

YuGuard Flow

Advanced Flow Technology Solutions

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About Oriental Yuhong

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The Reliable and Integrated Fluid Control and
Distribution Solutions that Support City Development

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Earning Your Trust Through
Quality and Integrity

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Part One

Who We Are





YUHONG'S DIGEST



To be the most valuable global enterprise
in the construction materials industry

Founded in 1995, Oriental Yuhong, over the past 30 plus years, has been devoted to providing high-quality waterproofing system solutions for tens of thousands of major infrastructures and industrial, civil and commercial buildings. Having grown into a leading service provider in the construction and building materials industry.

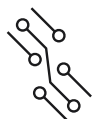
The company went public in 2008 and its operating revenue exceeded CNY 28.06 billion in 2024, 39 times that of 2008.

The products of company are exported to more than 100 countries and regions such as Germany, Brazil, Australia, America, Canada, Japan, Singapore, South Korea, Central Africa and South Africa.



About YuGuard

YuGuard Flow, a product line under the YuGuard sub-brand of Oriental Yuhong, delivers advanced flow technology solutions to municipal, residential, commercial, and industrial sectors for their pipeline and valve systems. Our product portfolio spans water supply, drainage, mining, power transmission, electrical conduit, air conditioning, and gas systems. Guided by the philosophy of “product-led, service-obsessed, and customer-focused,” we uphold Oriental Yuhong's mission to create safe and enduring environments. Our vision is to become the most valuable enterprise in the global flow industry.



Research &
Development



Applied
Technology



Production Process
and Equipment



Engineering
Technology

Group Figures



30

years in the
building materials



100+

subsidiaries
worldwide



68

production facilities, R&D
institutes and logistics
centers worldwide



300+

real estate developers,
corporate groups in stable
strategic cooperation



100+

countries and regions
where our products and
services exported to



1916

valid patents

Part Two

What We Offer





**Industry
Valves
System**



**Municipal
Piping
System**



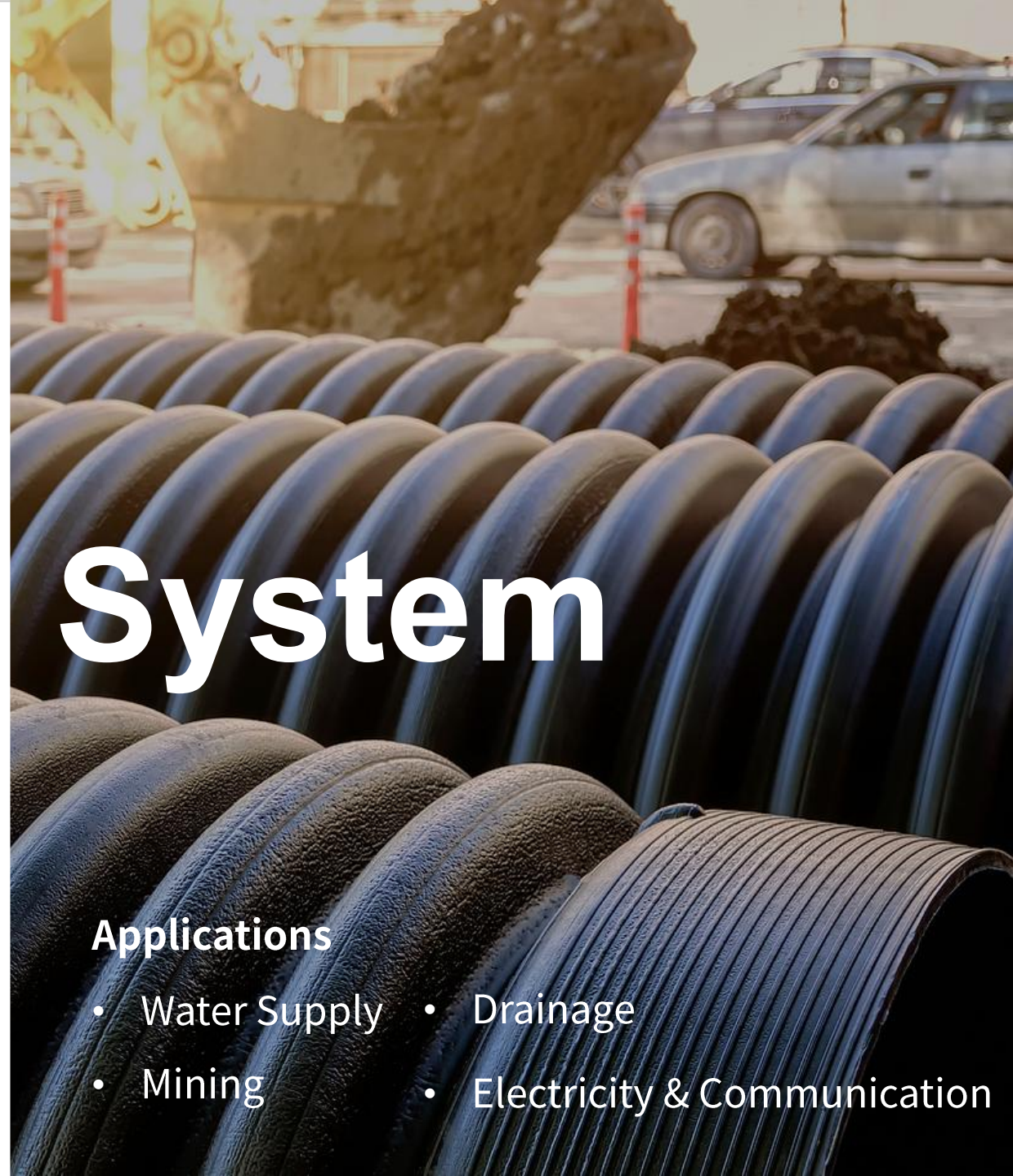
**Residential &
Commercial
Piping System**

Municipal Piping System



Applications

- Water Supply
- Drainage
- Mining
- Electricity & Communication



HDPE Water Supply Piping System

Specifications

- **Nominal Outer Diameter:** dn20~dn1200
- **Pipe Series:** 0.6MPa~1.6MPa
- **Straight Pipe Length:** 6m in general, coiled pipe length 50/100m in general, other lengths: customizable.
- **Standard:** ISO 4427 GB/T 13663.1-2017 GB/T 13663.2-2018 GB/T 13663.3-2018

Advantages

- **Premium & Hygienic Materials:** Premium PE100 new-gen Northern Star bimodal PE pipe material; compliant with ISO4427, GB/T 17219 & MOH hygiene/safety rules.
- **Corrosion-Resistant & Durable:** Resists acids, alkalis, soil microbes; 50-year service life.
- **Flexible & Impact-Resistant:** Fits complex terrains, strong earthquake resistance; lowers leakage risk.
- **Easy Construction, Stable Connection:** Homogeneous joints (hot-fusion/electro-fusion/butt-fusion); simple, safe & reliable.
- **Solid QC & Stable Production:** KraussMaffei/ Battenfeld lines; ISO 14001 & international QC; full-process control.



Applications



Municipal Water Supply

High pressure (PN0.6-1.6MPa), stable transmission; for urban main/community pipes.



Industrial Water Supply

Chemical-resistant; fits harsh scenes (chemical industry, park circulating water).



Marine Aquaculture

Superior salt/chlorine resistance vs. other plastic pipes.



