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## PROFESSIONAL SUPPLIER

OF COMPREHENSIVE SOLUTIONS FOR COMPRESSED  
PIPING SYSTEMS

GUANGDONG FOSTER FLUID TECHNOLOGY CO., LTD.

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 **FST pipe**



FSTpipe is committed to the transmission of fluid media such as  
COMPRESSED AIR, INERT GAS, TAP WATER, DRINKING  
WATER, NATURAL GAS AND LIGHT PARTICLES.



SAFE



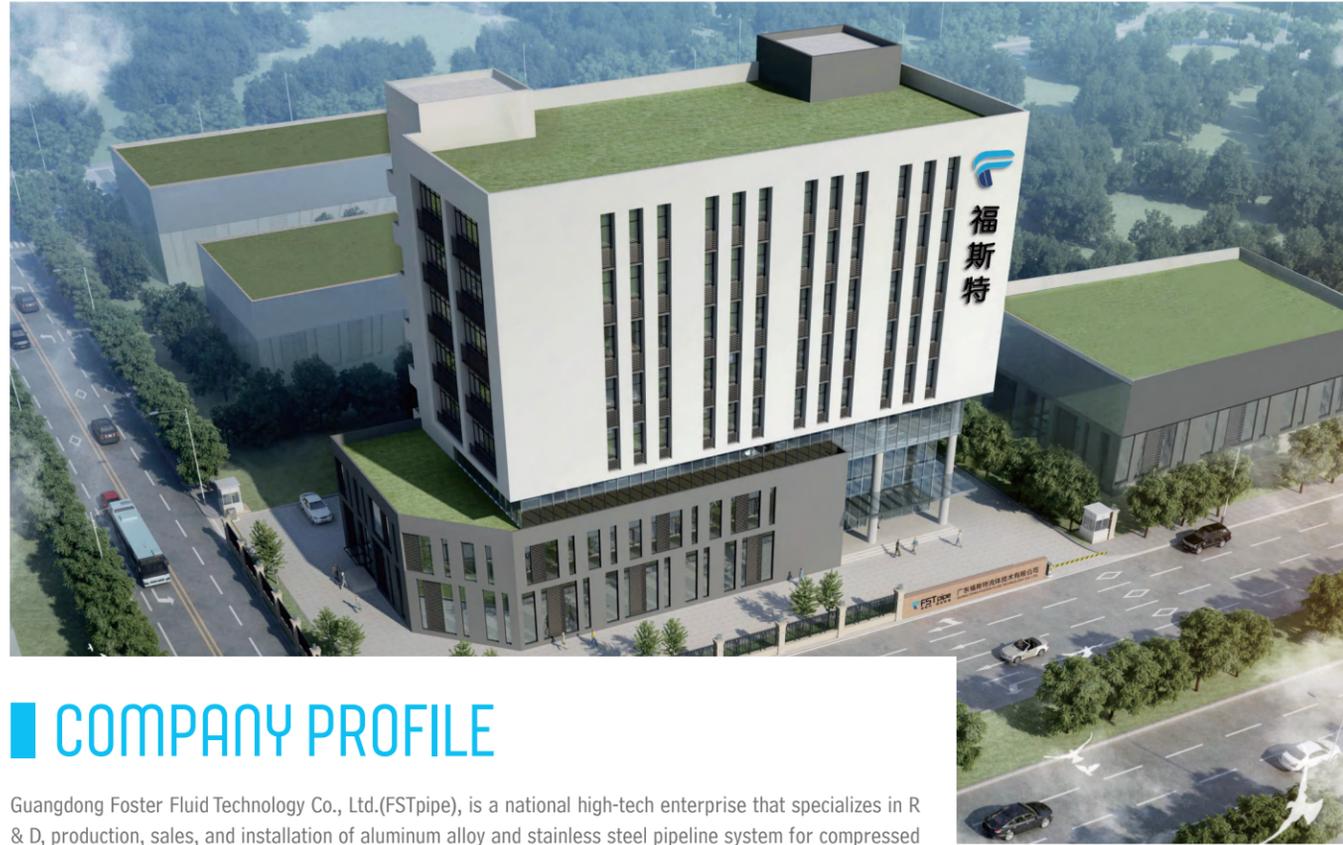
QUICK



SAVING



CLEAN



## COMPANY PROFILE

Guangdong Foster Fluid Technology Co., Ltd.(FSTpipe), is a national high-tech enterprise that specializes in R & D, production, sales, and installation of aluminum alloy and stainless steel pipeline system for compressed air, inert gases, vacuum, and drinking water.

