smooth, easy to thread, install and position.

Application:

Thread connection flexible metal hoses are widely used in many fields, such as spinning, chemical fiber, printing and dyeing, petroleum, chemical engineering, steel, fuel gas, air-conditioning, automobile, fire protection engineering, urban water supply, construction and metallurgical petrochemical.

*Regarding to the special standards and materials, please contact with us.

FLEXIBLE METAL HOSE



Quick coupling flexible metal hose

Structure:

Hose material: SUS304/SUS316L/SUS321

Braid material: SUS304/SS316

Connection material: SUS304 SUS316L/carbon steel

Connection type: All types of couplings

Manufacturing standards: GB/T14525-2010



Feature:

- 1.To absorb effectively vibration, noise, thermal expansion from pipeline system.
- 2.To resolve minor deviation because of piping connecting and eliminate the pipeline residual stress.
- 3.Applied to repeated motion in high temperature areas,good anti-fatigue performance.
- 4.Good flexibility,resistant to high temperature, resistant to corrosion.

Application:

Quick coupling flexible metal hoses are widely used in gas, low temperature, petroleum, petrochemical, electric power, heat, smelting, shipbuilding, construction, heating pipelines and other fields.

*Regarding to the special standards and materials, please contact with us.

FLEXIBLE METAL HOSE

Pipe welded flexible metal hose

Structure:

Hose material: SUS304/SUS316L/SUS321

Braid material: SUS304/SS316

Connection material: SUS304/SUS316L/carbon steel

Connection type: Pipe welded

Manufacturing standards: GB/T14525-2010



Feature:

1. Bend easily and easy to install.
2. It is able to bear corrosion resistance and heat resistance strongly, stainless steel materials can be used safely for years.
3. Outside is covered with stainless steel wire braided, have high bearing capacity.
4. Applied to repeated motion region in high-temperature areas, good anti-fatigue performance.
5. Size, diameter and length can be produced as customer's requirement.

Application:

Pipe welded flexible metal hoses are widely applied in the fields of petroleum, chemical industry, aerospace, metallurgy, electricity, gas, building, mechanical, construction, iron and steel, paper making, fabric, medicine, food and vessels etc.

*Regarding to the special standards and materials, please contact with us.

FLEXIBLE METAL HOSE



PTFE lined flexible metal hose

Structure:

Structure of PTFE lined flexible metal hose:

Inside: PTFE hose(smooth PTFE or convoluted)

Middle: stainless steel corrugate pipe

Outside: Stainless steel wire braid

Connection: All kinds of fittings



Feature:

1. Corrosion resistance. PTFE can completely resist industrial chemicals, and the corrosion rate is zero, and there is no pollution.
2. Cleanable and non-sticky. Low-porosity tubes will not trap bacteria, and can be easily cleaned with steam, detergent, caustic alkali or solvent.
3. Hygiene. Materials approved by FDA meet or exceed 3A requirements.
4. Compatible. It will not contaminate any media, nor will it bring any taste, color or smell to them.
5. Durable. It is designed for use in harsh environments with severe chemical, thermal and mechanical stress. Even after extreme thermal cycles, it will not age or become brittle.
6. Double containment. The metal shell is the auxiliary containment.

Application:

PTFE lined flexible metal hose is widely used in chemical, petroleum, textile, pharmaceutical, metallurgy, machinery, electronics, electricity, food and aviation.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Single axial expansion joint

Parameters:

Diameter: DN15-DN8000

Pressure: 0.1Mpa-4.0Mpa

Connection form: 1. Flange connection 2. Pipe welded

Axial displacement: 18MM~400MM

Standard: GB/T12777-2019

Working temperature: -196°C~+450°C

Flange standards: ANSI, DIN, JIS, GB, BS

Flange material: SS304, SS316L, SS321, carbon steel

Bellows: SS304, SS316L, SS321

Inner tube: SS304, SS316L, SS321, carbon steel

Ear plate/Tie rod/Nut: SS304, carbon steel



Feature:

1. Absorb axial, lateral and angular displacement
2. Deflection in any direction
3. The most economical and practical
4. Heat resistance, high pressure resistance, corrosion resistance, fatigue resistance and durability

Application:

Single axial expansion joints are widely used in aerospace, marine, petroleum, chemical, oil refining, power plants, machinery, construction, and information industry. And single axial expansion joints are also important to other industrial equipment manufacturing and pipeline engineering connections to effectively ensure the high safety of the transportation of toxic, flammable and explosive media in the pressure pipeline, avoiding the pollution of the ocean, sky, plants and other environmental pollution caused by leakage pollution.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Universal expansion joint



Type:

untied universal expansion joint

Untied universal expansion joints and pantograph linkages untied universal expansion joint can absorb large amount of lateral deflections in addition to axial and angular movements. Usually these type of expansion joints are provided with control rods to distribute the movement equally between the two bellows. Control rods are not designed to withstand pressure thrust.

tied universal expansion joint

Tied universal expansion joint is same as untied universal expansion joints, but with addition of tie rods. These tie rods are designed to withstand the pressure thrust and so the external movement of the expansion joint is constrained even if the pressure thrust is increased. Angular movement can be accommodated only if two tie rods are provided 180 degree apart. To restrict this angular movement, four tie rods are provided at interval of 90 degrees, around the circumference of the expansion joint.

Feature:

- Absorbs large amounts of lateral deflection
- Simple and robust construction
- Eliminates pressure thrust load
- Low maintenance

Application:

Universal expansion joints can absorb movements in all directions, and are used in uncritical, low pressure installations like ventilation ducts, exhaust gas systems, fresh air ventilation and process equipment.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

External pressurized expansion joint

Structure:

Bellow Material: SS321/SS304/SS316L on request

Pipe Material: Carbon Steel, the material can be customized on request

Connection Types: Flange or Welded End

Flange Material: Carbon Steel, the material can be customized on request

Inner Sleeve: SS321/SS304/SS316L on request



Feature:

1. Easy to absorb large expansion movements
2. Reducing the number of axial expansion joints saves on time and cost
3. Minimum application area
4. Preventing axial inaccuracies increases the system safety
5. Using internal guide rings in their design provides highly stable structure for connections

Application:

External pressure pipeline expansion joints are suitable for pipeline systems that require a large amount of axial compression or extension.

Typically used in steam distribution systems and LNG applications.

They can be buried or above ground.

Piping must be properly anchored and guided.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

In-line pressure balanced expansion joint

Type:

in-line pressure balanced expansion joint

It is composed of two working bellows at both ends, a balance bellows in the middle, tie rods, end plates and other structural parts. It is mainly used to absorb axial displacement and balance the pressure and thrust of the bellows.

bypass in-line pressure balanced expansion joint

Composed of two identical bellows, end ring, head, outer tube and other structural parts, it is mainly used to absorb axial displacement and balance the pressure and thrust of the bellows.

external pressurized in-line pressure balanced expansion joint

It is composed of two working bellows bearing external pressure, a balance bellows bearing external pressure, and end pipes, connecting pipes, outer pipes, end ring components and other structural parts, which are mainly used to absorb axial displacement and balance the pressure and thrust of the bellows.



Feature:

- 1.Simple to manufacture
- 2.Stable at high pressures
- 3.Absorbs small amounts of axial and lateral movement
- 4.Eliminates change in pressure
- 5.No main anchors required
- 6.Conserves space

Application:

Pressure balanced expansion joints are used with low pressure turbines, with condensers and also with pumps and other equipment, that may be susceptible to pressure loads.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Hinged Expansion Joints

Type:

single hinged expansion joint

Composed of a bellows, pin shaft, hinge plate and vertical plate

and other structural parts, it can only absorb the angular displacement in a plane and can withstand the pressure and thrust of the bellows.

universal hinged expansion joint

Composed of two bellows connected by the middle pipe and structural parts such as pin shafts, hinge plates and vertical plates, the expansion joint can only absorb lateral and angular displacement in one plane and can withstand the pressure and thrust of the bellows.

universal hinged in-line pressure balanced expansion joint

It consists of two working bellows at both ends and a balance bellows in the middle, and structural parts such as pin shafts, hinge plates and vertical plates. It is mainly used to absorb axial displacement and lateral displacement in a plane and balance the pressure and thrust of bellows.

