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怀荣管道
Huirong Pipeline



Chinese Flange and Pipe Fitting
MANUFACTURER

Cangzhou Huirong
Pipeline Equipment Co., Ltd.

Boasting over 20 years of experience serving international markets, we are situated in Mengcun Hui Autonomous County — China's "Capital of Elbows and Pipe Fittings."

www.globalpipefit.com

CANGZHOU HUAIRONG

PIPELINE EQUIPMENT CO., LTD.

Boasting over 20 years of experience serving international markets, we are situated in Mengcun Hui Autonomous County — China's "Capital of Elbows and Pipe Fittings."

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Company INTRODUCTION

Cangzhou Huairong Pipeline Equipment Co., Ltd. is situated in Mengcun Hui Autonomous County—known as China's "Capital of Elbows and Pipe Fittings." Strategically located adjacent to Tianjin Port on the Bohai Bay and bordering Beijing to the north, the company enjoys a prime geographical position with convenient access to both sea and land transportation, providing a robust guarantee for the efficient delivery of global orders.



FLEXIBLE

AUTHORITY

SENIOR

HIGH EFFICIENCY

RELIABLE



Core Business

The company specializes in the R&D, manufacturing, and sales of carbon steel, stainless steel, and alloy steel flanges, as well as a comprehensive range of pipe fittings. Adhering strictly to international standards, we provide high-quality pipeline connection solutions to diverse global industries, including petrochemicals, oil and gas transmission, municipal engineering, and power generation.

Scale and equipment

Spanning a total area of 50,000 square meters—including a built-up area of 28,000 square meters—the company is equipped with over 10 specialized production lines for flanges and pipe fittings. These lines encompass core manufacturing processes such as forging, pressing, intermediate-frequency pushing, machining, cold forming, hot extrusion, and heat treatment.

COMPETENCE & GUARANTEE

Driven by advanced manufacturing and uncompromising quality standards, we deliver solutions you can trust worldwide.

Production Scale

Our standardized workshops cover the entire production workflow—from cutting, welding, and assembly to heat treatment, machining, and surface finishing. With an annual production capacity exceeding 30,000 tons, we possess the capabilities for large-scale manufacturing and rapid delivery, offering both standardized mass production and non-standardized customization services to fully meet the diverse and specific requirements of various engineering projects.



Quality Control & Standards

We have established a comprehensive, full-chain quality control system, supported by specialized testing equipment for spectral analysis, hydrostatic testing, and non-destructive testing. Our products comply with major international standards—including ASME, GB, EN, JIS, DIN, BS, and GOST—and have obtained ISO 9001 Quality Management System certification.

Reliable Performance

This ensures that our products deliver stable and reliable performance even under extreme conditions involving high temperatures, high pressures, and corrosive environments, thereby providing a solid guarantee for the engineering projects of our global clientele.

280

SKILLED WORKERS

50,000

SQUARE METERS
TOTAL FACTORY AREA

30,000

TONS ANNUAL CAPACITY

Our Advantage **WHY CHOOSE US?**



One-Stop

We provide a one-stop supply of flanges and a full range of pipe fittings in carbon steel, stainless steel, and alloy steel. From standard products to customized solutions, we help customers save sourcing time and improve procurement efficiency.



OEM/ODM Customization

We support OEM and ODM services based on different project requirements. With strong manufacturing capability and flexible production processes, we can provide customized flange and pipe fitting solutions for various industrial applications.



International Standards

Our products are manufactured in strict accordance with international standards such as ASME, GB, EN, JIS, DIN, BS, and GOST. With ISO9001 certification, we ensure reliable quality for global pipeline connection projects.



Strong Production Capacity

Our products are manufactured in strict accordance with international standards such as ASME, GB, EN, JIS, DIN, BS, and GOST. With ISO9001 certification, we ensure reliable quality for global pipeline connection projects.



Strict Quality Control

We have established a complete quality control system, supported by spectrographic analysis, hydrostatic testing, and non-destructive testing equipment. Every product is inspected carefully to ensure stable and dependable performance.



Reliable for Harsh Conditions

Our flanges and pipe fittings are designed to perform reliably under high temperature, high pressure, and corrosive environments. They are widely used in industries requiring safe, durable, and efficient pipeline connections.

OUR FACTORY

All photographs shown below were taken at our actual manufacturing facility. We exercise strict control over every stage of the production process, backed by over 20 years of specialized manufacturing experience and a 50,000-square-meter production base, to ensure product quality that is reliable and trusted by engineering projects worldwide.

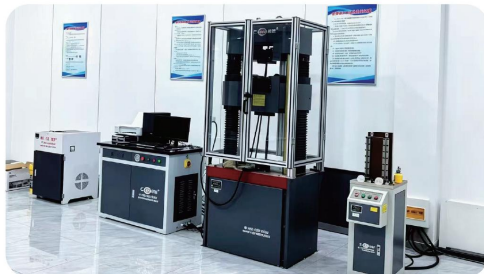


PLATE FLANGE

The Plate Slip-On Flange is a core sealing component for connecting pipelines in medium- and low-pressure working conditions. Manufactured with a plate-style forged structure, it is connected to the pipeline via slip-on welding, offering easy installation and cost control.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

It is suitable for various industrial conditions involving medium temperature, medium pressure, and corrosive media, and supports full specification customization.

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Suitable for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances, serving as an economical and efficient connection solution for medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN15-DN1200 (1/2"-48") and other common specifications, customizable
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Slip-On Welding
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

SOCKET WELD FLANGE

The Socket Weld Flange is a core sealing component in piping systems for connecting small- to medium-diameter pipelines under high-pressure conditions. Manufactured through an integral forging process, it is connected to the pipeline via a socket weld structure, effectively enhancing sealing reliability and fatigue resistance.



Machining



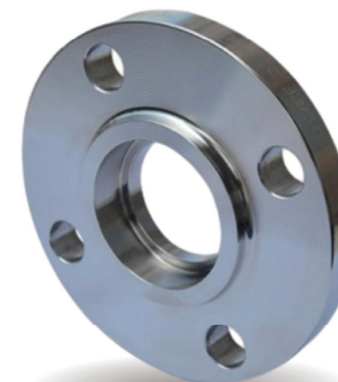
Tolerance



Connection



Compliance



DESCRIPTION

It is suitable for harsh industrial environments involving high temperature, high pressure, and corrosive media, and supports full specification customization.

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. It is suitable for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances, especially ideal for precise connection and sealing scenarios in small- to medium-diameter high-pressure piping systems.