FSTpipe has a strong professional team, from product design, development, and production to sales consulting, there are professional products, applications, installation engineers, and sales managers to provide you with pre-sale, in-sale and after-sale technical installation consultation service. The FSTpipe compressed air pipe system is widely used in aerospace manufacturing, automobile manufacturing, precision electronics, machinery manufacturing, Packaging and printing, home appliance manufacturing, furniture manufacturing, tobacco, food, medicine, and many other high-end Industries. FSTpipe products have more than 100 national patents, with energy-saving and environmental protection, fast installation, Rugged and other characteristics.

FSTpipe always pays attention to the core needs of customers, in order to improve their productivity and profitability ability to reduce users' production energy consumption. With its advanced technology, excellent quality, and a win-win strategy of strategic cooperation, FSTpipe has offices at home and abroad. The products are warmly welcomed in Australia, America, Mexico, Colombia, Brazil, and Southeast Asian countries such as Thailand, Pakistan, Cambodia, and Vietnam. The perfect sales and service network occupies the commanding heights of the industry.

## COMPANY CULTURE



### CORE VALUE

Innovation as the soul, create win-win cooperation.



### COMPANY MISSION

To be a global professional supplier of comprehensive solutions for the compressed pipeline systems.



### COMPANY VISION

All pipelines are our business scope.

## COMPANY QUALIFICATION

Supervised by the national special inspection department, FSTpipe has obtained the "Special Equipment Manufacturing License" in China (TS certification), "Special Equipment Production License" (G C Level 2), ISO9001, ISO14001 and other certificates and honors. It has become a reliable choice for the majority of users.

To your entrustment, we must promise. We will give customers ten years of quality assurance to escort your career!



## MANUFACTURING WORKSHOP

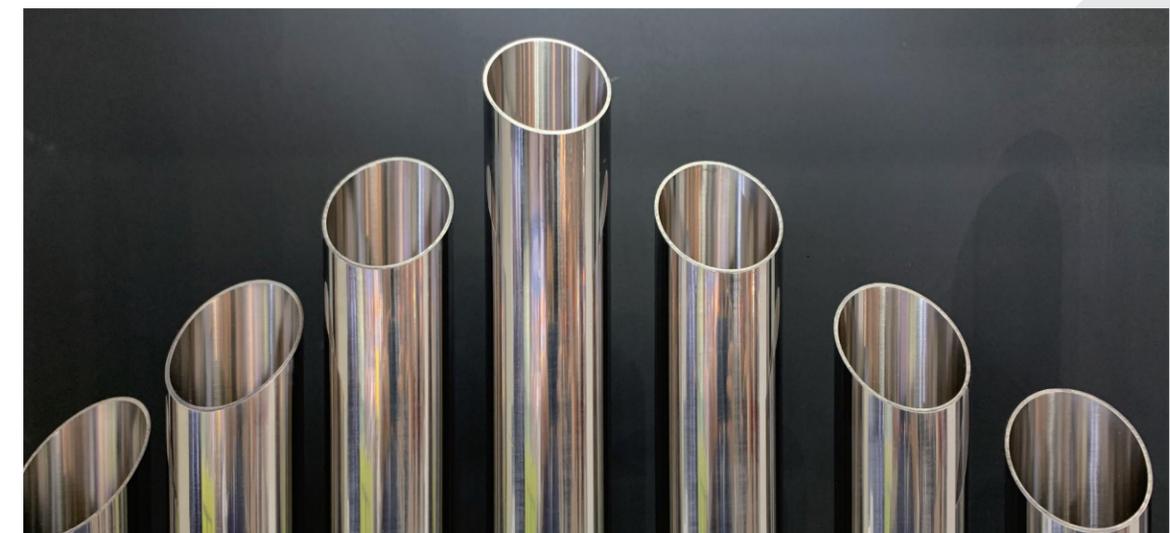
FSTpipe has a complete production line of S304, S316 stainless steel pipes, complete production line of double clamp and hoop type pipe fittings. The products have passed the relevant tests of hygiene, physical and chemical properties. We are committed to providing customers with high value-added products and services based on the principle of "scientific design, precision manufacturing, and strict inspection".