Agricultural Irrigation

Good impact resistance, easy installation (cross-road feasible).

WATER SUPPLY

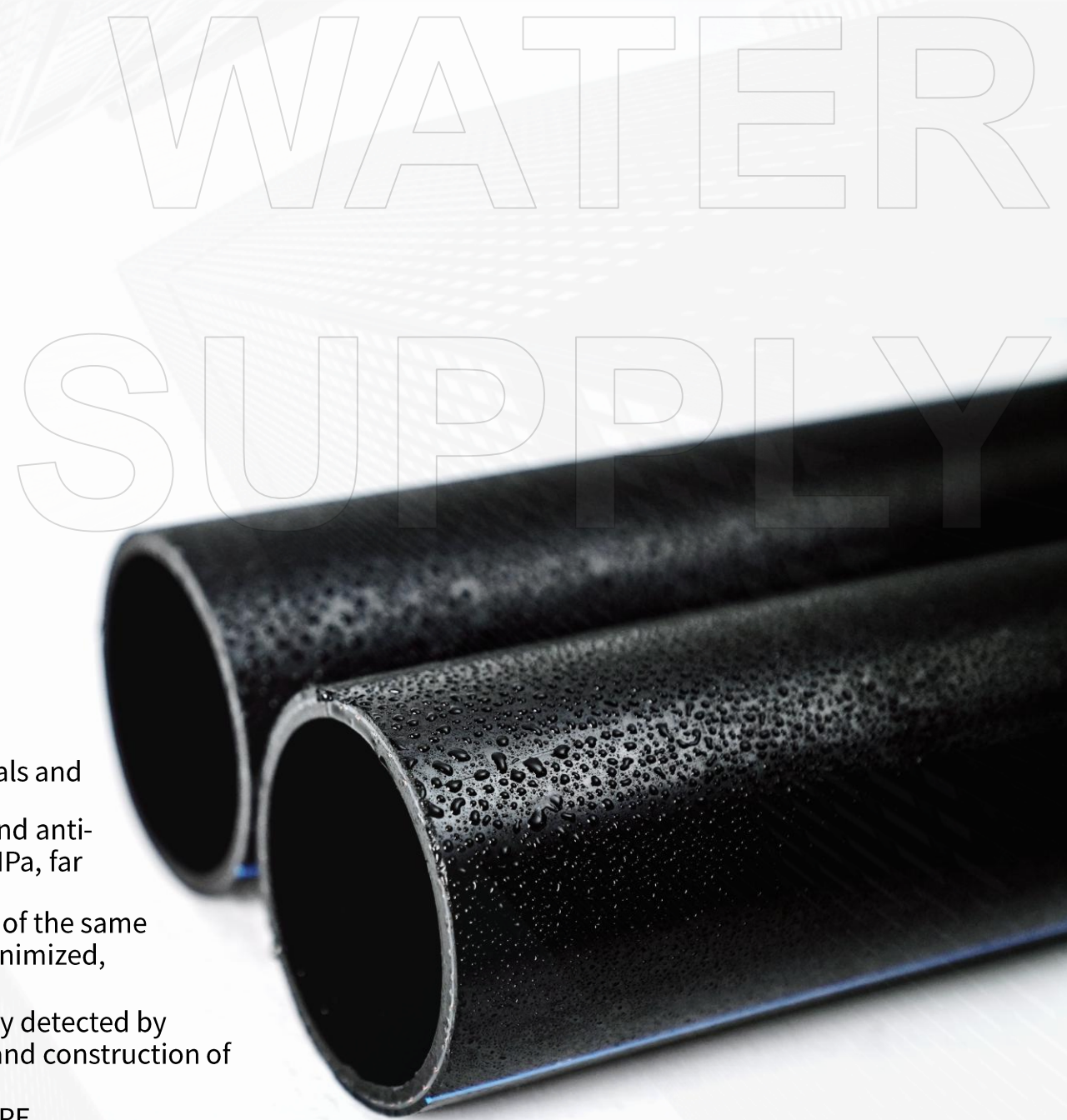
PE Steel Wire Reinforced Composite Piping System

Specifications

- **Nominal Outer Diameter:** dn50~dn1200
- **Pipe Series:** 1.0MPa~2.5MPa
- **Straight Pipe Length:** 6m in general, other lengths: customizable.
- **Standard:** GB/T 32439-2015

Advantages

- **Structural Advantages:** The product is composed of steel wires and plastic composite, overcoming the issue of rapid crack propagation in plastic materials and enhancing product safety.
- **Advantage in Pressure Resistance:** It exhibits superior pressure resistance and anti-creep performance, with a maximum pressure-bearing capacity of up to 3.5 MPa, far exceeding that of ordinary plastic pipelines.
- **Lightweight, Easy Handling and Installation:** Compared to PE plastic pipes of the same grade, the wall thickness is significantly reduced, and the weight is greatly minimized, making the product easier to handle and install.
- **Built-in Traceability:** After steel wire compositing, the pipeline can be directly detected by metal detectors, providing convenience for future excavation, maintenance, and construction of other pipelines.
- **Long Service Life:** Performance degradation is slower compared to ordinary PE pipelines, endowing the PE steel wire skeleton pipe with a longer service life.



Applications



Municipal Engineering

It also replace PE water supply pipes in municipal water supply and drinking water transportation applications.



Mining and Smelting

It is suitable for transporting ores, slurries, and corrosive media in mining operations.



Chemical Industry

It is used for transporting corrosive liquids in chemical manufacturing, textile, ignition, and other related industries.



Oil and Gas Fields

Equipped with built-in traceability and static electricity conduction capabilities, it is suitable for long-distance transportation of petroleum, natural gas, and other similar substances.

WATER SUPPLY

PVC-UH Water Supply Piping System

Specifications

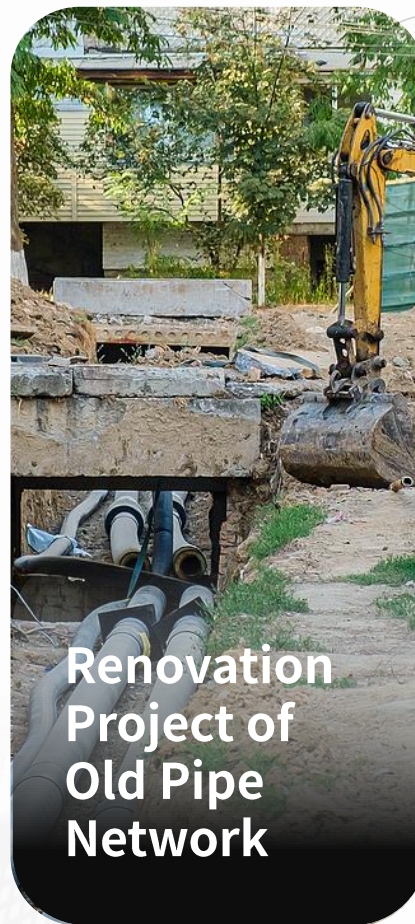
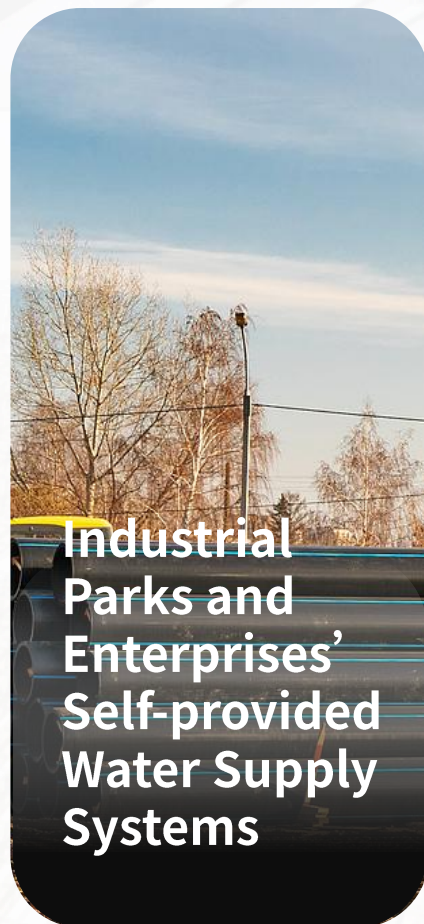
- **Nominal Inner Diameter:** DN 110- DN800
- **Pipe Series:** 0.63MPa~1.6MPa
- **Straight Pipe Length :** 6m in general, other lengths: customizable
- **Standard:** CJ/T 493-2016

