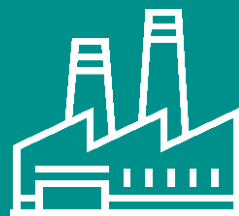
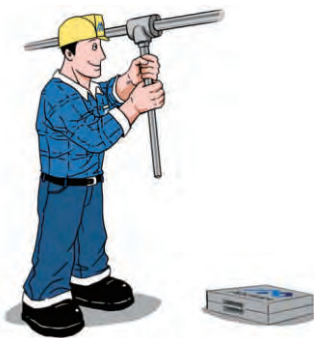


# INDUSTRIAL & COMMERCIAL APPLICATIONS



## ENGINEERED FOR SUPERIOR PERFORMANCE

Stainless Steel Piping Systems Installation References



# WHY USE AQUApipes

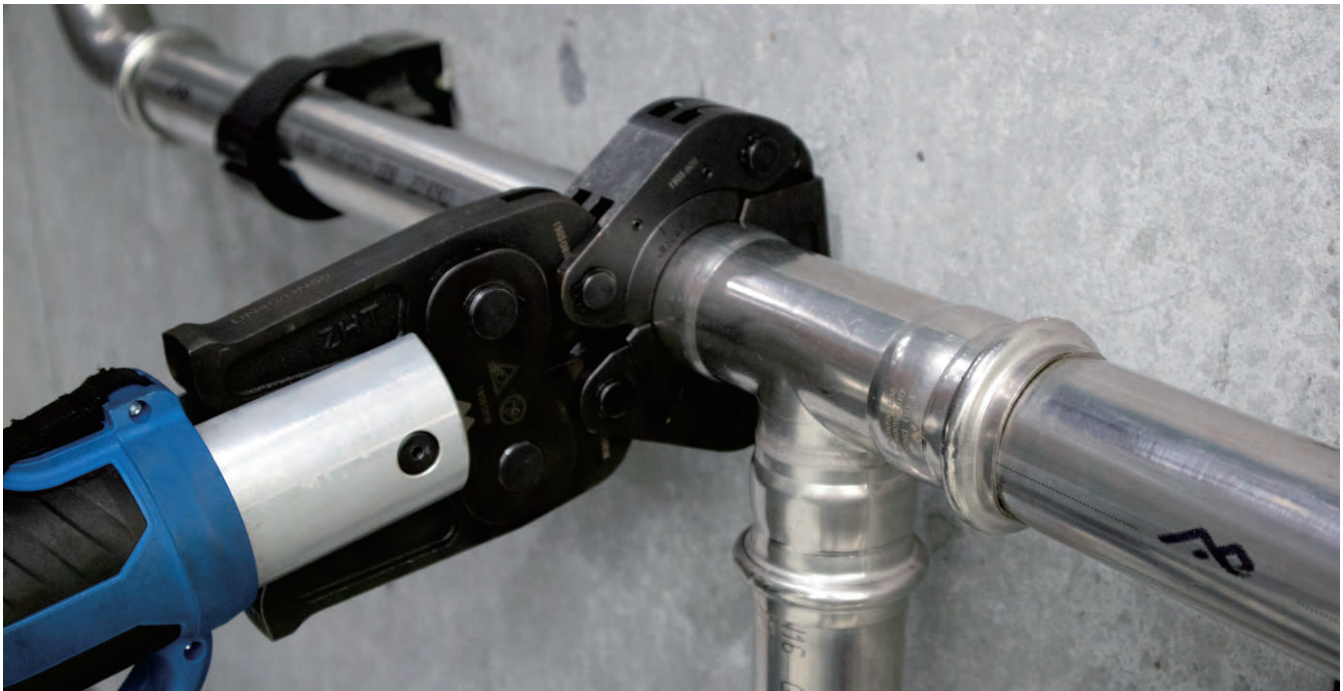
As a part of AIRpipe corporation, AQUApipes is a complete stainless steel piping system for liquid and gas conveyance in a wide range of applications.