The main equipment for the production of stainless steel piping system includes: pipeline manufacturing, double-card press forming machine, pipe bending machine, polishing machine, automatic welding machine, solid melting furnace and other auxiliary equipment.



## PRODUCT PARAMETERS

Pipe Standard	DN15、DN20、DN25、DN32、DN40、DN50、DN65、DN80、DN100、DN125、DN150、DN200、DN250、DN300		
Pipe Material	S304、S316	Applications	Compressed Air, Nitrogen, Inert Gas, Vacuum, Drinking Water...
Pressure Level	1.6MPa	Fitting Standard	DN15-DN300
Connection	Double-compression, Clamp	Fitting Material	S304、S316
Sealing Material	Nbr Nitrile, Mvq Silica Gel, Vitona Fluorine Rubber	Operating Temperature	-40°C ~120°C -40°C ~200°C



In order to get the maximum return on your investment, to ensure the lowest pressure drop and energy consumption, **FSTpipe** provides various diameter pipes for your choice.



## CORE TECHNOLOGY

### RING PRESSURE CONNECTION

The ring pressure pipe is divided into a stable section and a sealing section at the socket. The port of the sealing section is not closed until the compression is removed. When connecting, put the sealing ring on the straight pipe into the socket, use a special tool to apply pressure to the joint between the pipe fitting and the pipe, and insert the outer diameter of the pipe into the pipe. After the compression, the pipe fitting and the pipe joint engage each other to form a closed sealed cavity. The volume of the sealed cavity is further compressed, so that the sealing material is fully filled into the entire cavity to achieve sealing.

### DOUBLE-PRESSURE CONNECTION

The double-clamping pipe fitting contains an embedded O-shaped sealing ring, and the straight pipe is inserted into the seal tightly. Then, a special double-clamping tool is used to compress the double-clamping pipe fitting and the straight pipe to achieve a rigid contraction deformation lock and a firm connection.

### SOCKET WELDING CONNECTION

The socket welding connection uses the reduced diameter root of the socket pipe fitting to locate, and the straight pipe is quickly inserted to increase the rigidity of the pipe fitting connection part, and then the pipe fitting and the pipe are welded firmly to the port part.

### HOOP CONNECTION

FSTpipe's newly developed hoop-type connector uses hoop plates and sealing rings to form a whole, so as to achieve a good seal and a firm connection. The sealing ring is a contact seal, making it more reliable. At the same time, the hoop-connected pipe is in surface contact with the pipe fittings, and the extension edge can well absorb the external force. Under the internal pressure of the pipe, it can resist a deflection angle of 30° without leakage.



## PRODUCT CHARACTERS



**Ten-year Warranty**  
Free replacement of various vulnerable pipeline components



**Reusable**  
The components can be expanded and reused at will



**Cold And Heat Resistant**  
Working temperature: -40°C~200°C



**Universal**  
All types of low pressure pipelines are universal



**Clean And Hygienic**  
Can be used in food hygiene, medical and pharmaceutical fields



**Strong Corrosion Resistance**  
Applicable to: oil, water, gas and corrosive media



**Quick Install**  
No need to weld or glue, easy to install



**Safe And Firm**  
Rugged, flame-retardant, shock-resistant, strong



**Fast Maintenance**  
Quick-change connector, easy to disassemble and easy to maintain



**Extremely Difficult To Leak**  
Adopt O-shaped sealing ring, best sealing, hard to leak



**Energy Saving And Environmental Protection**  
Smooth interior, high flow, low pressure drop, low friction



**Long Life**  
Pipe life is longer than buildings, up to 70 years

FSTpipe adopts new stainless steel 304, 316L and other pipes, which have a long service life and long-lasting quality. As the standardized pipeline of industrial compressed air system, it is the development trend of pipeline system in the future. Stainless steel can be recycled and reused, and it also conforms to the energy-saving and environmental protection concept advocated by the country. It is not only suitable for compressed air pipeline systems, but also meets the quality requirements of most pipeline systems.