DESCRIPTION

Product Size	DN15-DN1200 (1/2"-48") and other common specifications, customizable
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Socket Welding
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

WELD NECK FLANGE

The Weld Neck Flange is a widely used piping fitting designed for connections in high-pressure and high-temperature environments. Its characteristic neck extension provides greater strength and load-bearing capacity.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

The Weld Neck Flange is typically welded to the pipeline, and the weld joint offers high strength, making it suitable for harsh conditions such as high pressure, high temperature, and strong corrosion. Its design helps reduce stress concentration, ensuring the stability and safety of the piping system. (Custom manufacturing available)

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Suitable for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances.

DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Butt Welding
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

SLIP ON FLANGE WITH NECK

The Slip-On Flange with Neck is a core sealing component in piping systems designed for medium- to high-pressure connections. Manufactured with a forged plate structure featuring a neck, it is connected to the pipeline via slip-on welding.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

This design enhances fatigue resistance and sealing performance, making it suitable for a variety of industrial conditions including medium temperature, medium to high pressure, and corrosive media. Full specification customization is available.

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, and food processing industries for medium- and low-pressure fluid transmission systems. Compatible with steam, petroleum products, gases, and water, it is an ideal solution for piping connections requiring both safety and convenience.

DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Slip-On Welding
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

THREADED FLANGE

The Threaded Flange is a non-welded precision piping connection component. It achieves a sealed connection by screwing the internal threads of the flange plate onto the external threads of the pipe end.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

Its core features are a weld-free, detachable structure, making it the preferred solution for flammable, explosive, and no-weld environments.

APPLICATION

Application Fields: Widely used in medium- and low-pressure fluid transmission systems in industries such as power and energy, metallurgy, shipbuilding, pharmaceutical, and food processing. Compatible with media including steam, petroleum products, gases, and water, it is an ideal choice for piping connections where safety and convenience are essential.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc..
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Threaded connection
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

BLIND FLANGE

The Blind Flange is a core sealing component in piping systems designed to close the pipeline end and isolate pressure. Manufactured through an integral forging process, it features a full-face sealing structure that blocks the flow of media.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

It is suitable for harsh industrial conditions involving high temperature, high pressure, and corrosive media. Applications include pipeline end sealing, system maintenance, and temporary isolation. Full specification customization is available.

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transmission, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for steam, petroleum products, gases, flammable and explosive media, and corrosive substances. Especially suited for critical scenarios like pipeline end closure, system maintenance isolation, and temporary sealing.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Bolted connection (paired with pipe flanges, primary connection method)
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

LOOSE FLANGE

The Lap Joint Flange (also known as Loose Flange) is a key connection component in piping systems that enables flexible assembly. It features a slip-on structure that mates with a pipe flared end or a stub end for installation. The flange body can move freely relative to the pipe, significantly reducing the difficulty of assembly and disassembly.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

This design is especially suitable for medium- and low-pressure piping systems requiring frequent maintenance and cleaning. It is adaptable to various corrosive media conditions and supports full specification customization.

APPLICATION

Application Fields: Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Suitable for demanding conditions involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Loose joint (loose sleeve assembly, installed with pipe flanging / welding ring)
Temperature Range	-50°C ~ +200°C (specific temperature resistance varies with material and application conditions)

INTEGRAL FLANGE

The Integral Flange is a forged pressure-bearing flange connector formed as a single piece with the equipment body, without any welded joints. It is a critical component for end connections in high-pressure, high-temperature, and high-safety-grade equipment.



Machining



Tolerance



Connection



Compliance



DESCRIPTION

Its integral structure ensures outstanding strength, sealing reliability, and operational security, making it ideal for demanding industrial applications.

APPLICATION

Application Fields: Widely used in petroleum and petrochemical industries, oil and gas exploration, refining, thermal power, nuclear power, high-pressure vessels, compressors, and special valves. Suitable for critical conditions involving high temperature, high pressure, strong corrosion, and stringent safety requirements.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	PN2.5–PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, oil coating for rust prevention, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

180-DEGREE ELBOW

The 180° elbow is a core component in piping systems used to facilitate a U-turn (180° directional change). It is available in two specifications—Long Radius (LR) and Short Radius (SR)—enabling the creation of closed loops or return-bend layouts within the pipeline. Characterized by a smooth flow path and stable structure, it is suitable for a wide range of industrial operating conditions, including high-temperature, high-pressure, and corrosive environments, and is available for custom fabrication.

APPLICATION

Widely utilized across industries such as petroleum, chemicals, oil and gas transmission, power generation, metallurgy, shipbuilding, pharmaceuticals, district heating, and long-distance pipelines. It is suitable for demanding operating conditions involving steam, petroleum products, gases, flammable and explosive substances, and corrosive media—particularly in scenarios requiring U-shaped pipe bends or loop configurations.



DESCRIPTION

Product Size	DN15-DN1200(1/2" – 48") and other common specifications, customizable
Pressure Rating	2mm-50mm/SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

45-DEGREE ELBOW

45° elbow is a core pipe fitting for gentle directional change in piping systems. It is available in two specifications: Long Radius (LR) and Short Radius (SR), with a bending angle of 45°. Featuring a smooth structure, it reduces fluid friction and pressure loss, ensuring stable medium transportation. It is suitable for various industrial working conditions such as high temperature, high pressure and corrosive media, and supports customized processing.

APPLICATION

Widely used in petroleum, chemical industry, oil and gas transportation, electric power energy, metallurgy, shipbuilding, pharmaceutical, heating, long-distance pipelines and other industries. It is applicable to harsh working conditions involving steam, oil products, gas, flammable, explosive and corrosive media, and is especially suitable for engineering scenarios requiring gentle directional change of pipelines.



DESCRIPTION

Product Size	DN15-DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm-50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

90-DEGREE ELBOW

The 90° Elbow is a core piping fitting designed to achieve a 90° change in direction within a pipeline system. It comes in two specifications: Long Radius (LR) and Short Radius (SR). With a smooth inner wall and low flow resistance, it ensures stable and efficient fluid transportation.

■ DESCRIPTION

It is suitable for various industrial conditions including high temperature, high pressure, and corrosive media, and supports custom manufacturing.

■ APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

EQUAL TEE

The Equal Tee is a core piping fitting designed for three-way branching or merging with equal diameters in a pipeline system. All three outlets have the same diameter, ensuring smooth fluid transition at the branch point and maintaining stable flow.

■ DESCRIPTION

It is suitable for various industrial conditions including high temperature, high pressure, and corrosive media, and supports custom manufacturing.

■ APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances—particularly in scenarios requiring equal-diameter three-way distribution or convergence in pipelines.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



EQUAL CROSS



Resistance



Life

The Equal Cross is a core piping fitting designed to achieve four-way branching or merging with equal diameters in a pipeline system. All four outlets have the same diameter, ensuring smooth fluid transitions at the branch points and maintaining stable flow.

DESCRIPTION

It is suitable for a wide range of industrial conditions including high temperature, high pressure, and corrosive media, and supports custom manufacturing.

APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances—particularly in scenarios requiring equal-diameter four-way distribution or convergence in pipelines.



DESCRIPTION

Product Size

DN15–DN1200 (1/2"–48") and other common specifications, customizable

Pressure Rating

2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN

Manufacturing Standards

Compliant with GB, ANSI, DIN, JIS and other international standards

Material

Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.

Surface Treatment

Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements

Origin

China

Connection Type

Butt-welded

Temperature Range

-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



PIPE CAP



Resistance



Life

The Pipe Cap is a core piping fitting used to close off the end of a pipeline, providing complete blockage of media flow and sealing of the outlet. Featuring excellent pressure resistance and sealing performance, it effectively prevents leakage of the medium.

DESCRIPTION

The product is suitable for harsh industrial environments involving high temperature, high pressure, and corrosive media. It meets diverse application needs, including permanent closure of pipeline ends, temporary sealing, and system maintenance. Custom manufacturing is supported.

APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances—particularly in scenarios requiring equal-diameter three-way distribution or convergence in pipelines.



DESCRIPTION

Product Size

DN15–DN1200 (1/2"–48") and other common specifications, customizable

Pressure Rating

2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN

Manufacturing Standards

Compliant with GB, ANSI, DIN, JIS and other international standards

Material

Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.

Surface Treatment

Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements

Origin

China

Connection Type

Butt-welded

Temperature Range

-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

ECCENTRIC REDUCER

The Eccentric Reducer is a core piping fitting used to connect pipelines of different diameters, with the center points of both ends not aligned on the same axis. This design keeps one side of the pipe wall straight during the diameter change, effectively preventing liquid accumulation in the pipeline.

DESCRIPTION

It is suitable for a wide range of harsh industrial conditions, including high temperature, high pressure, and corrosive media, and supports custom manufacturing.

APPLICATION

Widely applied in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances—particularly in scenarios requiring prevention of liquid pooling, maintaining smoother flow, and ensuring effective drainage in horizontal pipelines.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc..
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

CONCENTRIC REDUCER

The Concentric Reducer is a core piping fitting designed to connect pipelines of different diameters, with both ends' center points aligned on the same axis. This geometry ensures a smooth and symmetrical transition of fluid at the diameter change, minimizing turbulence and maintaining flow efficiency.

DESCRIPTION

It is suitable for a wide range of industrial conditions, including high temperature, high pressure, and corrosive media, and supports custom manufacturing.

APPLICATION

Extensively used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances—particularly in scenarios requiring symmetrical diameter transitions and uniform fluid flow.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



PIPE BEND



Resistance



Life

Elbow is a key industrial pipe fitting used to achieve large-radius, gentle directional changes in piping systems. It is manufactured by medium-frequency induction bending or cold bending processes. Pipeline directional redirection can be realized through customized bending radii and angles. Compared with standard elbows, it features lower flow resistance and higher structural stability, making it suitable for high-pressure, high-temperature and corrosive medium working conditions. Full-specification customization is available.

■ APPLICATION

Widely used in petroleum, chemical engineering, long-distance oil and gas pipelines, electric power energy, metallurgy, shipbuilding, pharmaceutical, heating and other industries. Suitable for harsh working conditions involving steam, oil products, gases, flammable, explosive and corrosive media, especially for engineering scenarios requiring long-distance gentle redirection and limited space layout.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc..
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



LATERAL TEE



Resistance



Life

The Lateral Tee is a core piping fitting designed for three-way branching or merging at a non-right angle within a pipeline system. The branch outlet is positioned at an inclined angle (commonly 45°) relative to the main pipe, providing smoother flow transitions.

■ DESCRIPTION

This design significantly reduces fluid resistance and vortex losses, effectively minimizing pipeline vibration. It is suitable for harsh industrial environments involving high temperature, high pressure, and corrosive media, and supports custom manufacturing.

■ APPLICATION

Widely used in petroleum, chemical, long-distance oil and gas pipelines, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and other industries. It is ideal for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances, especially suitable for high-flow transportation scenarios requiring precise fluid resistance control and reduced pipeline impact.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

CONNECT THE WORLD WITH QUALITY



Construction



Dynamics



Resistance



Life

REDUCING TEE

The Reducing Tee is a core piping fitting designed to achieve three-way branching or merging within a pipeline system. The branch outlet has a different diameter from the main outlet, enabling flow distribution and convergence between pipelines of varying sizes.

DESCRIPTION

It ensures a smooth transition for fluids at the branch point and is suitable for various industrial conditions involving high temperature, high pressure, and corrosive media. Custom manufacturing is supported.

APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Suitable for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances, especially ideal for scenarios requiring diameter-changing flow distribution or convergence in piping systems.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc..
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



Construction



Dynamics



Resistance



Life

REDUCING ELBOW

The Reducing Elbow is a core piping fitting that integrates both directional change and diameter transition in a single component. With differing diameters at each end, it enables smooth pipeline direction changes while simultaneously achieving diameter reduction or enlargement.

DESCRIPTION

Its streamlined flow channel and stable structure effectively reduce fluid friction and pressure loss, ensuring efficient medium transportation. Suitable for harsh industrial environments involving high temperature, high pressure, and corrosive media, it supports full specification customization.

APPLICATION

Widely used in petroleum, chemical, oil and gas transportation, power and energy, metallurgy, shipbuilding, pharmaceutical, heating systems, and long-distance pipelines. Suitable for demanding applications involving steam, petroleum products, gases, flammable and explosive media, and corrosive substances. It offers an economical and efficient connection solution for medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications, customizable
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



45° SOCKET WELD ELBOW

The 45° Socket Weld Elbow is a key forged fitting in medium- to high-pressure piping systems that enables smooth directional changes. It features an integral forged structure with socket-type ends. After inserting the pipe ends into the sockets, the connection is secured via fillet welding, ensuring high connection strength and stable sealing performance.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design allows a 45° gradual turn in the pipeline, offering lower fluid resistance and reduced pressure loss compared to a 90° elbow. It is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" - 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD COUPLING

The Socket Weld Coupling is a key forged fitting in medium- to high-pressure piping systems for straight connections between pipes of the same diameter. It features an integral forged structure with socket-type ends. After inserting the pipe ends into the sockets, the connection is secured via fillet welding, delivering high connection strength and reliable sealing performance.