Our company has operated for over 25 years within the piping industry. During this time we have become a global leader in innovative design and manufacturing.

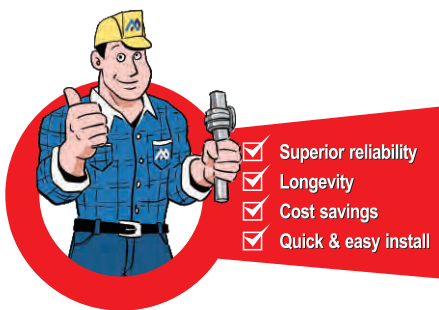
AQUApipes is a quick, clean, and simple system to install. The technology has evolved the piping industry and offers considerable savings.

AQUApipes is a product brand within the AIRpipe Group. We're committed to total system solutions. Our services unit is available to assist with application questions, system design, take-offs, and training within the liquid and compressed gas piping industry.



## Applications

AQUApipes is designed to convey fluids and gases used in a **variety of applications** including:



- Chilled/Cooling Water
- Process Water
- Drinking Water (NSF-61&372)
- Compressed Air and Inert Gases
- Gas Supply
- Hot Water
- Low-Pressure Steam (1bar/16psi max)
- Vacuum
- Hydraulic Oils
- Waste Water
- Solar water



# CUSTOMER BENEFITS



The most economical stainless steel pipe and fitting system from DN15 to DN250.



AQUApipe is a proven technology designed with a simple and robust connection for long-term system reliability.



AQUApipe is a flameless and clean system that greatly shortens repair and installation times, resulting in a +50% reduction to traditional installed costs.



Seal and material options allow for the conveyance of nearly any liquid or gas.



AQUApipe press fittings don't require expensive tooling and can be installed in under 1 minute.

**SUPERIOR  
PERFORMANCE**



## Certifications

- ◆ Designed and manufactured in adherence to international standards for purity and pressure longevity;
- ◆ Material samples undergo scheduled testing to maintain quality;
- ◆ Certifications are available for your domestic installations.

ISO 9001 version 2015  
ISO 14001 version 2015  
ISO 45001 version 2018  
NSF-61&372, ASME, UL, TUV, CE, EN , TS

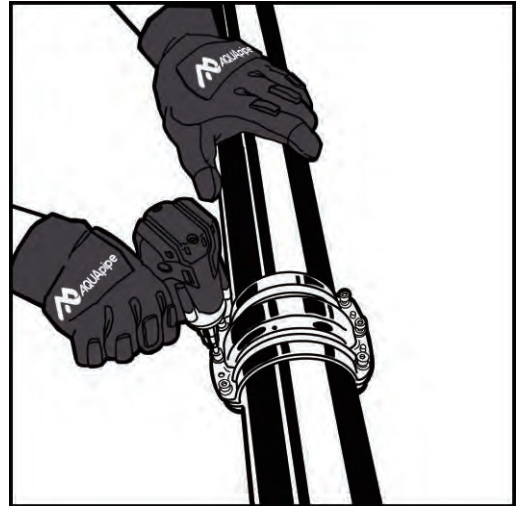


# TECHNOLOGY

## ▶ Clamp Connection

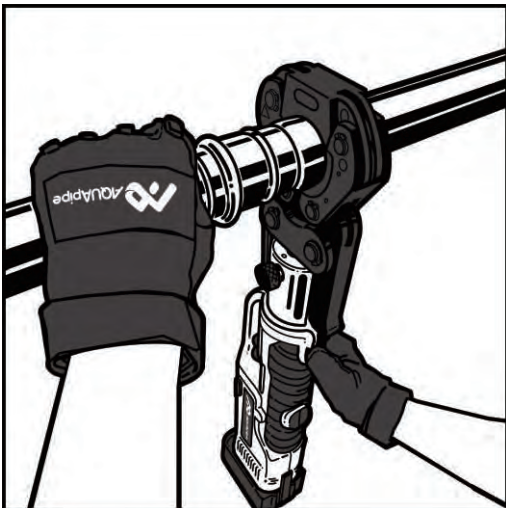


DN125 to DN250  
5" to 10"



- ◆ Clamshell union connector, quick install & re-assembly.
- ◆ Convex ring, allowing for a full-bore inner diameter.
- ◆ Active concentric sealing for a leak free connection.
- ◆ Superior reliability & longevity.

