



# FST AIR WORKS

PRESSURE THAT VALUES YOUR PLEASURE



**PROFESSIONAL SUPPLIER OF COMPREHENSIVE PLAN  
FOR THE COMPRESSED AIR PIPE SYSTEM**

**SAFE QUICK SAVING PURE**

We are professionally managed organization with the high quality of Hydraulic & Pneumatic products manufacturing and assembly. We are specialized in executions of engineering piping projects on a turnkey basis. We have well equipped in-house design and engineering team to handle in time customer commitment. We maintain a large warehouse to cater customer demand and ensure quick delivery. Flowlines has well established marketing network in INDIA with residential engineers and branch office in major cities.

FSTpipe always pays attention to the core needs of customers, to improve their productivity and profitability to reduce users' production energy consumption. The FSTpipe compressed air pipe system is widely used in aero space 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.

## FULL PERFORMANCE PIPING SYSTEM SOLUTION

FSTpipe's full-performance compressed air pipeline system solution can be fully communicated according to the customer's production environment and actual situation and the design of the circular simulation pipeline installation. We can provide detailed pipe network structure and calculate the pressure drop in the system

Through the simulation design, the design scheme can be flexibly adjusted, modified and verified, and all the required Foster full performance piping system accessories are listed, and the project quotation and installation time are calculated.



## TECHNICAL SPECIFICATION

# FST pipe

## Aluminum Pipe (3 M/6M)

DN20	DN25	DN32	DN42	DN50	DN65	DN80	DN100
•	•	•	•	•	•	•	•

DN125	DN150	DN200
•	•	•

FST pipe Pipe Fittings	DN20 3/4"	DN25 1"	DN32 1 1/4"	DN42 1 1/2"	DN50 2"	DN65 2 1/2"	DN80 3"	DN100 4"	DN125 5"	DN150 6"	DN200 8"
Pipe to pipe connector	•	•	•	•	•	•	•	•	•	•	•
Reducing connector		•	•	•	•	•	•	•	•	•	•
90° Elbow	•	•	•	•	•	•	•	•	•	•	•
Equal tee	•	•	•	•	•	•	•	•	•	•	•
Reducing tee		•	•	•	•	•	•	•	•	•	•
Quick drop		•	•	•	•	•	•	•	•	•	•
Female thread quick drop		•	•	•	•	•	•	•	•	•	•
Ball valve	•	•	•	•	•	•	•	•	•	•	•
End cap	•	•	•	•	•	•	•	•	•	•	•
Flange					•	•	•	•	•	•	•

## RIGHT PIPE DIAMETER MAKES THE BEST TRANSMISSION EFFICIENCY OF PIPEWORK

In order to ensure the smallest pressure drop, FSTpipe offers various specifications of pipes and fitting.



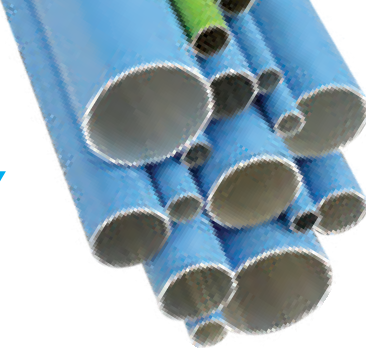
## FSTPIPE TECHNICAL DATA

- Ambient temperature : -29°C -+ 80°C
- Maximum working pressure : 16 bar
- Vacuum : 0.013bar absolute pressure (compatible with all compressor oils)
- GB/T4437.1-2015
- FSTpipe series obtained TS certification
- All threaded joints are BSP

Suitable for out door installation : FST pipe series are fire-resistant (in line with UL-90-VO standard) seamless extruded aluminum pipe



## ALUMINUM ALLOY CHARATERS



### Ten-year Warranty

Various vulnerable sealing elements are available for free

### Energy-saving

No maintenance and reusual for system moving. Smooth inner surface for lower pressure drops and energy saving.

### Full adaptable

The components can be dismantled and expanded arbitrarily, and the components can be reused.

### Perfect Compatibility

Universal used in each brand air compressor and post-processing equipment and pneumatic supporting.

### Suitable for almost harsh environments

Excellent resistance for the following environment : corrosion, harsh environment, mechanical vibration, thermal change environment, ultraviolet light, the environment containing compressor oil.

### Safe

Strong and durable, not easy to burn materials and components have extremely high pressure resistance.

### Easy install and time saving

Pipe and connectors can be installed immediately without additional treatment. No prior construction preparation is required.

Fast equipment, no welding, bonding or hanging, time-saving : easy to assemble, no in-depth training: Light weight, easy to cut pipe is easier to work on site; directly enabled, the system can be tasted and used immediately.



## BRAND ADVANTAGES



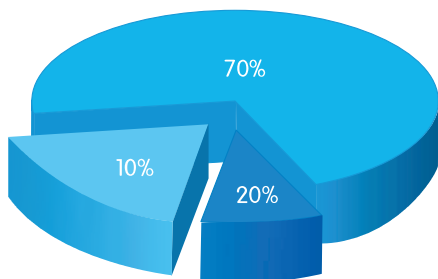
## FST PIPE COMPARE WITH TRADITION PIPES

	Carbon Steel Pipe	Carbon Steel Pipe	FST pipe Aluminum pipe
Installation duration	Long	Long	Fast (no welding, 85% faster than traditional piping)
Modification	Difficult	Difficult	Easy-Modular design
Change time	Long	Long	Short (10 mins only for adding a dropline)
Internal roughness	1.9um	1 um	0.2-0.4um (extrusion, smooth inner wall)
Pressure loss	high	A bit high	Low (low roughness & pressure loss)
Leakage	5%-20%	0%	0% (O-ring sealing)
Corrosion after prolonged use	serious	A little	None-Corrosion-proof treatment
Impact on the quality of compressed air	serious	A little	No damage (no damage to air service equipment)
Initial investment cost	low	A bit high	Middle
operating cost	Very high	high	Low