Advantages

- **Excellent Sanitary Performance**
- Lead-free, eco-friendly formula; meets drinking water safety standards.
- **Superior Pipe Performance**
- Lightweight with a high-performance low-density formula, reducing transportation and installation costs;
- Enhanced pressure resistance: hydraulic hoop stress of 42MPa (vs. 38MPa), a 10.52% increase (nominal pressure ≤ 2.5 MPa);
- Improved corrosion resistance and impact strength: dichloromethane immersion test time doubled with better plasticization;
- High rigidity: 10%-20% higher tensile strength;
- **Strong Sealing**
- Integrally-molded socket with steel-reinforced EPDM rings; resists aging/compression set, seals well on slight deflection, prevents leakage.
- **Efficient Construction**
- Rings integrally molded with pipes – no manual installation, faster construction; secure (no dislodgment unless damaged), reliable sealing.



Applications



WATER SUPPLY

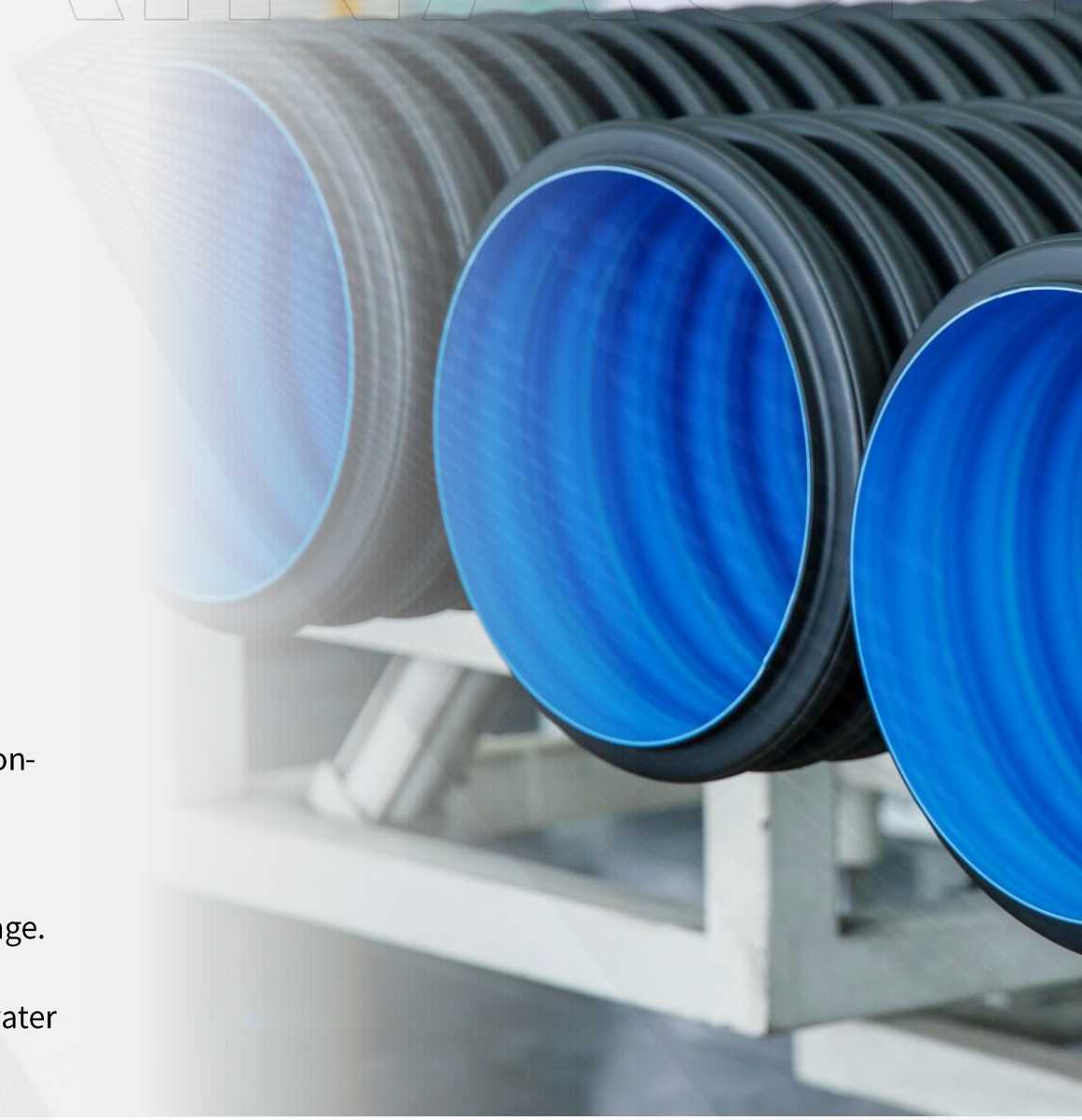
HDPE Double-Wall Corrugated Piping System

Specifications

- **Nominal Inner Diameter:** DN200-DN800
- **Pipe Series:** SN4, SN8, SN12.5
- **Straight Pipe Length :** 6m in general, other lengths: customizable
- **Standard:** GB/T 19472.1-2004

Advantages

- **High Strength & Strong Pressure Resistance**
- High strength, with outstanding compression, bending and impact resistance.
- **Corrosion Resistance & Environmental Friendliness**
- Corrosion and aging resistant, with a service life of up to 50 years; Non-toxic, pollution-free, with excellent environmental performance.
- **Easy Construction & Reliable Connection**
- Lightweight, easy to construct, significantly reducing construction costs;
- Reliable connection via sealing rings, achieving complete sealing to ensure no seepage.
- **Smooth Inner Wall & Low Water Flow Resistance**
- Strong fluidity: the smooth inner wall minimizes flow resistance and ensures large water flow.



Applications

A night-time photograph of a city skyline with numerous lights, viewed from a distance with mountains in the background.

**Municipal
Drainage
and Sewage
Network**

A photograph of a large industrial facility with a tall smokestack and a street lamp in the foreground.

**Chemical
Wastewater
Discharge
Network**

A photograph of a large industrial facility, likely a mine or factory, with a tall smokestack and a street lamp in the foreground.

**Mine and
Building
Ventilation**

A photograph of a railway track with a train in motion, creating a blurred effect, and a street lamp in the foreground.