DN15 to DN100  
½" to 4"



## ▶ Press Connection


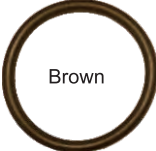



- ◆ Built-in sealing, options for gases and liquids.
- ◆ Extended fitting sleeve to keep pipe straight.
- ◆ Quick-press installation to reduce labor.
- ◆ Superior reliability & longevity.



# SEAL OPTIONS

Due to the wide applications of stainless steel pipelines, we are equipped with different materials of sealing rings to ensure the superior performance of the AQUApipe system.

Sealing	Description	Color	Working Temperature	Main Applicable Medium
<b>EPDM</b>	Ethylene Propylene Diene Monomer	 Black	-20°C to 120°C -4°F to 248°F	Chilled/Cooling Water; Waste Waters; Hydronic Heating; Low Pressue Steam; Drinking Water.
<b>FKM</b>	Viton Fluoroelastomer	 Brown	-20°C to 200°C -4°F to 392°F	High Temp. Steam & Gas, Solar, Heating, Compressed Air, Acid Solutions, Chemicals, Inert Gases.
<b>NBR</b>	Nitrile Butadiene Rubber	 Yellow	-20°C to 100°C -4°F to 212°F	Hydraulic Oils, Inert Gases, Compressed Air, Lubricants.

- **EPDM** – Operating temperature -20°C to +120°C (-4°F to 250°F). EPDM, or ethylene-propylenediene rubber, is a synthetically manufactured and peroxidically cured all-purpose elastomer. EPDM sealing elements possess excellent resistance to aging, sunlight, weathering, ozone, environmental influences, alkalis, and most alkaline solutions along with chemicals used in a broad range of applications including ketones.
- **FKM/ FPM** – Operating temperature -20°C to +200°C (-4°F to 392°F). FKM or FPM also known as Viton, is a fluoroelastomer, or synthetic fluorinated rubber specialty purpose elastomer. FKM/ FPM sealing elements possess excellent resistance to chemicals, higher temperatures, sunlight, weathering, ozone, environmental influences, oils, and petroleum-based additives. FKM/ FPM's resistance to higher temperatures and aggressive chemicals make it ideal for extreme industrial applications.
- **NBR** – Operating temperature -20°C to +100°C (-4°F to 212°F). NBR also known as Nitrile, is Nitrile Butadiene Rubber, a specialty purpose compound used where resistance to petroleum-based additives are required. NBR possess excellent physical strength and retention properties after long term exposure to heat, oil, chemicals, and compressed air. NBR is used for applications of compressed air, mixed, and manufactured gases. NBR's versatility has resulted in wide use in automotive, industrial, and assorted high-performance applications.

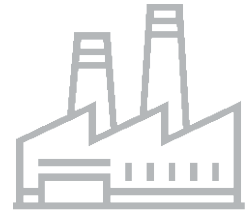


**INDUSTRIAL  
SOLUTIONS**





# INDUSTRIAL APPLICATIONS



**AQUApipe stainless steel piping systems are widely used in industrial fields, such as automobiles, electronics, chemicals, food & beverages, machinery, logistics, aerospace, rail transit, etc. They are mainly used to transport water (cold & hot water, circulating water, industrial wastewater, etc.), gases (compressed air, vacuum, inert gas, etc.), oil (industrial oil, lubricant, etc.), and other fluids.**

The safe, convenient and reliable installation method of AQUApipe can effectively shorten the installation time, minimize the time of industrial enterprises due to pipeline installation, and make the subsequent system maintenance and repair more convenient. We have very strict standards for our products, seal rings of three different materials can be selected according to the needs of different fluids in the industrial field to achieve the best cost performance and the longest service life.