Coating



Rigidity



Finish



Application



DESCRIPTION

This design ensures stability of straight pipe sections and is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN15-DN1200 (1/2" - 48") and other common specifications, customizable
Pressure Rating	2mm-50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, SCH60, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)



SOCKET WELD UNION

The Socket Weld Union is a key forged fitting in piping systems for detachable connections. It consists of a socket end, nut, and sealing face, connecting to pipelines via socket welding. The nut is tightened to achieve face-to-face sealing, enabling quick assembly and disassembly without damaging the pipeline.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design facilitates maintenance and component replacement, offering reliable sealing and flexible installation. It is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD CROSS

The Socket Weld Cross is a key forged fitting in medium- to high-pressure piping systems for four-way fluid distribution or combination. It features an integral forged structure with four socket-type ends. After inserting the pipe ends into the sockets, the connection is secured via fillet welding, providing high connection strength and stable sealing performance.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design enables efficient four-way flow splitting and merging, and is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD REDUCING ECCENTRIC COUPLING



The Socket Weld Eccentric Reducer Coupling is a key forged fitting in medium- to high-pressure piping systems for connecting pipes of different diameters while maintaining the same bottom elevation. It features an integral forged structure with socket-type ends. After inserting the pipe ends into the sockets, the connection is secured via fillet welding, ensuring high connection strength and stable sealing performance.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design enables eccentric connections between pipes of varying sizes, preventing liquid accumulation inside the pipeline. It is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD BRANCH OUTLET



The Socket Weld Branch Outlet is a key forged fitting in medium- to high-pressure piping systems for branch connections. It features an integral forged structure and connects to both the main pipe and branch pipe via socket welding. After drilling an opening in the main pipe, it forms a high-strength socket-type branch interface that effectively distributes stress and preserves the integrity of the main pipe.



Coating



Rigidity



Finish



Application

DESCRIPTION

With excellent sealing performance, it is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD TEE



The Socket Weld Tee is a key forged fitting in high-pressure piping systems for splitting or combining fluid flow in three directions. It features an integral forged structure and connects to pipelines via socket welding. The pipe ends are inserted into the sockets and welded in place, ensuring easy installation and high sealing reliability.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SOCKET WELD ELBOW



The Socket Weld Elbow is a key forged fitting in medium- to high-pressure piping systems for changing pipeline direction. It features an integral forged structure with socket-type ends. After inserting the pipe ends into the sockets, the connection is secured by fillet welding, providing high connection strength and stable sealing performance.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design allows direction adjustment without compromising the pipeline structure and is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

SINGLE MALE NIPPLE



The Male Thread Adaptor is a transitional fitting in piping systems used for pipeline extension and threaded connections. One end features a male-threaded structure, while the other end is a plain pipe end that can be connected to the pipeline by welding or socket joining. The threaded end can be connected to valves, instruments, or other fittings.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design offers flexible installation and reliable connections, making it suitable for industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

BUTT WELD BRANCH OUTLET



The Butt Weld Branch Outlet is a key forged fitting in high-pressure piping systems for branch connections. It features an integral forged structure and connects to both the main pipe and branch pipe via butt welding, forming a high-strength, high-sealing branch interface on the main pipe.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design effectively distributes stress and prevents strength reduction after drilling into the main pipe. It is suitable for demanding industrial conditions involving high pressure, high temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

PIPE COUPLING



The Threaded Coupling is a key threaded fitting in piping systems for straight connections between pipes of the same diameter. It features an integral forged structure with full internal threads, allowing quick screw connection with male-threaded pipes or fittings at both ends.



Coating



Rigidity



Finish



Application

DESCRIPTION

This coupling provides a tight connection, easy assembly/disassembly, and eliminates the need for complex welding processes. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

PIPE CAP



The Threaded Pipe Cap is a key threaded fitting in medium- and low-pressure piping systems for sealing pipeline ends. It features an integral forged structure with internal threads that can be screwed onto male-threaded pipes or fittings to create a full-cover seal.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design effectively closes the pipeline end, blocks fluid flow, and protects the threaded end from damage. It ensures easy assembly/disassembly and reliable sealing, and is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

HEXAGON BUSHING



The Hexagonal Bushing is a key threaded fitting in medium- and low-pressure piping systems for diameter reduction connections. It features an integral forged structure with male threads on one end and female threads on the other, and a hexagonal middle section for easy tightening with a wrench.



Coating



Rigidity



Finish



Application

■ DESCRIPTION

This fitting enables transition and diameter reduction between large-diameter male-threaded pipelines and small-diameter female-threaded pipelines, adapting to the connection of components with different specifications. The design ensures flexible installation and reliable sealing. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

■ APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

HEXAGON MALE NIPPLE



The Hexagonal Male Nipple is a key threaded fitting in medium- and low-pressure piping systems for pipeline extension and transition connections. It features an integral forged structure with male-threaded ends and a hexagonal middle section for easy tightening with a wrench.



Coating



Rigidity



Finish



Application

■ DESCRIPTION

It can be quickly screwed into female-threaded pipes, valves, or fittings at both ends to achieve pipeline extension or transition between different components. The design ensures convenient installation and reliable connection. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

■ APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

45° THREADED ELBOW



The 45° Threaded Elbow is a key threaded fitting in medium- and low-pressure piping systems for smooth directional changes. It features an integral forged structure with female-threaded connections on both ends, enabling quick screw connection with male-threaded pipes or fittings to achieve a gentle 45° turn.



Coating



Rigidity



Finish



Application

DESCRIPTION

Compared to a 90° elbow, it offers lower fluid resistance and reduced pressure loss. Installation can be completed without welding, and the design ensures easy assembly/disassembly and reliable sealing. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

THREADED TEE



The Threaded Tee is a key threaded fitting in piping systems for three-way fluid distribution or convergence. It features an integral forged structure with female-threaded connections on all three ends, enabling quick screw connection with male-threaded pipes or fittings.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design allows branch or merging configurations without welding, ensuring flexible installation and reliable sealing. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)



THREADED CROSS

The Threaded Cross is a key non-welded fitting in medium- and high-pressure piping systems for four-way flow distribution or convergence. It features an integral forged structure with female-threaded connections on all four ends, enabling connection through screwing with male-threaded pipe ends.