**Railway and
Highway
Drainage**

DRAINAGE

HDPE Wound Structural Wall Piping System (Type B)/ Krah Pipe

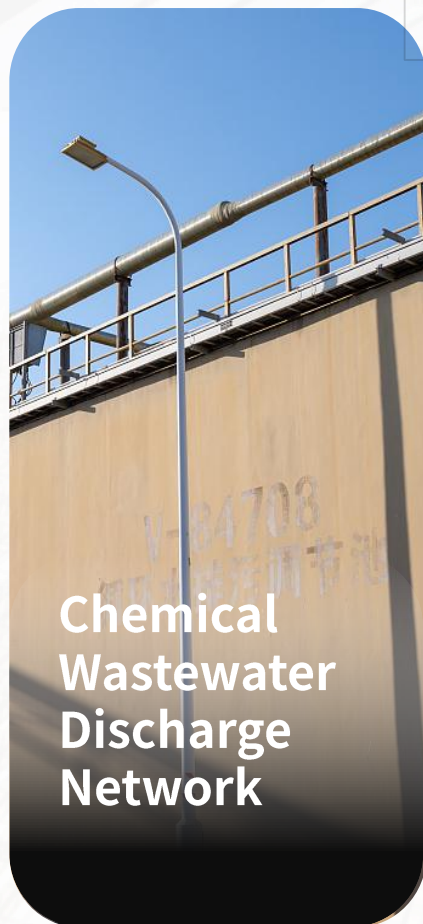
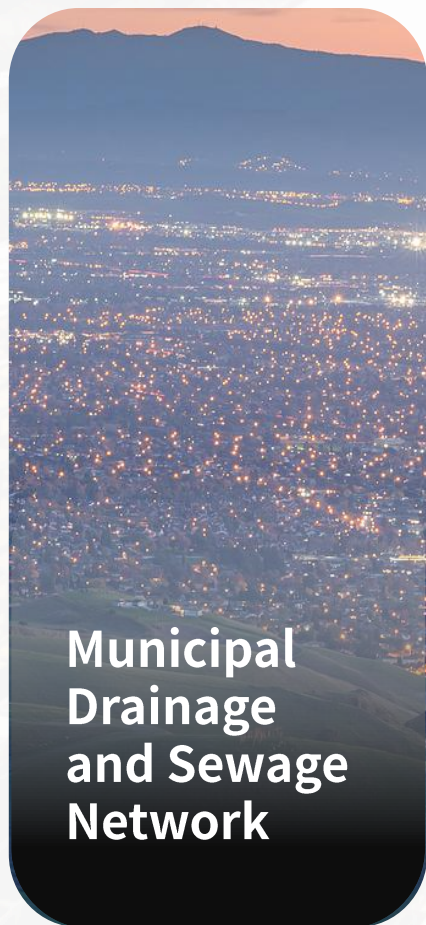
Specifications

- **Nominal Inner Diameter:** DN/ID200-DN/ID2000
- **Pipe Series:** SN4, SN8, SN10, SN12.5
- **Straight Pipe Length :** 6m in general, other lengths: customizable
- **Standard:** GB/T19472.2-2017

Advantages

- **High Weld Strength:** High-quality seams from hot-wound PE molding.
- **Reliable Connection:** Using electric fusion connection with high joint strength, multiple pipes can be welded on the groove and be Underground as a whole, saving time and effort.
- **Superior Drainage Performance:** Using internal mold for quality control, the inner surface is smooth, lowers leakage risk.
- **High Degree of Engineering Compatibility:** The pipe material's ring stiffness can reach 20KN/m². Appropriate pipe materials can be selected according to different engineering conditions.
- **High Environmental Adaptability:** Convenient construction with little constraint from season, temperature, or region. can be used normally within an environment of -10 to 40°C.
- **Long Service Life:** Corrosion-resistant and aging-resistant, its normal service life.

Applications



DRAINAGE

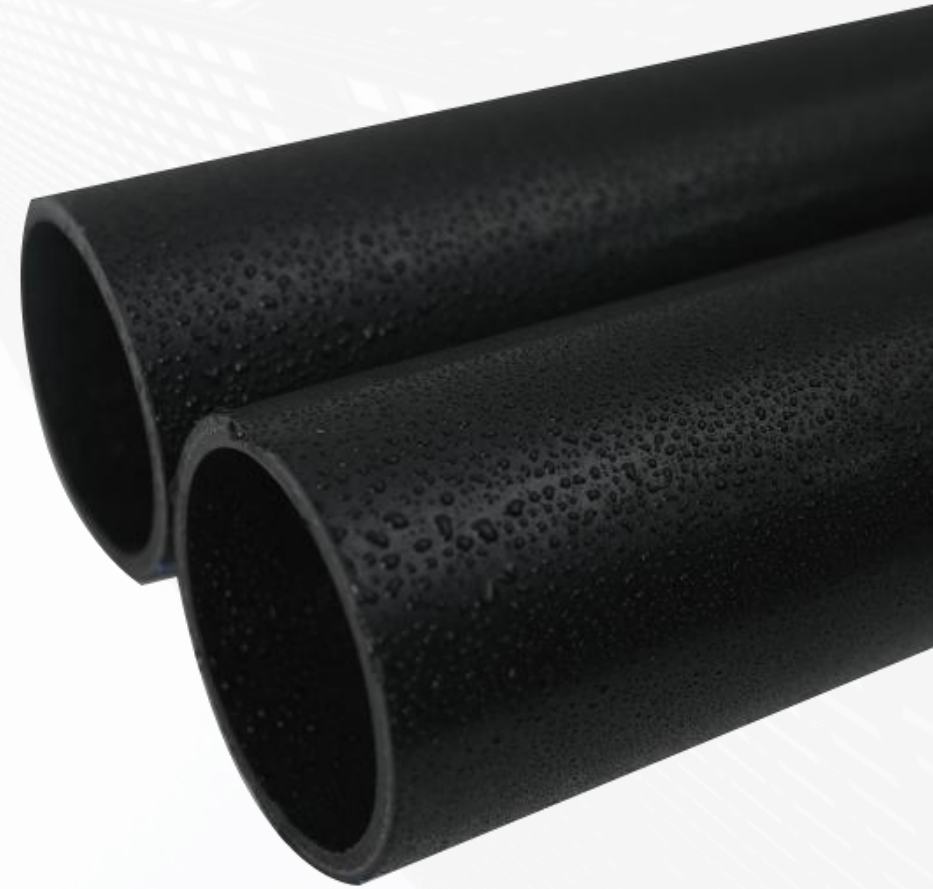
Trenchless HDPE Solid Wall Sewer Piping System

Specifications

- **Nominal outer diameter:** dn160-dn800
- **Pipe series:** SN8、SN16、SN32
- **Straight pipe length :** 9m and 12m in general, other lengths: customizable
- **Standard:** CJ/T358-2019

Advantages

- **Reliable Connection:** Homogeneous joints (hot-fusion/electro-fusion/butt-fusion); simple, safe & reliable.
- **Superior Drainage Capability:** The inner wall of the pipe is smooth with low friction resistance, preventing scaling and decay even after long-term use.
- **Impact-Resistant with High Toughness:** It exhibits high impact strength, excellent axial flexibility, and strong resistance to stress cracking.
- **Long Service Life:** With wear resistance four times that of steel pipes and corrosion resistance to various chemical media, it has a safe service life of up to 50 years.