Industrial enterprises usually have a large demand for stainless steel piping systems. The traditional installation method not only requires professional installation labor, but also consumes a lot of manual installation time. The AQUApipe press and clamp connection technology can be installed after a short training and ensure the reliability and stability of pipeline connections.

The AQUApipe piping system (pipes, fittings, sealing rings) passes TUV testing twice a year. Industrial fluids with higher requirements for the pipeline pressure system can be used with confidence, without worrying about the loss caused by pressure problems.

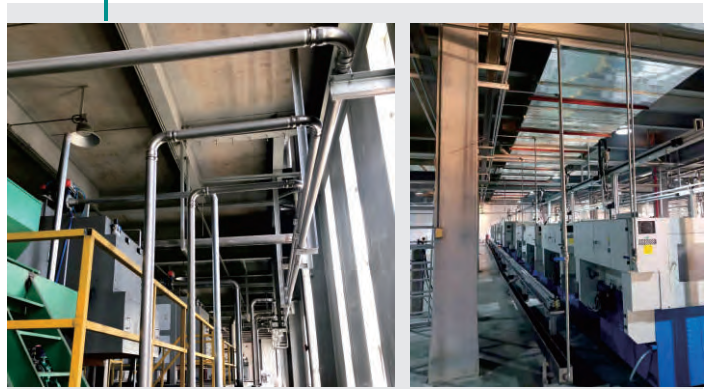
For large industrial enterprises where greater demand requires larger pipeline diameters, AQUApipe systems range up to DN250 (10"). AQUApipe can be used as main lines or branches to meet demand needs.



# CASE STUDIES



AQUApipe DN20-DN250 delivers grinding oil and super essential oil, which are used for cleaning in bearing production. Due to the aging of general seals when encountering oil, customers choose our NBR seals, which have a long service life.



A manufacturer of diabetes care products in the medical industry, AQUApipe DN25-DN125 applied for circulating water system, which is used for injection molding machine, mold workshops, air compressor and air dryers. Customer requires clean and leak-free pipelines..



An auto parts enterprise that provides many well-known auto brands with interior & exterior trim parts, body metal parts, auto electronics, etc. AQUApipe DN25-DN125 transports circulating water for its' production workshops and injection molding machine workshops. Our pipelines are free of corrosion and solve the rust prevention problems of the customer.



The production base of infant milk powder, DN20-DN100 stainless steel pipes applied to oil-free compressed air. The compressed air is in direct contact with food. The food-grade FDA certification of AQUApipe ensures the cleanliness of the air.





AQUApipe provided a cooling water system solution for a manufacturer of rigid conduit made of steel, PVC and aluminum. The quality of AQUApipe, availability, and high level of customer service are all reasons for choosing AQUApipe.



A manufacturer of vehicle internal combustion engine and hybrid system castings, DN15-DN250 AQUApipe delivers cooling water, cutting oil, and compressed air. This is a traditional pipeline renovation project to improve the customer's quality of water, oil and gas, so as to facilitate the customer to make standardized changes and adjust the pipeline layout in the process of use.



A manufacturer of household kitchen appliances, producing cookware, small household applications, etc. AQUApipe DN20-DN100 is used for water circulation systems for equipment.



AQUApipe DN25-DN125 applied for tobacco industry cooling water system, such as tobacco wire production line circulating cooling water, cigarette machine cooling system, etc.



# CASE STUDIES



AQUApipe DN20-DN150 transports compressed air, circulating water, and ultra-essential oil for the production workshops, equipment and product cleaning. Ultra-essential oil is transported and recycled through pipelines. Customer has high requirements for the pipeline, so they use our products for all three media conveyance.



An independent R&D and manufacturer of aero engines and gas turbines. AQUApipe is used in process cooling water for indirect cooling of key equipment.