Coating



Rigidity



Finish



Application

■ DESCRIPTION

Its core characteristics include a weld-free, detachable design, allowing the distribution and merging of media through four pipelines. It is suitable for demanding industrial conditions involving medium/high pressure, medium temperature, and corrosive media, and is especially ideal for systems in flammable, explosive, or non-welding environments. Full specification customization is available.

■ APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

THREADED ELBOW



The Threaded Elbow is a key threaded fitting in piping systems for changing pipeline direction. It features an integral forged structure with female threads on both ends, enabling quick screw connection with male-threaded pipes or fittings. This design allows direction adjustment without welding, ensuring flexible installation and reliable sealing.



Coating



Rigidity



Finish



Application

■ DESCRIPTION

It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

■ APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	DN6-DN100 (1/8" 4") and other common specifications, customization available
Pressure Rating	PN2.5-PN400 / CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

THREADED BRANCH OUTLET



The Threaded Branch Outlet is a key forged fitting in medium- and low-pressure piping systems for branch connections. It features an integral forged structure, with a welding bevel at the base for fixed welding to the main pipe, and a female-threaded connection at the top. This allows quick screw connection with male-threaded branch pipes, valves, or instruments.



Coating



Rigidity



Finish



Application

DESCRIPTION

After the main pipe is drilled, it forms a high-strength threaded branch interface that effectively distributes stress and maintains the integrity of the main pipeline. With excellent sealing performance, it is suitable for demanding industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is available.

APPLICATION

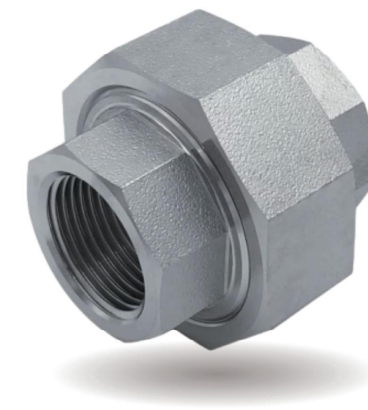
Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	Common sizes such as DN6-DN1000 (1/8"-4"), customizable
Pressure Rating	PN2.5-PN400/ CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with international standards such as GB, ANSI, DIN, JIS
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

FEMALE THREAD UNION



The Female Thread Union is a core threaded fitting in medium- and low-pressure piping systems for creating detachable connections. It consists of two female-threaded ends, a hex nut, and a sealing face. By tightening the nut, the sealing face is engaged to achieve end-face sealing, allowing rapid assembly and disassembly without damaging the pipeline.



Coating



Rigidity



Finish



Application

DESCRIPTION

This design facilitates equipment maintenance and component replacement, offering flexible installation and reliable sealing performance. It is suitable for various industrial conditions involving medium/low pressure, medium temperature, and corrosive media. Full specification customization is supported.

APPLICATION

Widely applied in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. Suitable for harsh working conditions involving steam, oil products, gases, flammable and explosive substances, as well as corrosive media. It serves as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Product Size	Common sizes such as DN6-DN100 (1/8"-4"), customizable
Pressure Rating	PN2.5-PN400/ CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS, and other international standards
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, etc.
Origin	China
Connection Type	Butt-weld
Temperature Range	-50°C to +450°C (specific temperature resistance depends on material and pressure rating)

DOUBLE MALE THREAD / DOUBLE MALE NIPPLE



The Double Male Thread Nipple is a core threaded fitting in medium- and low-pressure piping systems, designed for pipeline extension and transition connection. It features a solid forged or machined structure, with male threads on both ends and a plain shank section in the middle. This configuration allows quick screw connection with female-threaded pipes, valves, or fittings at both ends, enabling pipeline length extension or seamless transition between different components.



Coating



Rigidity



Finish



Application

DESCRIPTION

It offers easy installation and reliable connection, and can be customized in various lengths to meet specific requirements. Applicable to a wide range of industrial conditions, including medium/low pressure, medium temperature, and corrosive media. Full specification customization is supported.

APPLICATION

Widely used in industries such as petroleum, chemical, oil & gas transportation, electric power and energy, metallurgy, shipbuilding, pharmaceuticals, heating supply, and long-distance pipelines. It is suitable for severe working conditions involving steam, oil products, gases, flammable, explosive, and corrosive media. Serving as an economical and efficient solution for pipeline extension and transition connections in medium- and low-pressure piping systems.



DESCRIPTION

Pressure Rating	PN2.5-PN400/ CLASS150, CLASS300, CLASS600, CLASS900, CLASS1500, CLASS2500
Manufacturing Standards	Compliant with GB, ANSI, DIN, JIS, and other international standards
Material	Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling & passivation, oil coating for rust prevention, paint, hot-dip galvanizing
Origin	China
Connection Type	Socket weld
Temperature Range	-50°C ~ +450°C (specific temperature resistance range subject to material and application conditions)

BELLOWS EXPANSION JOINT



The Bellows Expansion Joint (also known as Metal Bellows Pipe Expansion Joint) is a core thermal compensation and vibration damping component in pipeline systems. Its main structure consists of stainless steel bellows, flanges, and limit tie rods.

DESCRIPTION

It is primarily used to compensate for axial, lateral, and angular deformations in pipelines caused by thermal expansion/contraction, mechanical displacement, and foundation settlement. Additionally, it absorbs vibrations and noise generated by industrial equipment, preventing pipeline rupture due to stress concentration. It is a critical safety component for high-temperature, high-pressure, and complex operating conditions.

APPLICATION

Widely used in petroleum & petrochemical, oil & gas transportation, power & energy (thermal & nuclear), metallurgy & steelmaking, marine & offshore engineering, municipal heating, and wastewater treatment industries. Suitable for conveying steam, high-temperature flue gas, oil & gas, corrosive media, and cryogenic fluids, meeting the demands of harsh conditions such as high temperature & pressure, strong vibrations, and large displacement.



DESCRIPTION

Product Size	Common specifications: DN25 - DN1200 (1" - 48"), supporting large-diameter customization.
Pressure Rating	PN6 - PN100 / Class 150, Class 300, Class 600.
Manufacturing Standards	Complies with international standards such as GB, ANSI, DIN and JIS.
Material	Bellows: Stainless steel. Flange / Tie Rod: Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel.
Surface Treatment	Including galvanizing, painting, epoxy anti-corrosion, pickling passivation, polishing, sandblasting, etc. (customized according to customer requirements).
Origin	China
Connection Type	Flange connection (standard configuration); customizable welding connection (butt welding / socket welding) is available.
Temperature Range	-196°C ~ +450°C (the specific temperature resistance range depends on the material and application working conditions).