Feature:

- 1.Absorbs angular movements in only one plane.
- 2.Eliminates pressure thrust loads.
- 3.Positive control over the movements.
- 4.Can support the dead weight of the intermediate piping.
- 5.Prevents torsion on the bellows elements.
- 6.Minimum guiding required.
- 7.Eliminates main anchors.
- 8.Low forces on piping system and adjacent equipment.

Application:

Air, Steam, Flue Gas Ducts, Power Plants
Chemical Industry, Petrochemical Industry
Gas Turbine System
Primary reformer ducts & burners
Steel Plants



*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT



Gimbal expansion joint

Type:

single gimbal expansion joint

Composed of a bellows and pin shaft, hinge plate, universal ring and vertical plate and other structural parts, it can absorb the angular displacement in any plane and can bear the pressure and thrust of the bellows.

universal gimbal expansion joint

Composed of two bellows connected by the middle pipe, cross pin shaft, hinge plate and vertical plate and other structural parts, it can absorb lateral and angular displacement in any plane and can withstand the pressure and thrust of the bellows.

universal gimbal in-line pressure balanced expansion joint

It consists of two working bellows at both ends, a balance bellows in the middle, and structural parts such as pin shafts, hinge plates, universal rings and vertical plates, which are mainly used to absorb axial displacement and lateral displacement in any plane. And it can balance the pressure and thrust of the bellows.

Feature:

1. Absorbs angular movements in all planes, And angular rotations, or any combinations of these.
2. Eliminates pressure thrust loads.
3. Positive control over the movements.
4. Can support the dead weight of the Intermediate Piping.
5. Transmits external loads like wind loading and shear loading.
6. Prevents torsion on the bellows elements.
7. Minimum guiding required.

Application:

Dilatation points of the buildings
 Area that seismic movements are occur
 Fuel tanks
 Filling Facilities
 Fire pipelines
 All pipelines

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Elbow pressure balanced expansion joint

Description:

Elbow pressure balanced expansion joint is composed of a working bellows or two working bellows connected by an intermediate pipe and a balanced bellows and elbow or tee, head, tie rod, end plate, spherical and tapered washer and other structures. It is mainly used to absorb the combined axial and lateral displacement and can balance the pressure and thrust of the bellows. Usually, the pipeline expansion joint is a constrained general-purpose type that can accept lateral movement. Because there is also axial deflection, pressure balanced elbows are usually required.



Feature:

- Absorbs axial and lateral movements
- Eliminates main anchors
- Minimum guiding required
- Pressure forces remain in balance
- No volume change
- Balance-pressure thrust remains constant

Application:

Elbow pressure balanced expansion joints are used in pipelines with a change of direction. Elbow pressure balanced expansion joints are used with low pressure turbines, with condensers and also with pumps and other equipment, that may be susceptible to pressure loads.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Spherical Compensator



Structure:

Sphere/Screw bolt/Nut: Carbon steel

Supported flange: ANSI,DIN,JIS,BS, SS304/Carbon steel

Working pressure: 0.6~30MPa

Working temperature: ≤ 500 °C

Feature:

- 1.Large compensation capacity, small occupation space, small fluid resistance and beautiful appearance.
- 2.Can rotate around the axis at any angle, can also bend in any direction, the bending angle is ± 15 °, a total of 30 °.
- 3.The sealing performance is good, the sealing material has large elasticity, low friction coefficient, good lubrication performance and small turning torque.
- 4.Can balance the blind force.
- 5.Can achieve universal multi-dimensional compensation, regardless of the pipeline horizontal or axial compensation and other arbitrary directions can meet the requirements.