The world's top scientific R&D team, with research on flexible organic electronic materials and flexible Nanoelectronic materials & devices. AQUApipe DN15-DN50 is applied to water and compressed air, its clean pipeline system is recognized by customers for clean room production equipment.



AQUApipe DN15-DN150 transports circulating water, pure water, and production wastewater. The customer is specialized in manufacturing ultra-high purity metal materials and sputtering targets for the semiconductor and integrated circuit industries. The product involves water cleaning. Our pipelines are clean, artistic, and reasonable in cost, which solves the needs of the customer in many aspects.







A project with an investment of more than € 50 million, its products will be supplied to breweries and soft drinks manufacturers. AQUApipes DN20-DN250 applied to process water, die coolant and oil. Rely on professional installation team, quick deliveries from our local warehouses, AQUApipes helped this project to solve its diverse fluid transmission requirements, and completed the installation in a timely and effective manner.



This is a throat pharmaceutical manufacturer established in 1994. Due to its clean workshops and the product has high requirements for the cleanliness of compressed air, the customer was equipped with a water-cooled oil-free air compressor. Our product has well solved the needs of the customer, AQUApipes DN20-DN125 applied to compressed air.



AQUApipes DN20-DN100 applied to compressed air of a photovoltaic industry manufacturer which produces optical fiber preforms and optical fibers. The equipment of this compressor station is oil-free and micro-oil air compressor. Our pipeline system delivers clean air at the source to avoid secondary pollution.





COMMERCIAL  
SOLUTIONS





# COMMERCIAL APPLICATIONS

Today, people pay more attention to health and safety, stainless steel pipeline systems are increasingly used in urban construction and civil fields, such as schools, hotels, hospitals, firefighting, water affairs, commercial buildings, communities, urban subways, etc., mainly for drinking water, gas, solar water, city use water.



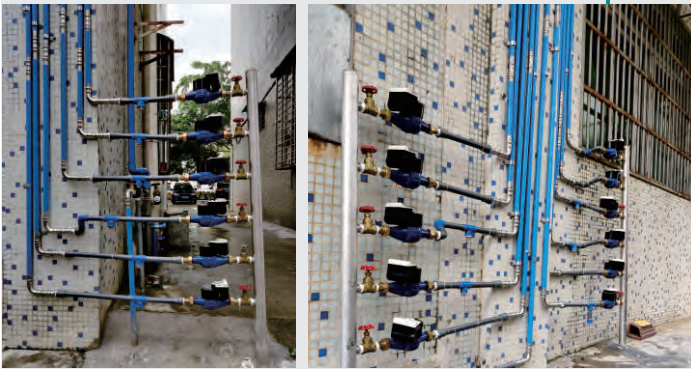
The AQUApipe piping system can supply two kinds of stainless steel materials, 304 and 316, which with NSF certification, and it can be completely trusted for applications with high cleanliness requirements, such as drinking water, medical treatment, food, and civil water, etc. There is no need to worry about fluid pollution caused by pipeline delivery problems and affecting the use.



For complex installation environments, AQUApipe adopts press connections and clamp connections, the convenient connection methods and flexible operation installation tools can adapt to installation in various situations, such as high altitude, outside, pump room, wells installations, etc.

Through continuous practice and accumulation of experience, we focus on product R&D and innovation, improve performance and efficiency, and reduce customers' comprehensive costs. We are perpetually innovating and submitting patents. For the applications of commercial & civil field, AQUApipe can provide the right product for an extreme situation.

# CASE STUDIES



Due to the long service time of PPR pipe used in the initial stage of the community construction, the aging of the pipe led to leakage in many places and wasted water resources, microbe of the inner wall is serious, which endangers the health of residents. AQUApipe stainless steel pipeline is used for transformation to optimize the pipeline route and ensure healthy water for residents.



AQUApipe DN15-DN200 is used in the pump room, hot and cold water pipelines, indoor water supply of high-end commercial office buildings. The flexible installation mode of press & clamping connection, and high standard product inspection procedures, meet the requirements of customers on pipeline corrosion resistance and cleanliness.