## COMPREHENSIVE COMPARISON WITH TRADITIONAL PIPELINES

Item	FSTpipe SS Pipe	Stainless Steel Pipe (welded)	Galvanized Pipe	Carbon Steel Pipe
Service life (years)	> 70	50	15	10
Compressive strength (MPa)	≥ 520	≥ 520	≥ 294	≥ 355
Thermal expansion coefficient	17.3	17.3	11.6	11.4
Withstand voltage rating	1.6MPa	1.6MPa	low	high
Internal finish of pipe diameter	Excellent	good	poor	good
Corrosion resistance	Excellent	good	poor	good
Effective pipe diameter	Big	Big	small	in
Initial pressure drop	Very low	high	high	high
Exterior	Long-term bright	Rust on the weld	Easy to rust	Easy to rust
Leakage	No	5%	Over 8%	15% or more
installation fee	Low	high	high	high
Ease of installation	Convenient	Fudong	complex	complex
Operating expenses	Very low	low	high	Very high
installation time	Fast	very slow	General	slow
Whether there is particulate dust precipitation (in a long period)	No	No	Small amount of oxide residue	Large amount of corrosive residue

## FSTPIPE STAINLESS STEEL PIPE PRODUCT ADVANTAGES

FST pipe stainless steel pipe realizes universal use in the low pressure field with its excellent comprehensive performance. In our daily production and life, the pressure pipes involved mainly include stainless steel pipes, copper pipes, carbon steel pipes and PPR pipes.

### FSTpipe Stainless Steel Pipe

- ① Recognized as the most healthy and environmentally friendly material, without bacteria and carcinogens.
- ② The material has high strength, superior corrosion resistance and good heat preservation performance.
- ③ The connection is safe and reliable, with high strength and strong shock resistance.
- ④ Using double-clamping and full-clamping quick-insertion pipe fittings, no welding or gluing is required, quick installation and high efficiency.
- ⑤ Meet the requirements of embedded installation in concealed projects.
- ⑥ The service life is more than 70 years, and there is almost no need to maintain and update the stainless steel pipe during the service life of the building.



### Plastic Pipe

Because plastic pipes (PPR pipes) have the advantages of light weight, corrosion resistance, low internal fluid resistance, simple and rapid installation, and low engineering costs, they have been widely used at home and abroad. However, plastic pipes are not pressure-resistant, heat-resistant, or fire-resistant, and will produce toxic gas when burned. It is difficult to use under conditions of high heat, high pressure and near fire. In addition, the plastic pipe is easy to expand, and the safety hazard is very large. Its strength, linearity and temperature difference conditions in extreme regions all restrict its scope of application.



### Carbon Steel Pipe

Corrosion occurs after carbon steel pipes are used for a period of time. Because when carbon steel pipes are used as compressed air pipes, the oxygen and water vapor in the air will directly oxidize the iron in the carbon steel pipes. Leaving the carbon steel pipe in the air for a long time will eventually cause internal rust and even rot and perforation. Therefore, using carbon steel pipes as air pipes will not only cause leakage and serious waste, but also have a great impact on air quality.



### Copper Pipe

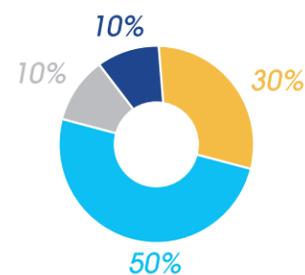
Copper pipes will produce verdigris under the oxidation of carbon dioxide, water vapor, and oxygen. The patina is toxic and cannot be used in industries such as food and medicine that require high compressed air quality. Copper pipes require high welding skills and have great expansion force. In addition, copper pipes are heavy in weight, require strong support, and are slow to install. They cannot be reused, and their prices are too expensive, and maintenance costs are high. There is no advantage in cost performance.