WATERPROOF SLEEVE

CONNECT THE WORLD WITH QUALITY

The Waterproof Casing (also known as Wall Penetration Casing or Embedded Casing) is a core protective and water-blocking component in pipeline systems when pipes pass through building walls (e.g., basements, pools, external walls). It is mainly classified into rigid and flexible types.

DESCRIPTION

Its primary functions are to secure the wall-penetrating pipeline, prevent wall cracking caused by pipe vibration, and block water seepage paths via water-stop rings or rubber sealing rings, thus avoiding leakage. It is an indispensable embedded part in water supply & drainage, municipal, and industrial building projects.



APPLICATION

Widely used in municipal engineering, high-rise buildings, underground garages, wastewater treatment plants, petrochemical complexes, power station pump rooms, water plant pools, and metallurgy & mining projects. Suitable for embedding pipelines such as water supply, drainage, fire protection, and industrial process pipes through walls—especially for underground and humid environments requiring waterproofing, anti-seepage, and vibration protection.

DESCRIPTION

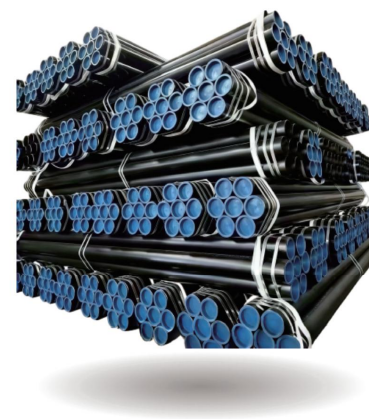
Product Size	Common specifications: DN15 to DN1200 (1/2" to 48"), supporting customization according to actual needs.
Pressure Rating	PN6 to PN25 / Class 150 (meets the pressure requirements of most industrial scenarios).
Manufacturing Standards	Complies with international standards such as GB, ANSI, DIN and JIS, ensuring stable performance and reliable quality.
Material	Including carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc., suitable for different working conditions and medium characteristics.
Surface Treatment	Including pickling passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., customized according to customer requirements.
Origin	China
Connection Type	Embedded casting (combined with the wall), after pipeline installation, it adopts packing seal (rigid type) or pressure plate fixation (flexible type) to ensure connection stability.
Temperature Range	-20°C to +450°C; the specific temperature range varies according to the product material and actual application scenario.

STEEL PIPE

The Steel Pipe is a fundamental core transportation component in pipeline systems. It is a long strip of steel with a hollow cross-section, primarily responsible for conveying various fluid media and serving as structural support in industrial applications.

DESCRIPTION

According to the forming process, steel pipes are classified into two main categories: seamless and welded. They are indispensable key materials in industrial production and infrastructure construction.



APPLICATION

Widely used in petroleum & petrochemical, oil & gas transportation, power & energy, metallurgy & shipbuilding, pharmaceutical & food processing, municipal engineering, and HVAC heating industries. Suitable for carrying steam, petroleum products, natural gas, corrosive media, cryogenic fluids, and drinking water, meeting the demands of high-temperature, high-pressure, flammable/explosive, and highly corrosive operating conditions.

DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications; customization available
Pressure Rating	2mm–50mm / SCH5, SCH10, SCH20, SCH30, STD, SCH40, XS, SCH80, SCH100, SCH120, SCH140, SCH160, XXS, JIS, DIN
Manufacturing Standards	Complies with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded, flanged connection, grooved connection, threaded connection
Temperature Range	-20°C ~ +450°C (specific temperature resistance depends on material and application conditions)

PIPE EXPANSION JOINT

The Pipeline Expansion Joint (also known as Expansion Coupling or Limit Expansion Joint) is a core axial displacement compensation component in pipeline systems. It consists of an expansion tube, body, gland, and limit bolts.

DESCRIPTION

Its primary function is to achieve allowable axial expansion and contraction, compensating for length changes caused by thermal expansion/contraction, foundation settlement, or installation deviations. It also facilitates the disassembly and maintenance of valves and pumps. This makes it a critical accessory for medium- and low-pressure water supply & drainage, heating systems, and industrial pipelines.



APPLICATION

Widely used in municipal water supply & drainage, fire protection networks, heating & thermal systems, wastewater treatment plants, waterworks, petrochemical industry, power station pump rooms, metallurgy, and mining sectors. Suitable for transporting various media such as clean water, wastewater, circulating water, petroleum products, and gases—especially in pipeline systems requiring frequent maintenance of valves/pumps or experiencing thermal expansion/contraction or foundation settlement.

DESCRIPTION

Product Size	DN25–DN1200 (1"–48") and other common specifications; customization available
Pressure Rating	PN6–PN25 / Class 150 (higher pressure ratings can be customized as required)
Manufacturing Standards	Complies with international standards such as GB, ANSI, DIN and JIS, ensuring stable performance and reliable quality.
Material	Body / Expansion Pipe / Flange: Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel; Sealing Ring: Natural rubber, EPDM, NBR, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Flanged connection; welded connection customizable
Temperature Range	-40°C ~ +420°C (specific temperature resistance depends on material and application conditions)

METAL FLEXIBLE HOSE

The Metal Hose (also known as Stainless Steel Metal Hose or Corrugated Metal Hose) is a high-flexibility connecting component in pipeline systems. It is composed of a corrugated tube, braid sheath, and end fittings (flanged/threaded/welded).

DESCRIPTION

Its core functions include compensating for multi-directional pipe displacement, absorbing vibration and noise from equipment, and withstanding high temperature, high pressure, and corrosive media. It is a key flexible component for resolving pipeline stress concentration and providing vibration isolation for equipment.



APPLICATION

Widely used in petroleum, chemical, oil & gas transportation, power & energy, metallurgy, shipbuilding, pharmaceutical, heating supply, and long-distance pipeline industries. Suitable for demanding conditions involving steam, petroleum products, gases, flammable/explosive media, and corrosive substances—especially where multi-directional displacement compensation, equipment vibration damping, high temperature/high pressure resistance, or strong corrosion resistance are required.