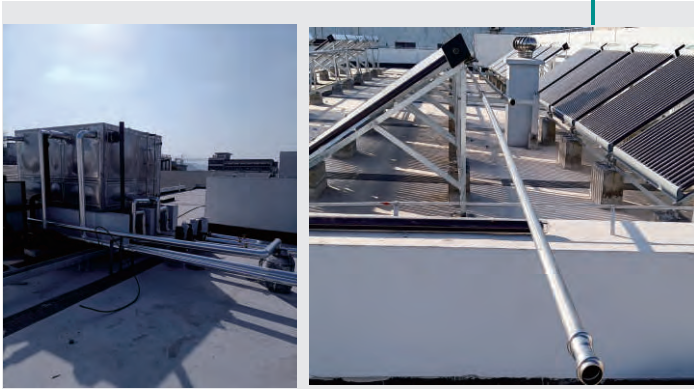
The application of AQUApipe DN20-DN200 in urban water system, AQUApipe transport tap water for urban and residential water. It has a long service life, no corrosion, no leakage, reliable connection, effective protection and utilization of water resources, healthy and environmental friendly.



This is a tap water pipeline project in a new residential district, pipe system: DN32-DN150. The customer chooses AQUApipe for the following reasons: strong pipeline pressure, meets its requirements; artistic; flexible connection mode, which can be quickly installed and disassembled; strong sealing performance, without any leakage.



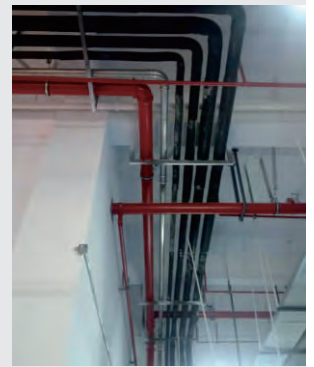




This is a solar water supply project for the kindergarten. AQUApipe connects the solar system on the roof and the hot water pipeline in the living area, which is directly used by the user. For the hot water pipeline of the outside, we have done thermal insulation and protection treatment to ensure a longer service life.



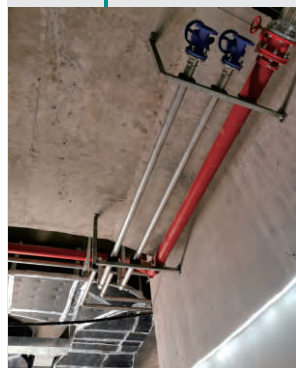
AQUApipe DN15-DN100 transport tap water and hot water for a high-end international school. From the pump room to use terminal, it is used for school daily life, accommodation, swimming pool, etc. The hot water pipeline is protected with black insulation cotton. The clean pipeline has been recognized by customers.



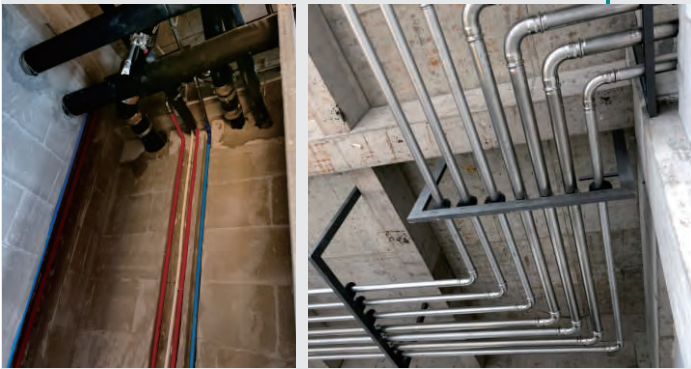
AQUApipe is used in a new residential district for direct drinking water projects. Compared with daily tap water, there is purification equipment in the pump room for direct drinking water, which requires high cleanliness and must be food-grade pipe delivery. The FDA certification of AQUApipe is the basis for customers' choice.