DRAINAGE



Municipal Drainage and Sewage Network

Urban non-pressure drainage projects laid using trenchless technology, where the working temperature does not exceed 40°C.

Underground C-PVC Power Cable Conduit System

Specifications

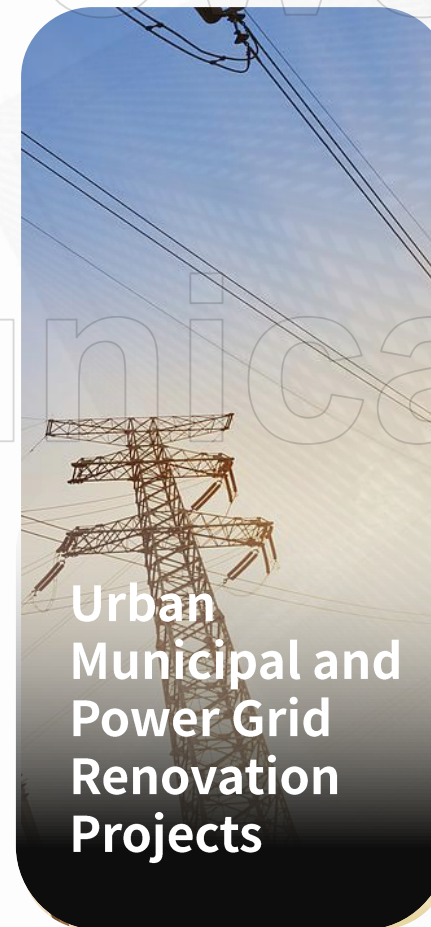
- **Nominal Inner Diameter:** d100-d250
- **Pipe Series:** SN8, SN12, SN16
- **Straight Pipe Length:** 6m in general, other lengths: customizable
- **Standard:** QB/T2479-2005, DL/T802.3-2023

Advantages

- **Excellent Heat Resistance:** With a heat deflection temperature of up to 93°C, it is suitable for high-temperature environments.
- **Good Insulation Properties:** Featuring a volume resistivity of $\geq 1.0 \times 10^{11} \Omega \cdot m$, it can withstand voltages up to 10 kV.
- **Excellent Flame Retardancy:** With an oxygen index ≥ 40 , the pipe is resistant to combustion.
- **Easy Installation:** Adopts flared end-socket solvent cement bonding, featuring easy installation and high cost-effectiveness.
- **Long Service Life:** The material is highly corrosion-resistant, which is not prone to breaking or aging, and has a long service life.



Applications



Power and
Tele-
communications

Trenchless MPP (Modified Polypropylene) Power Cable Conduit System

Specifications

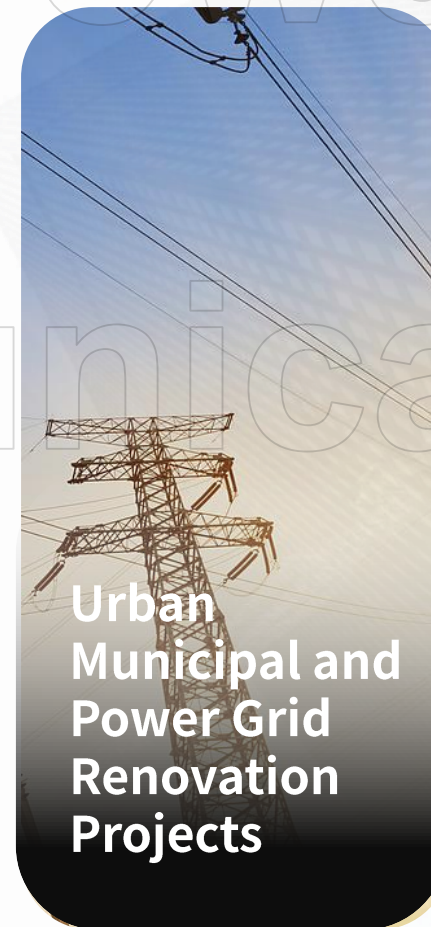
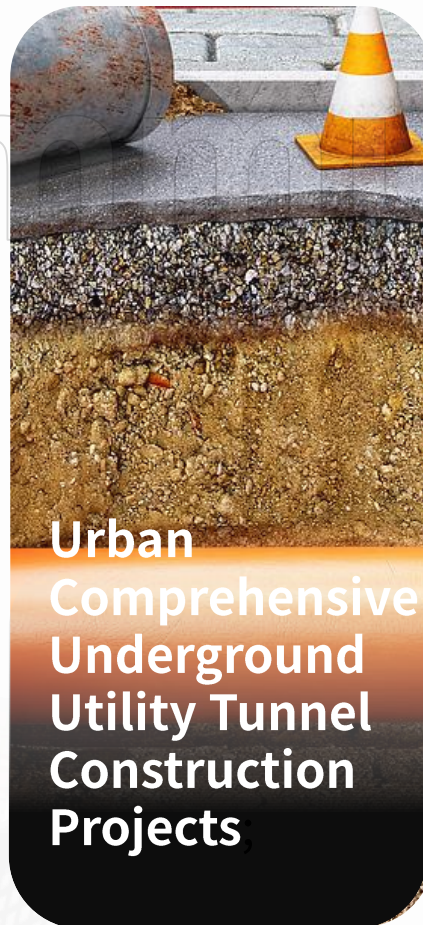
- **Nominal Inner Diameter:** d100-d250
- **Pipe Series:** SN24, SN32, SN40
- **Straight Pipe Length:** 6m in general, other lengths: customizable.
- **Standard:** DL/T802.7-2023

Advantages

- **High Temperature Resistance:** High-voltage power cables generate localized heat during operation or overload. MPP pipes maintain sufficient ring stiffness even under high temperatures to ensure the protection of high-voltage cables.
- **Strong Compression and Impact Resistance:** MPP pipes offer significantly higher ring stiffness than HDPE pipes, enabling them to withstand substantial soil pressure without noticeable deformation. Additionally, MPP pipes provide excellent impact resistance in both low and high-temperature environments.
- **Strong Environmental Adaptability:** In trenchless engineering applications such as horizontal directional drilling, pipes and weld points are subjected to considerable tensile and bending forces. MPP pipes demonstrate superior flexibility and bending performance, making them well-suited for demanding trenchless installation conditions.