DESCRIPTION

Product Size	DN8–DN600 (1/4"–24") and other common specifications; customization available
Pressure Rating	PN10–PN25 / Class 150 (higher pressure ratings can be customized as required)
Manufacturing Standards	Complies with GB, ANSI, DIN, JIS and other international standards
Material	Bellows / Mesh Sleeve: Stainless steel; End Fittings / Flanges: Carbon steel, stainless steel, alloy steel, low-temperature steel, duplex steel (as per customer requirements)
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc. (as per customer requirements)
Origin	China
Connection Type	Flanged connection, threaded connection, butt-welded
Temperature Range	-196°C ~ +450°C (specific temperature resistance depends on material and application conditions)

INSULATING JOINT

The Insulating Joint is a key electrical insulation and anti-corrosion safety component in pipeline systems. It consists of an insulating sleeve, insulating gasket, sealing ring, and pipe segment/flange ends.

DESCRIPTION

Its core functions are to prevent electrical current conduction between pipelines, protect against electrochemical corrosion and stray current damage, while ensuring mechanical strength and sealing performance. It is an essential protective part for long-distance oil & gas transportation, buried pipelines, and chemical anti-corrosion applications.

APPLICATION

Widely used in petroleum, chemical, oil & gas transportation, power & energy, and long-distance pipeline industries. Suitable for buried pipelines, oil & gas transmission lines, and piping systems with high anti-corrosion requirements—especially in scenarios requiring current isolation to prevent electrochemical corrosion in buried and long-distance pipeline projects.



DESCRIPTION

Product Size	DN15–DN1200 (1/2"–48") and other common specifications; customization available
Pressure Rating	PN6–PN100 / Class 150, Class 300, Class 600 (customized according to wall thickness and pipe schedule)
Manufacturing Standards	Complies with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded
Temperature Range	-50°C ~ +450°C (specific temperature resistance depends on material and application conditions)

METAL FLEXIBLE HOSE

The Manhole is a critical inspection and safety sealing component for storage tanks, vessels, towers, and pipeline systems. It is composed of flanges, cover plates, hinges, lifting rings, and fastening elements.

DESCRIPTION

Its primary function is to provide personnel with access to the interior of containers or pipelines for equipment installation, inspection, cleaning, and maintenance. At the same time, its sealing structure ensures the safety of internal pressure and media. It is an essential accessory for industrial production and vessel operation & maintenance.



APPLICATION

Widely used in petroleum & petrochemical, oil & gas transportation, power & energy, metallurgy & shipbuilding, pharmaceutical & food, wastewater treatment plants, waterworks, and tank engineering. It serves as the key access component for maintenance, inspection, and cleaning of various storage tanks, vessels, towers, and pipeline systems—particularly suitable for industrial containers and pipelines requiring periodic internal inspection and handling of pressurized or corrosive media.

DESCRIPTION

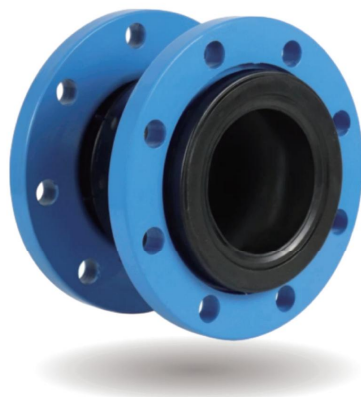
Product Size	DN400–DN1000 (16"–40") and other common specifications; customization available
Pressure Rating	PN6–PN25 / Class 150, Class 300 (customized according to the service environment)
Manufacturing Standards	Complies with GB, ANSI, DIN, JIS and other international standards
Material	Carbon steel, stainless steel, alloy steel, pipeline steel, low-temperature steel, duplex steel, etc.
Surface Treatment	Pickling and passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Butt-welded (flange welded and fixed to the vessel/pipeline wall, consistent with the figure); bolted connection customizable
Temperature Range	-50°C ~ +450°C (carbon steel/pipeline steel); -196°C ~ +650°C (alloy steel/low-temperature steel/duplex steel/stainless steel). The specific temperature resistance depends on the material and application conditions.

RUBBER EXPANSION JOINT

The Rubber Expansion Joint (also known as Flexible Rubber Joint or Rubber Bellow Joint) is a key flexible connecting component in a piping system, consisting of a rubber sphere body combined with flanges at both ends.

DESCRIPTION

Its core functions include compensating for axial, lateral, and angular displacements caused by thermal expansion/contraction or foundation settlement, efficiently absorbing vibration and noise generated by equipment such as pumps and fans, and protecting the piping system, flange connections, and terminal equipment. It is an indispensable shock absorption and compensation part in industrial and municipal pipelines.



APPLICATION

Widely used in petroleum & petrochemical, oil & gas transportation, power and energy, metallurgy & shipbuilding, pharmaceutical & food, municipal engineering, HVAC heating systems, and wastewater treatment industries. Suitable for conveying water, wastewater, steam, petroleum products, gases, weak acids, and weak alkalis, meeting the requirements of medium/low pressure, frequent vibration, and large installation deviation conditions.

DESCRIPTION

Product Size	DN25–DN1200 (1" – 48") and other standard sizes; large-diameter customization available
Pressure Rating	PN6–PN40 / Class 150, Class 300 (higher pressure ratings can be customized as required)
Manufacturing Standards	Conforms to GB, ANSI, DIN, JIS and other international standards
Material	Flange: carbon steel, stainless steel, alloy steel; Rubber: natural rubber, NBR, FKM, EPDM, etc.; Metal reinforcement layer (e.g. steel wire braided layer or steel plate reinforced layer)
Surface Treatment	Flange: pickling & passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc.; Rubber ball: natural rubber color, customized colors, etc. (as per customer requirements)
Origin	China
Connection Type	Flanged connection
Temperature Range	-20°C ~ +150°C (depending on rubber type and working conditions; some high-temperature models up to +250°C)

DOMED VENT CAP

The Dome-Type Vent Cap (also known as Vent Pipe, Breather Cap, or Z-Type Vent Cap) is a core venting and protective component in water supply & drainage systems and storage tank setups. It is composed of a cylinder body, top cover, lifting ring, and support rods.

DESCRIPTION

Its primary functions are to balance the internal and external air pressure of pipelines or water tanks, discharge harmful gases, prevent negative pressure from collapsing structures, and block rainwater and debris from entering pipelines and causing blockages. It is a critical accessory for water tanks, storage tanks, and water supply & drainage pipelines.



APPLICATION

Widely used in municipal water supply and drainage, fire-fighting water tanks, wastewater treatment plants, waterworks, petrochemical industry, electric power, and metallurgy sectors. Suitable for venting systems of tanks/pools containing various media such as clean water, wastewater, petroleum products, and gases—especially for outdoor applications requiring long-term use, debris prevention, and pressure balance.