AQUApipe DN20-DN250 is applied to the water system of the subway station, to transport cooling water, domestic hot & cold water, and air conditioning water system. The pipeline application and layout of this project are diversified, we provide the customer with multiple connection ways to meet their needs.



# CASE STUDIES



The hot and cold water transportation project for a high-end hotel, with a total construction area of 70,000 square meters, pipeline system: AQUApipe DN15-DN100. And they are satisfied with the artistic and cleanliness of the pipeline.



This is a large hospital hot water supply project. AQUApipe DN15-DN100 delivers hot water from solar water heater to the boiler room, secondary heating, and delivery to the shower room of each ward or bathroom. The requirements for pipeline: long service life, no leakage, flexible connection, etc. Our products have been highly recognized by customer.



AQUApipe DN15-DN150 is applied in the hot water systems of a fire station, and used for their daily life water. The customer requires that the pipeline has sufficient pressure, and the exterior has good heat preservation treatment, we handled it well.



AQUApipe DN20-DN100 applied in the hotel hot water system of the Cultural Industry Park. This hotel has 20 floors above ground and 3 floors underground, a total about 80 meters, it required the pipeline has at least 8kg pressure, and AQUApipe's pressure is 16kg, which is more than enough. And the customer is very satisfied with the insulation treatment of our pipes.





# MULTIPLE SOLUTIONS



As We focus on solving the problem of full fluid delivery systems for customers. In addition to stainless steel piping systems-AQUApipe, our aluminum piping systems-AIRpipe have always been in the lead application of the industry. We can provide you with a one-stop comprehensive solution for multiple fluid solutions.



A food packaging enterprise, blue AIRpipe DN20-DN200 for compressed air, gray AIRpipe DN40-DN200 for vacuum. AQUApipe with EPDM seal DN20-DN150 for process water/ hot water/ cooling water, AQUApipe with FKM seal DN25-DN100 for die coolant/ oil.



A world leading video-centric smart IoT solution and service provider. AQUApipe DN20-DN200 for cooling water in production line and circulating water in compressor room, AIRpipe DN20-DN125 for compressed air.