## ENERGY COSTS CAUSED BY PIPELINE PRESSURE DROP

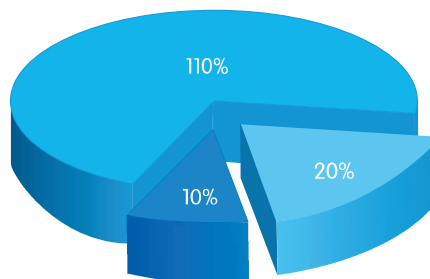
Energy costs caused by pipeline pressure drop

FST pipe Super Pipe



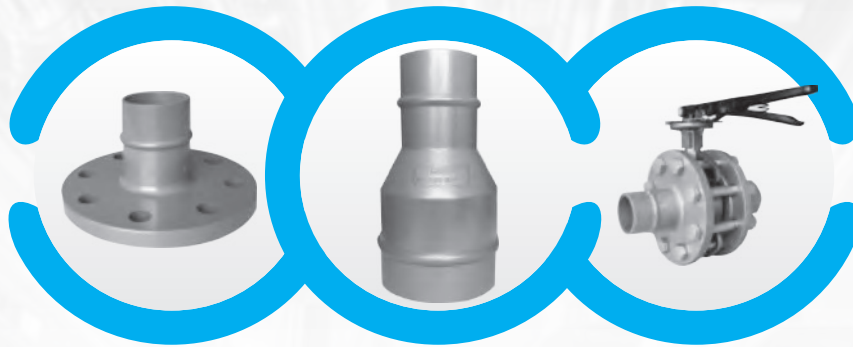
- Power Consumption 70%
- Initial investment 20%
- Installation and operation cost 10%

Other Traditional Pipe



- Power Consumption 110%
- initial investment 10%
- installation and operation cost 20%

## EASY INSTALLATION FAST AND CONVENIENT



Foster's product installation design  
saves 60% of installation time



1

The quick and easy installation method benefits from the FST product installation design, which makes the installation of the piping system no longer time-consuming: it can save you up to 60% of the installation time

2

Quick installation no welding, and short time

3

No in-depth training is required to complete the assembly quickly.

4

All pipe fittings and joints can be flexibly adjusted, detachable and reused, ensuring the scalability of the network management system.

5

Diversion devices and branch pipelines can be added at any time to facilitate production adjustment of the production line.

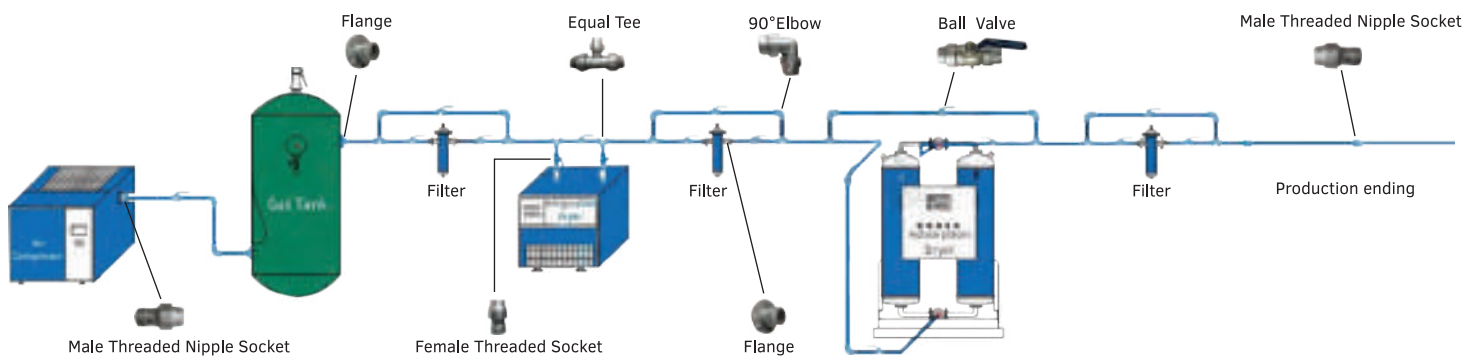
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The connection design of the lowering side effectively eliminates the phenomenon of pipeline condensate pollution.

## APPLICATION

### Applicable Field

In the rapidly developed industrial society, the traditional industrial pipeline has been unable to meet the higher requirements of customers on compressed gas, the emergence of the super pipeline regardless of material selection, design, installation and other aspects can help customers solve worries. At present, the super pipeline designed and developed by foster is playing an active role in the whole process of industrial automation. We are committed to reducing unnecessary energy consumption and waste in gas transportation, improving gas quality and ensuring safe, stable and high-quality clean air transportation to the user end. Our products are simple in structure, easy to install, energy saving and environmental protection, safe and reliable in one, the quality of products has been leading the international peer level. Component specifications are comprehensive, can meet the needs of different users. The company has a strong technical team and independent core technology, adhere to the road of independent research and development, continue to create and deliver value for customers.



- Electronic Appliance
- Automobile Manufacturing
- Textile
- Food and Beverage
- Tobacco Manufacturing
- Furniture Manufacturing
- New Energy
- Printing and Paper-making
- Clothing Manufacturing
- Medical Treatment
- Military Manufacturing
- Machinery Manufacturing



# INDUSTRIAL PIPING SYSTEM

## TIPS FOR USING



## COMPRESSOR AIR SYSTEM MORE EFFICIENCY



Fix existing leaks, prevent new leaks



Run at the required pressure, not beyond



Review piping infrastructure



Emphasize proper maintenance



Eliminate inappropriate uses of Compressed Air