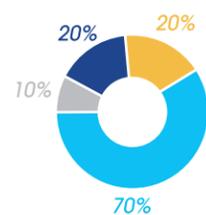
## VARIOUS PIPING SYSTEMS COMPREHENSIVE COST ANALYSIS

- Initial investment cost
- Energy costs caused by pressure drop
- Life weighted cost
- Installation and maintenance labor costs

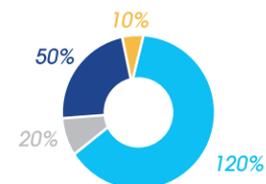
FSTpipe Stainless Steel pipe



Traditional Galvanized Steel Pipe



Plastic Pipe



## INSTALLATION GUIDE

### DOUBLE COMPRESSION PIPE FITTINGS INSTALLATION



**① Pipe cutting:**  
Cut the pipe according to the design drawings or the actual needs of the site.



**② Deburring:**  
After the pipe is cut, use a burr to remove the burr on the pipe port, otherwise the burr will scratch the sealing ring.



**③ Check the sealing ring:**  
Before installation, check whether the internal sealing ring of the pipe is displaced or falls off.



**④ Supporting illustration line:**  
Before installation, insert the burr-free pipe into the inspected pipe fitting, insert the pipe to the end, and draw a line on the edge of the pipe, and compare after pulling it out to see if the socket is in place.



**⑤ Clamping operation:**  
After receiving the illustration line, install the clamping with professional tools.



**⑥ Inspection:**  
After the compression is completed, check whether the finished product is abnormal. Such as: excessive displacement, small ears, etc.

### CLAMP PIPE FITTINGS INSTALLATION



**① Deburring:**  
After the pipe is cut, use a deburring device to remove the burr from the mouth of the pipe, otherwise the burr will scratch the sealing ring;



**② Sealing ring assembly:**  
first put the sealing ring on the end of the pipe, so that the sealing ring is completely inserted into the gap between the two pipe ends.



**③ Check the sealing ring:**  
Before installing the accessories, check whether the internal sealing ring of the pipe is displaced or damaged.



**④ Pre-assembly of accessories:**  
Fasteners are manually installed to achieve simple screw fastening.



**⑤ Fastening of accessories:**  
Tighten the upper and lower clamp screws with corresponding tools, and the upper and lower clamps can be closed seamlessly.

## MARKET APPLICATION

In the entire high-speed industrialized society, the requirements for high-quality compressed gas are getting higher and higher. Traditional industrial pipes can no longer meet the needs of customers for compressed gas transportation.

Our super pipes are all in terms of materials, design, installation, etc. It can help customers solve their worries in the gas transportation process; the super pipe series designed and developed by FSTpipe Company plays an active role in the entire industrial automation process.

FSTpipe committed to improving customers to reduce unnecessary energy consumption and waste in the gas transportation process, providing High-quality gas quality, reduce leakage and pressure drop; ensure safe, stable, high-quality clean air delivery to the end of use.

the product integrates simple structure, easy installation, energy saving, environmental protection, safety and reliability, and the product design and quality have been It is above the global peer level; component specifications (including installation of fixed components) are more comprehensive, which can meet the needs of different customers.

the FSTpipe has a strong technical research and development team and core technology, adheres to the road of independent research and development, and continues to deliver value to customers.



ELECTRONICS INDUSTRY



BUILDING HOTEL INDUSTRY



AIRPORT & SCHOOL



PHARMACEUTICAL INDUSTRY



FOOD AND BEVERAGE INDUSTRY



EXHIBITION CENTER



AEROSPACE INDUSTRY



COMMUNITY HOUSIN



## CLIENTS & PARTNERS



## AFTER-SALES SERVICE

PROVIDE THE BEST SOLUTIONS

### Tailored For Customers

FSTpipe a professional design team to provide accurate service to customers, and to design the optimal pipe network scheme for customers' factories, so that customers can feel at ease.

### Pursue Excellent Quality

All FSTpipe products are forged with high-quality materials and production technology which ensures their high reliability and excellent performance, building you high quality the pipe network transportation system.

### Perfect After-sales Service

FSTpipe ensures customers for quick and efficient pipe adjustment or adding, provides pipeline after-sales maintenance and testing, and enable customers to enjoy the high value-added services.

### Professional And Quick Installation

FSTpipe skilled installation group will support you efficiently and quickly, contributing to your production plan.