Applications



Power and
Tele-
communications

Residential & Commercial Piping System

Applications

- Plumbing
- Gas
- Electricity
- Air Conditioning
- Drainage

Multilayer Plumbing System

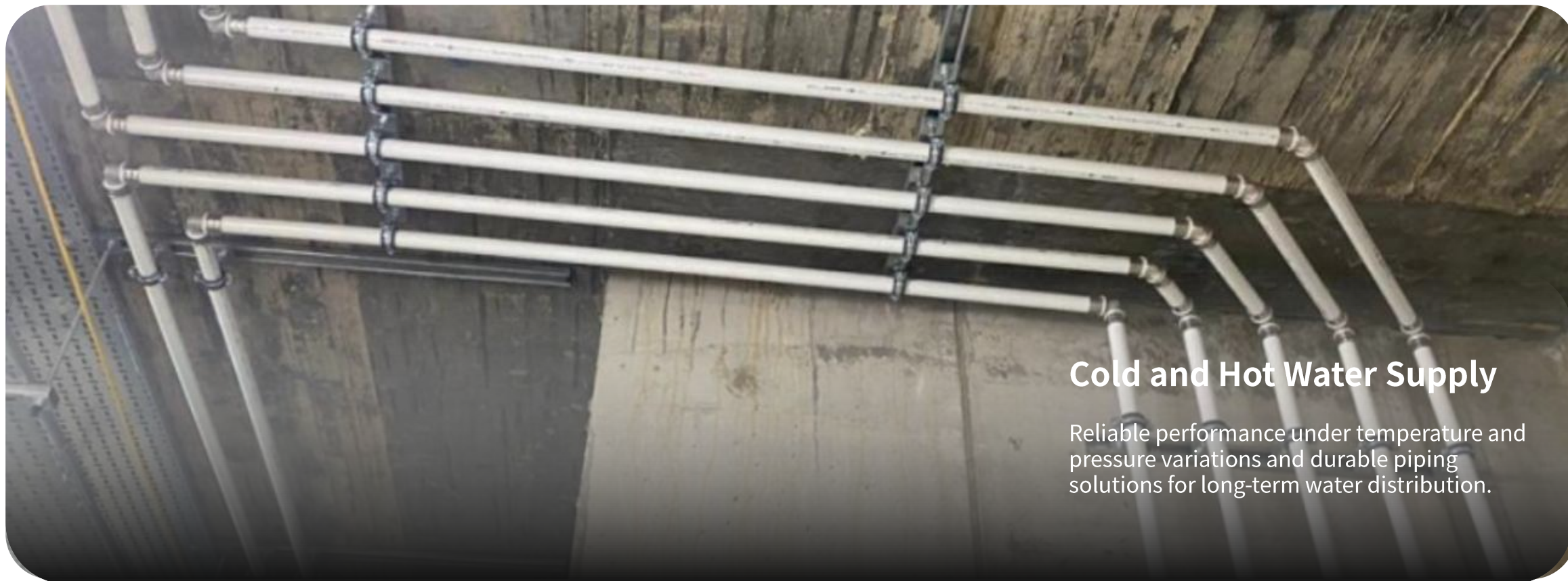
Specifications

- **Size:** 1216-5163mm
- **Pipe Length:** Typically supplied in coils of 50m, 100m, 200m, etc.
- **Standard:** UNE ISO 21003, ASTM F 1281

Advantages

- **Combines metal and plastic pipe advantages:** Excellent corrosion, high-temperature & anti-aging resistance.
- **Excellent Long-term Sanitary Performance:** PEX/PERT inner & middle Al strip block oxygen/light, minimizing microbial growth.
- **Strong & Flexible:** Combines metal strength + plastic flexibility for easy installation in any layout. Fewer fittings reduce pressure loss and leakage risk.
- **Leak-Proof Connections:** Secure fittings guarantee long-term performance and safety.
- **Quiet Operation:** Reduces vibration and water hammer for a more comfortable user experience.
- **Various Fittings Available:** Push-fit fittings, compression fittings, press fittings, etc.

Applications



Cold and Hot Water Supply

Reliable performance under temperature and pressure variations and durable piping solutions for long-term water distribution.

PP-R Plumbing System

Specifications

- **Size:** 20-160MM
- **Pipe Series:** SDR11, SDR9, SDR7.4, SDR6
- **Straight Pipe Length:** 4m, 6m in general, other lengths: customizable
- **Standard:** DIN 8077/8078, ISO 15874, GB/T 18742

Advantages

- **Excellent Temperature Resistance:** Performs reliably in both hot and cold water applications, withstanding continuous high temperatures.
- **Long Service Life:** Durable material resists wear, corrosion, and scaling, ensuring 50 years of safe use.
- **Hygienic & Safe:** Non-toxic, odorless, and suitable for potable water without altering taste or quality.
- **Safe Homogeneous Connections:** Hot-fusion welding creates seamless connections with low risk of leakage.
- **Energy Efficiency:** Low thermal conductivity minimizes heat loss in hot water systems.
- **Versatile Connection Options:** Meet diverse needs—hot-fusion, butt-fusion, and electro-fusion welding fit different scenarios.



Applications

- **Cold and Hot Water Supply:**

Reliable performance under temperature and pressure variations and durable piping solutions for long-term water distribution.





Multilayer Air Conditioning Piping System

AIR
CONDITIONING

Specifications

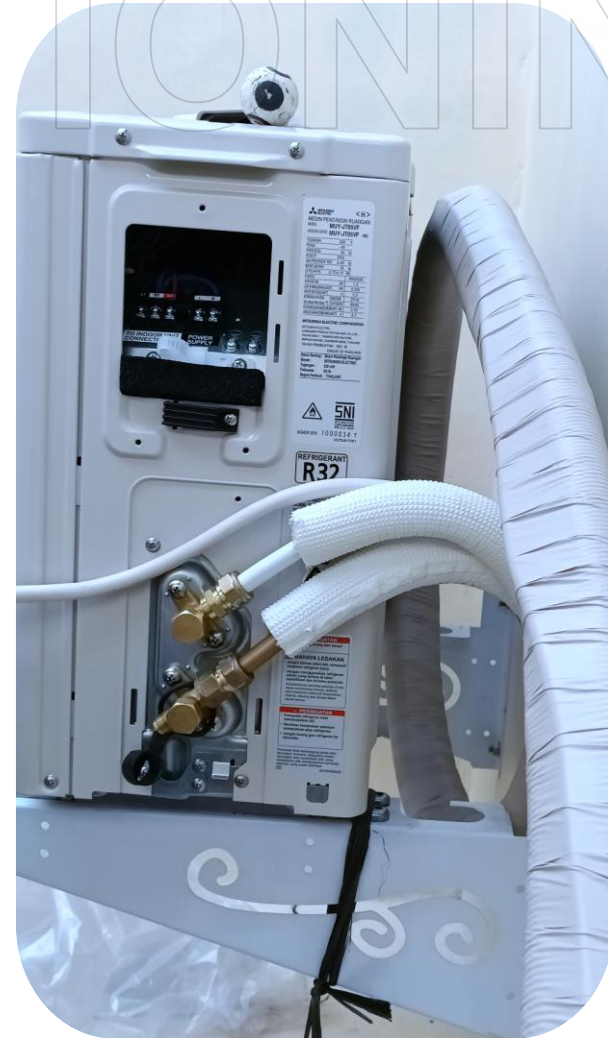
- **Size:** 0712-2632MM
- **Pipe Length:** Typically supplied in coils of 50m, 100m, 200m, etc.
- **Standard:** ICC-ES LC1035 ASTM F1281

Advantages

- **Greater Flexibility for Easy Installation:** Bendable and easier to install than copper pipes, saving installation time.
- **Superior Cost-Effectiveness:** Offers great value, with over 40% cost savings vs. copper systems.
- **Time-Saving Installation:** Wrench-operated compression connections vs copper pipe welding – faster, cheaper, easier.
- **Superior Multi-Layer Defense:** Leverages multi-layer technology to ward off natural corrosion and condensation problems.
- **Strong Yet Flexible:** Easy to bend with fewer fittings, minimizing pressure loss and leakage potential.