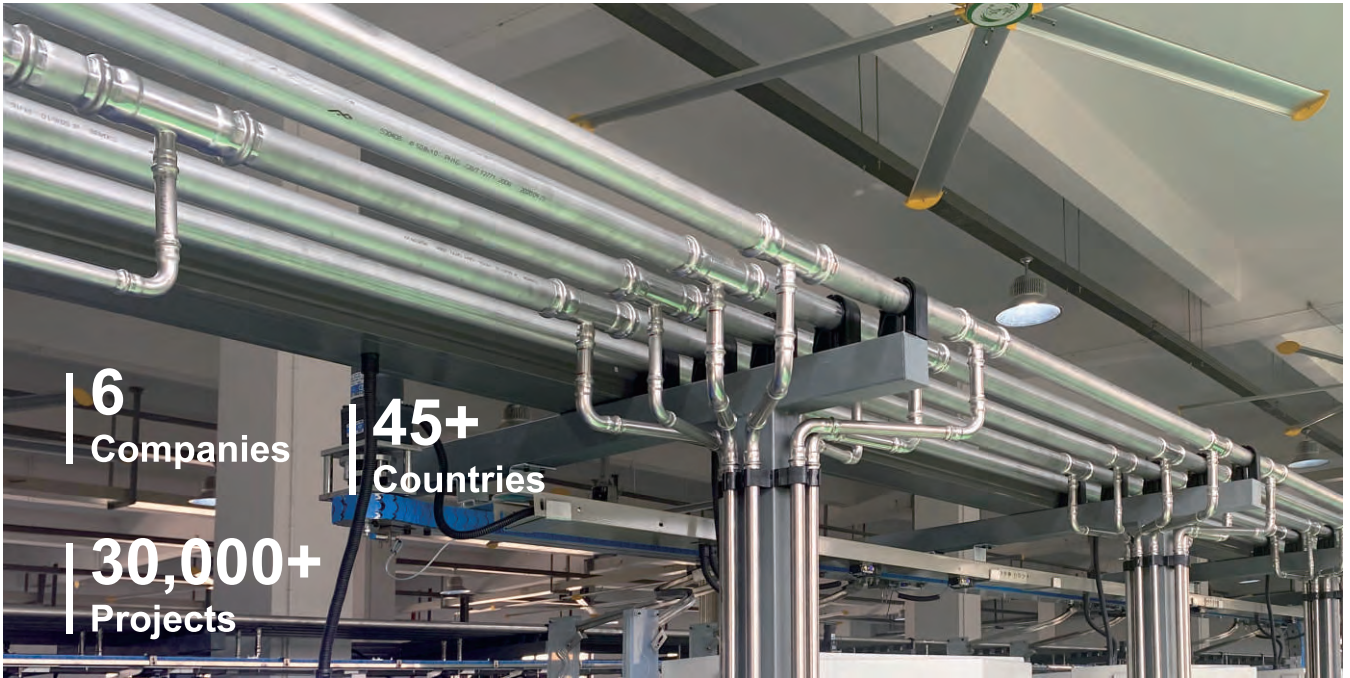


A company specializing in the production air conditioning refrigeration equipment, blue AIRpipe DN25-DN80 for compressed air, AQUApipe DN25-DN50 for propane and oxygen.



This is a famous auto parts manufacturer, AQUApipe DN25-DN125 for circulating water in production line and injector workshop, blue AIRpipe DN25-DN63 for compressed air.

# ONE-STOP SERVICE



AIRpipe is providing experience for **“One-stop Service”** to worldwide customers, from first design of the pipe system to training and after service.



## **D** Design

AIRpipe’s experienced engineering and design department support customer requests to provide professional and accurate pipeline drawings and system quotes. These services greatly save time for customers and grant easy access to an engineering group focused on piping systems. We naturally supply our CAD drawings in 2D, 3D and BIM formats.

## **P** Products

AIRpipe products are manufactured in our facilities. We maintain a campus for manufacturing AQUApipe product lines, DN15-DN250. We are strong advocates for green manufacturing. We monitor and control emissions and power consumption, and our products are 100% recyclable.





## L Logistics

AIRpipe maintains large inventory volumes to meet global demand and ensure customers have quick access to our products. Regional warehouses in major countries means customers can receive products in few days. Our strong logistic relationships allow us to provide a host of shipping options to meet your preference.



## I Installation

The professional installation and training teams at our headquarters and branches are at your service. Contractors and end-users can provide installation guide, training, and on-site installation services.

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## 10 Year Warranty

**In correspondence with the high performance of AIRpipe products, we extend customers a 10-year quality guarantee. We will schedule customer visits, site maintenance, etc., to ensure our global customers have a premier experience.**

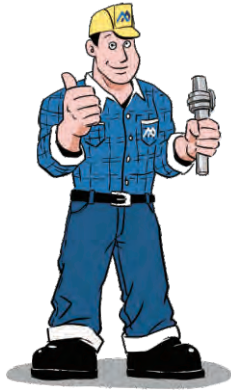


The AIRpipe Group warranties AQUApipe products to be free of defects in material for a period of ten years from the date of product purchase.

AQUApipe does not warrant the design, assembly or installation of the system, but only the components with an official AQUApipe logo. AQUApipe is not responsible for improper assembly, installation, or for any modifications of the product.

### **The warranty is void upon:**

1. Failure to follow assembly or installation guidelines;
2. Alteration, misuse or abuse of, or damage to the products;
3. Operation beyond the design range, excessive pressure, stress, or mishandling in any way;
4. Use other than for the intended purpose or in a manner other than specified by AIRpipe.



**We provide superior performing fluid systems with engineered longevity to reduce operating costs and improve productivity.**

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\* AQUApipe is a product brand in AIRpipe Group.

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