Application:

Spherical compensator is a kind of equipment for solving thermal expansion and contraction of pipelines. It can be widely used in metallurgy, petroleum, chemical, electric power, light industry, textile, construction and national defense construction industries.

Spherical compensator is mainly suitable for pipeline connection with large ground settlement, large vibration and complex terrain, and is installed on the pipe. The sphere can be freely rotated within the angle θ of the center of rotation to compensate for the deflection of the pipeline due to foundation settlement, thermal expansion and contraction.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT



Sleeve compensator

Type:

Direct-buried sleeve compensator

It adopts advanced sealing structure and sealing materials, and is suitable for hot water, steam, grease and other media. The sliding movement of the outer sleeve achieves the compensation of thermal expansion.

Two-way sleeve compensator

It has a telescoping core tube in both directions of the ordinary outer sleeve. The compensation amount is twice that of the ordinary type, and it is used for two-way compensation, reducing the length and cost of using two ordinary types.

Disposable sleeve compensator

It is used to weld the two contact surfaces of the pipeline after preheating and expansion of the directly buried pipeline. The outer tube and the core tube can no longer move relative to each other, and then landfill, which has the same life as the pipeline.

Feature:

1. Compensate the axial, lateral and angular thermal deformation of the absorption pipeline.
2. The expansion and contraction of the corrugated compensator is convenient for the installation and disassembly of the valve pipeline.
3. Absorb equipment vibration and reduce the impact of equipment vibration on the pipeline.
4. Absorb the deformation of the pipeline caused by earthquake and ground subsidence.

Application:

It can be widely used in trenches and elevated pipelines in pipeline networks such as chemical industry, petroleum, thermal power, metallurgy, urban central heating and heating.



*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Rotary compensator

Structure:

- 1.rotary sleeve
- 2.packing & packing gland
- 3.body sleeve
- 4.anti-blowout retainer
- 5.Bolting
- 6.butt-welding end connection



Feature:

1. Large amount of compensation, according to the natural terrain and pipeline strength layout, a set of compensators can compensate 800m pipe section;
2. The blind plate force generated by the medium pressure is not generated, and the fixing bracket can be made small, which is especially suitable for large-diameter pipelines;
3. Excellent sealing performance, no maintenance required for long-term operation;
4. Save investment;
5. Convenient design and calculation;
6. The rotary compensator can be installed on the steam underground pipe and the hot water underground pipe, which can save a lot of investment and improve the safety of operation.

Application:

Rotary expansion joints are usually deployed in overhead pipe racks. They are widely used in hot water and steam applications, chemical & pharmaceutical industries, pulp and paper industry, as well as petroleum refinery.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

PTFE lined expansion joint



Description:

PTFE lined expansion joint is corrosion resistant and can withstand high pressure and high temperature through a space-saving design. PTFE is a synthetic fluoropolymer, which has been widely used due to its non-stick properties and resistance to certain chemicals. The pure PTFE expansion joint and PTFE lined expansion joint are specially designed for environmental corrosion applications.

Type:

1. Pure PTFE expansion joint
2. Wire braided PTFE expansion joint
3. Steel liner PTFE expansion joint
4. PTFE lined rubber expansion joint

Feature:

1. Withstands higher pressures and temperatures
2. Ideal for installation where space limitations are a factor
3. Available in two, three and five convolution construction
4. Lightweight design
5. Corrosion Resistant

Application:

PTFE lined expansion joints are widely used in paper mills, chemical plants, and other pipeline applications that deal with acids and strong corrosive chemicals, for displacement compensation and installation deviation caused by thermal expansion and contraction.