Applications

- Designed for mini split air conditioning (cooling only)



AIR
CONDITIONING

PVC Drainage System

Specifications

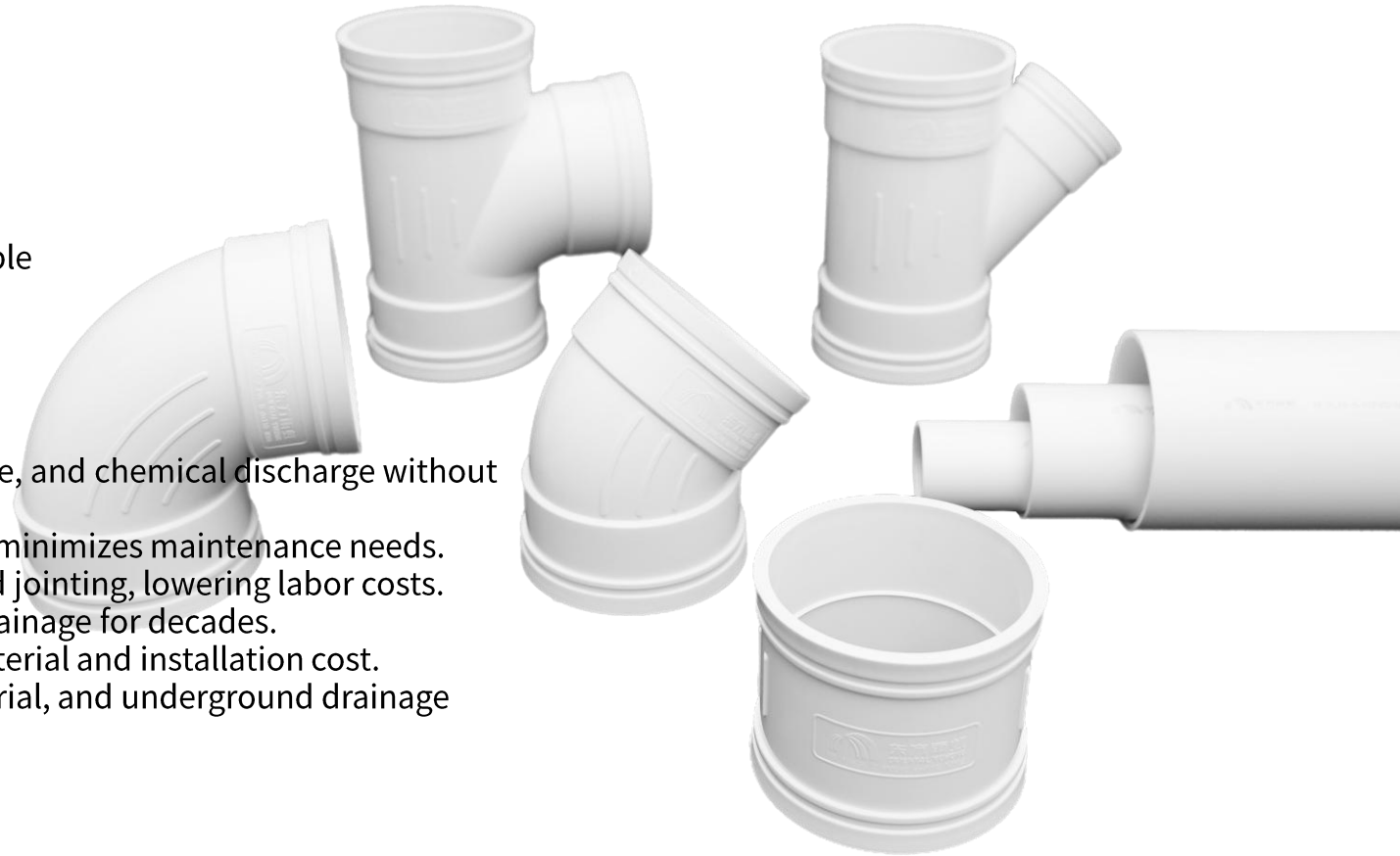
- **Size:** 50-315MM
- **Straight Pipe Length:** 4m, 6m in general, other lengths: customizable
- **Standard:** GB/T 5836.1-2018, GB/T 5836.2-2018

Advantages

- **Corrosion & Chemical Resistance:** Withstands wastewater, sewage, and chemical discharge without rusting or scaling.
- **Smooth Inner Surface:** Ensures fast flow, reduces blockages, and minimizes maintenance needs.
- **Lightweight & Easy Installation:** Simplifies transport, cutting, and jointing, lowering labor costs.
- **Durable & Long Service Life:** Strong structure provides reliable drainage for decades.
- **Cost-Effective:** Offers excellent performance at an economical material and installation cost.
- **Versatile Application:** Suitable for residential, commercial, industrial, and underground drainage networks.

Applications

- It is widely used in residential, commercial, industrial, healthcare, and underground sewer networks, as well as in renovation projects for reliable wastewater management.





YuGuard™

Multilayer Gas Piping System

GAS

Specifications

- **Size:** 1216-5163mm
- **Pipe Length:** Typically supplied in coils of 50m, 100m, 200m, etc.
- **Standard:** UNE 53008.1 ISO 18225 ISO 17484

Advantages

- **High Safety Assurance:** 5-Layer Aluminum-Core Structure ensures no gas permeability.
- **Superior Cost-Effectiveness:** Offers great value, with over 40% cost savings vs. copper systems.
- **Easy to Install:** Bendable by hand, reducing 50% installation time than metal pipe.
- **Greater Flexibility:** Require fewer fittings, lowering the risk of leakage and pressure loss for large flow.
- **Corrosion Resistant:** Prevents rust, scaling, and chemical reaction, ensuring long service life.
- **Durable Performance:** Resistant to temperature changes and external impacts for reliable operation.

Applications

- Residential and Commercial gas supply for kitchens and heating appliances.

Applications



- Residential and Commercial gas supply for kitchens and heating appliances.