DESCRIPTION

Product Size	DN100–DN600 (4"–24") and other common specifications; customization available
Pressure Rating	Atmospheric pressure design; pressure-bearing models can be customized according to working conditions
Manufacturing Standards	Complies with GB 02S403, ANSI, DIN, JIS and other international standards
Material	Body / Cylinder / Flange: Carbon steel, stainless steel, alloy steel; Seals: Rubber gaskets (configured as required)
Surface Treatment	Pickling and passivation, anti-rust oil coating, anti-corrosion painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements
Origin	China
Connection Type	Welded connection; flanged connection customizable
Temperature Range	-40°C ~ +420°C (specific temperature resistance depends on material and application conditions)

PIPE SUPPORT & HANGER

Pipe supports are core bottom supporting components in piping systems, consisting of pipe clamps, supporting brackets and base plates, serving as a key part of the pipe support and hanger system. They are mainly used to support pipelines and bear the self-weight of pipelines as well as medium loads. Meanwhile, by being equipped with sliding or guiding structures, they allow displacement caused by thermal expansion and contraction of pipelines, disperse pipeline stress, and ensure stable operation of pipelines under various working conditions, making them essential supporting parts for industrial and municipal pipelines.



APPLICATION

Widely used in petrochemical industry, oil and gas transportation, electric power energy (thermal power / nuclear power), metallurgy and iron & steel, shipbuilding and marine engineering, municipal water supply and drainage, thermal heating, sewage treatment plants, pharmaceutical and food industries, etc. They are suitable for piping systems with various pipe diameters, pressures and media. As core supporting components for ensuring stable pipeline operation, load distribution and displacement control, they are especially ideal for long-distance pipelines, high-temperature and high-pressure pipelines, and equipment connection scenarios with frequent vibration.

DESCRIPTION

Product Size

DN15-DN3000 (1/2" - 120"); height and length can be customized to installation requirements

Load Rating

Light duty ($\leq 500\text{kg}$), Medium duty (500-2000kg), Heavy duty ($\geq 2000\text{kg}$); customizable according to total pipeline load

Manufacturing Standards

Conforms to GB, ANSI, DIN, JIS and other international standards

Material

Pipe clamp / support housing / base: Carbon steel, stainless steel; Liner: Rubber, PTFE, asbestos

Surface Treatment

Pickling & passivation, anti-rust oil coating, painting, hot-dip galvanizing, sandblasting, etc., as per customer requirements

Origin

China

Connection Type

Welding, bolted clamp connection

Temperature Range

-20°C ~ +450°C (Rubber $\leq 120^\circ\text{C}$, PTFE $\leq 260^\circ\text{C}$); actual temperature range depends on material and application conditions

AFTER-SALES SERVICE

What after-sales services does Huairong provide to customers?

We provide comprehensive after-sales support to ensure that customers receive not only products, but also reliable service. Our after-sales service includes order follow-up, document support, technical communication, quality feedback handling, and coordination on any questions related to delivered goods. We value long-term cooperation and strive to respond quickly and professionally to customer needs after shipment.



How does Huairong handle quality issues after delivery?

If a customer raises a quality concern after delivery, our team will respond promptly and review the issue based on the order specifications, inspection records, photos, videos, or other supporting information provided. We will communicate closely with the customer to identify the cause and propose a practical solution in a timely manner. Our goal is to protect the customer's project progress and maintain a responsible, cooperative partnership.

Can Huairong provide technical support and documentation after shipment?

Yes. We can continue to provide relevant technical support and order-related documents after shipment when needed. Depending on the order requirements, this may include material certificates, inspection reports, packing lists, invoices, and other supporting documentation. Our team also remains available to answer technical questions related to product specifications, standards, and applications.

COMPANY

What are the advantages of cooperating with Cangzhou Huairong Pipeline Equipment Co., Ltd.?

Cangzhou Huairong Pipeline Equipment Co., Ltd. combines manufacturing strength, strict quality control, and efficient global delivery service. Located in Mengcun Hui Autonomous County—China's well-known hub for elbows and pipe fittings—and close to Tianjin Port, we benefit from a strong industrial supply chain and convenient transportation. With extensive experience in producing flanges and pipe fittings, we are able to provide reliable products, competitive pricing, and stable lead times for customers worldwide.

Why do global customers choose Huairong as their pipeline equipment supplier?

Customers choose us because we offer a dependable combination of product quality, production capacity, and responsive service. Our products are manufactured in accordance with international standards, and we serve a wide range of industries such as oil and gas, petrochemical, power generation, and municipal engineering. We understand the needs of international buyers and aim to provide professional support throughout the entire process, from inquiry to delivery.

How does Huairong ensure stable product quality for international projects?

We have established a comprehensive quality control system covering raw material selection, production, inspection, and final delivery. Our factory is equipped with testing facilities for spectral analysis, hydrostatic testing, and non-destructive testing to ensure that products meet required technical standards. In addition, our products comply with major international standards such as ASME, GB, EN, JIS, DIN, BS, and GOST, and our ISO 9001 certification further supports consistent quality management.



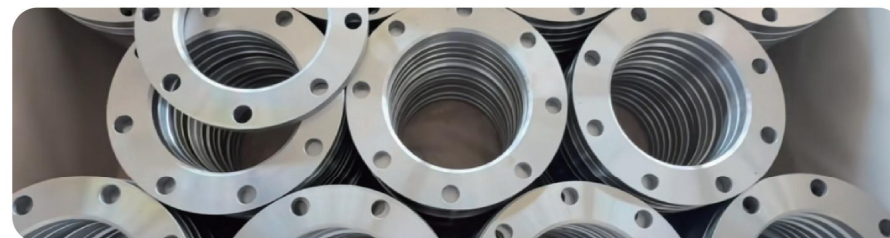
CUSTOMER SUPPORT

What support can Huairong provide before placing an order?

Before an order is placed, we can assist customers with product consultation, quotation preparation, technical communication, and specification confirmation. Our team helps customers better understand available materials, standards, dimensions, and manufacturing options so that the selected products match the intended application and project requirements.

What information should customers provide for a quotation?

To prepare an accurate quotation, customers are encouraged to provide key information such as product type, size, standard, material grade, pressure rating, wall thickness, quantity, and any special requirements. If drawings, technical specifications, or project documents are available, sharing them will help us provide a more precise and efficient quotation.



Can Huairong assist with packaging, inspection, and export arrangements?

Yes. We can provide suitable packaging solutions according to product type and shipping requirements to help ensure safe transportation. We also support product inspection arrangements based on order requirements and can coordinate export-related processes for international shipments. Our aim is to help customers receive their goods smoothly, safely, and on time.