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Rubber expansion joint

Description:

Rubber expansion joints, also called rubber compensators, are flexible connectors made of natural and/or synthetic elastomers and fabrics. If necessary, internal metal reinforcement materials can be used. These materials are designed to relieve thermal movement and piping system stress caused by mechanical vibration.

Rubber expansion joint material: EPDM, NBR, NR



Type:

- Single ball rubber expansion joint
- Double ball rubber expansion joint
- Flange connection rubber expansion joint
- Threaded rubber expansion joint

Feature:

1. Good displacement compensation ability, capable of axial, lateral and angular displacement.
2. Low noise, good vibration damping and corrosion resistance.
3. High pressure resistance, good elasticity, good displacement effect and simple installation.

Application:

Rubber expansion joints can be widely used in heating and cooling devices, water pipes, desalination plants, compressors, blowers and fans, cement industry, chemical industry, glass industry, wood processing industry and other pipeline systems

*Regarding to the special standards and materials, please contact with us.

EXPANSION JOINT

Fabric expansion joint



Description:

Fabric expansion joints are extremely flexible and can be made from a variety of special woven fabrics coated or laminated with selected elastomers or fluoropolymers. Fabric expansion joints are easy to customize to suit existing operating conditions and are easy to transport and install. In comparison to metallic expansion joints fabric offers almost unlimited flexibility, giving the pipe work designer more options.

The type of fabric expansion joints are Round fabric expansion joint and Rectangular fabric expansion joint.

Feature:

1. Multidimensional direction can be compensated. Various forms, large compensation and long service life;
2. Effective compensation or elimination of installation errors;
3. Low stiffness and small elastic reaction;
4. High temperature range and good corrosion resistance;
5. It can effectively isolate vibration and reduce noise.

Application:

Gas turbine plants
Power plants, boiler or diesel powered plants
Dust Erection Plants
Cement Industry
Chemical & Petrochemical industry
Metallurgical and smelter industry

*Regarding to the special standards and materials, please contact with us.

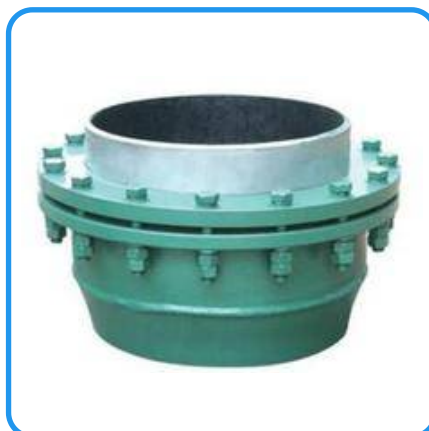
PRODUCTS DISPLAY

Flexible metal hose



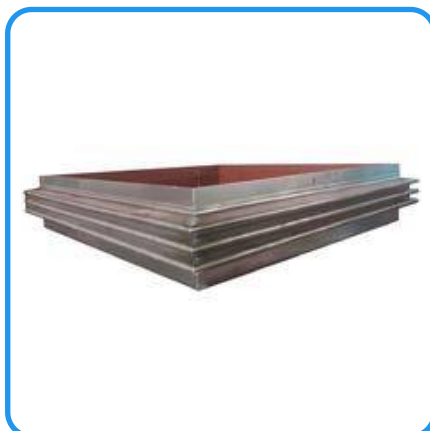
PRODUCTS DISPLAY

Expansion joint



PRODUCTS DISPLAY

Expansion joint



ORDER NOTICE

Customized products are supported.

Please tell us the detailed requirements of products as follows before quotation:

FLEXIBLE METAL HOSE:

1. Normal diameter
2. Total length
3. Materials or medium
4. Connection type
5. Working pressure
6. Working temperature

EXPANSION JOINT:

1. Normal diameter
2. Total length or waves number
3. Materials or medium
4. Connection type
5. Working pressure
6. Working temperature
7. Displacement amount (compensation amount)



ALL SERVICES FOR YOUR REQUIREMENT