PVC Electrical Conduit

Specifications

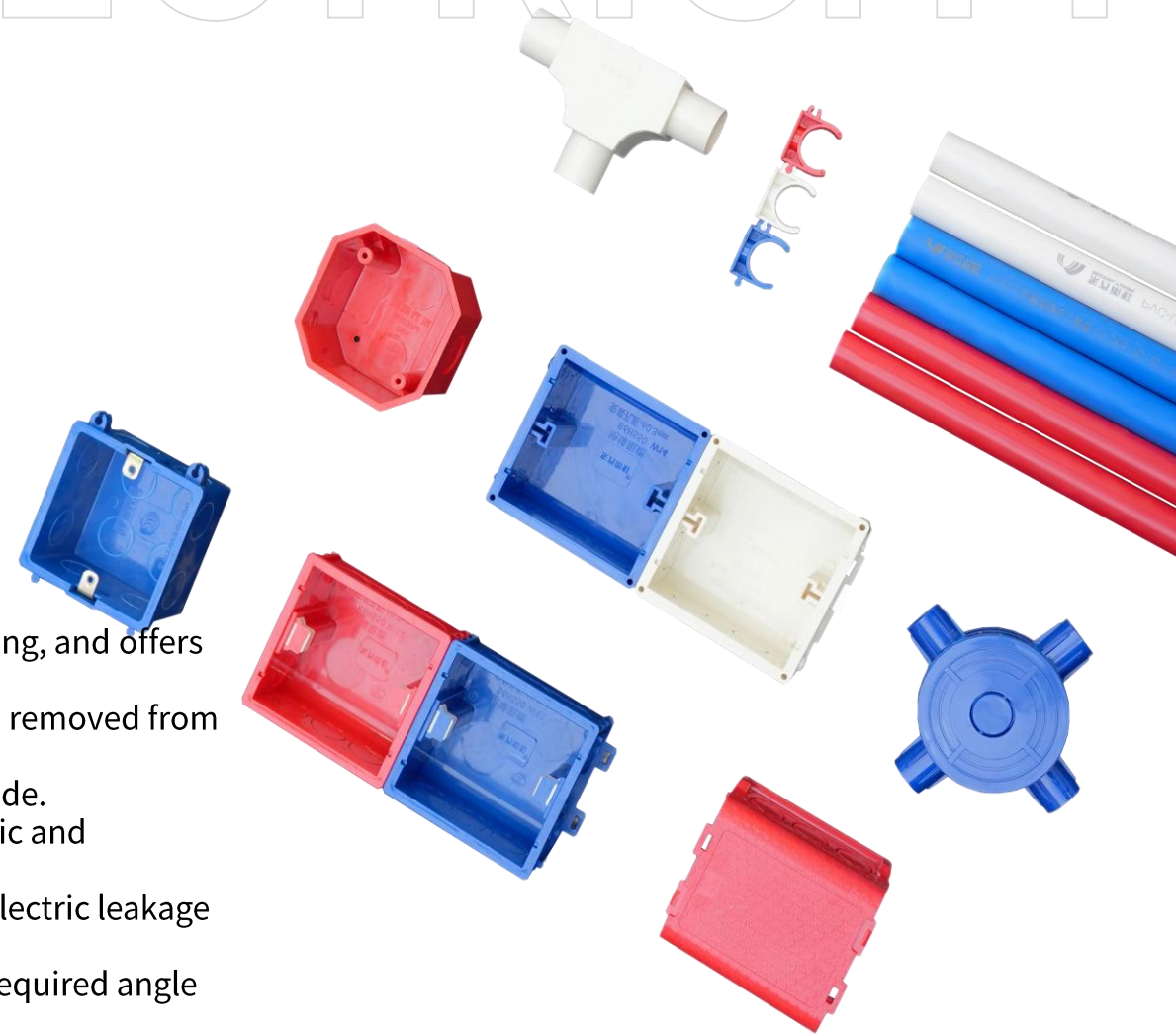
- **Nominal outer diameter:** DN16-40MM
- **Pipe Series:** light, medium, and heavy-duty pipes
- **Straight Pipe Length:** 4m in general, other lengths: customizable
- **Standard:** JG3050-1998

Advantages

- **Pressure Resistance:** High strength, compression-resistant, flattens without cracking, and offers good flexibility.
- **Flame Retardant:** The material is not easily flammable and self-extinguishes when removed from the flame. Fire will not spread along the pipe.
- **Corrosion Resistance:** It exhibits excellent corrosion resistance and does not corrode.
- **Environmentally Friendly:** The material contains no plasticizers, making it hygienic and environmentally friendly.
- **Insulation:** With excellent insulation properties, it effectively prevents accidental electric leakage and electric shock.
- **Easy to Install:** The pipes can be easily cut, and below dn32, it can be bent to the required angle at room temperature using a special spring

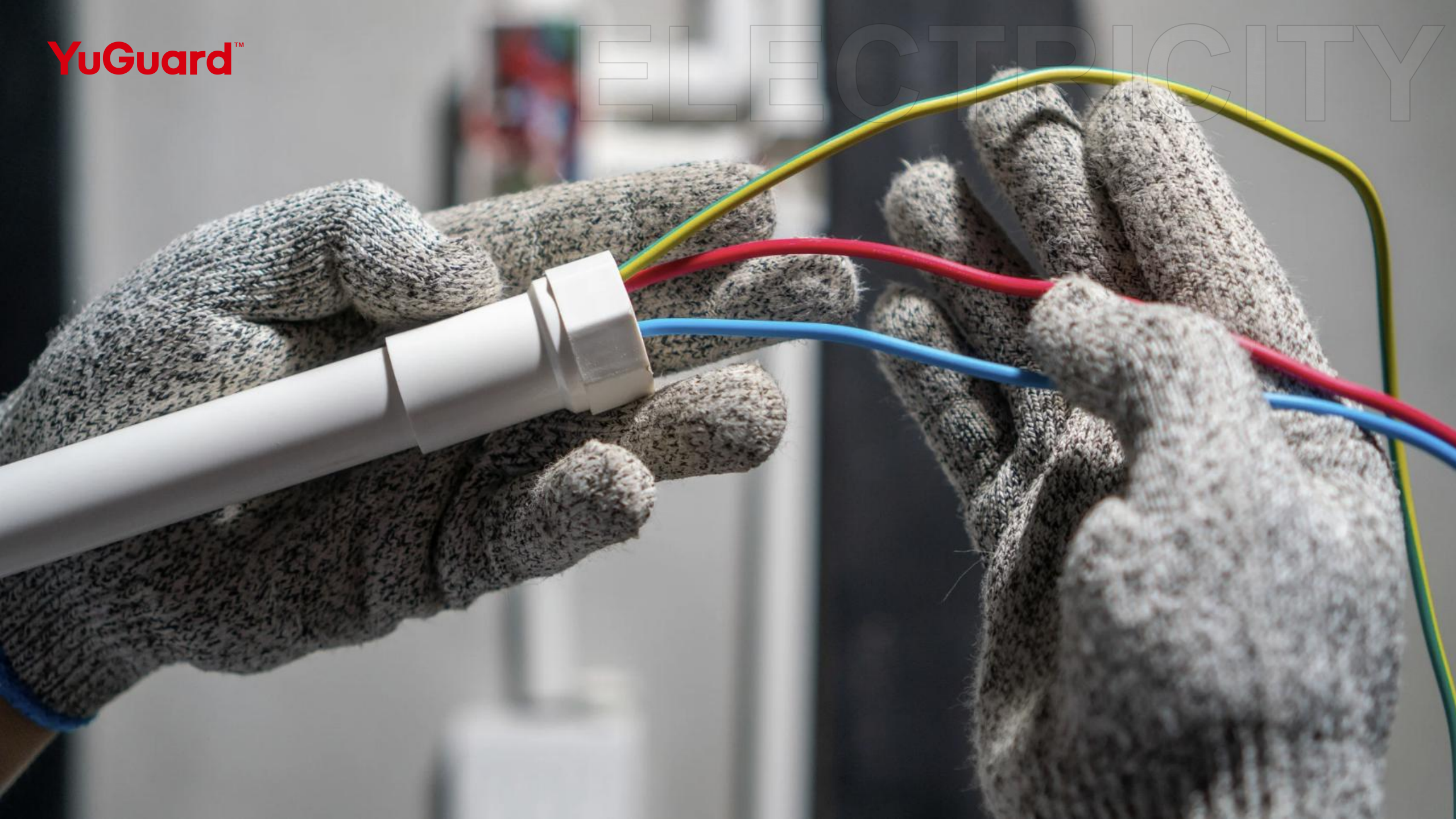
Applications

- Pre-embedded threading pipes for residential buildings, hotels, hospitals, and other structures.



YuGuard™

ELECTRICITY



Industrial Valves

03

Product Series

- Concentric Butterfly Valve
- Eccentric Butterfly Valve
- Gate Valve
- Check Valve



Applications &

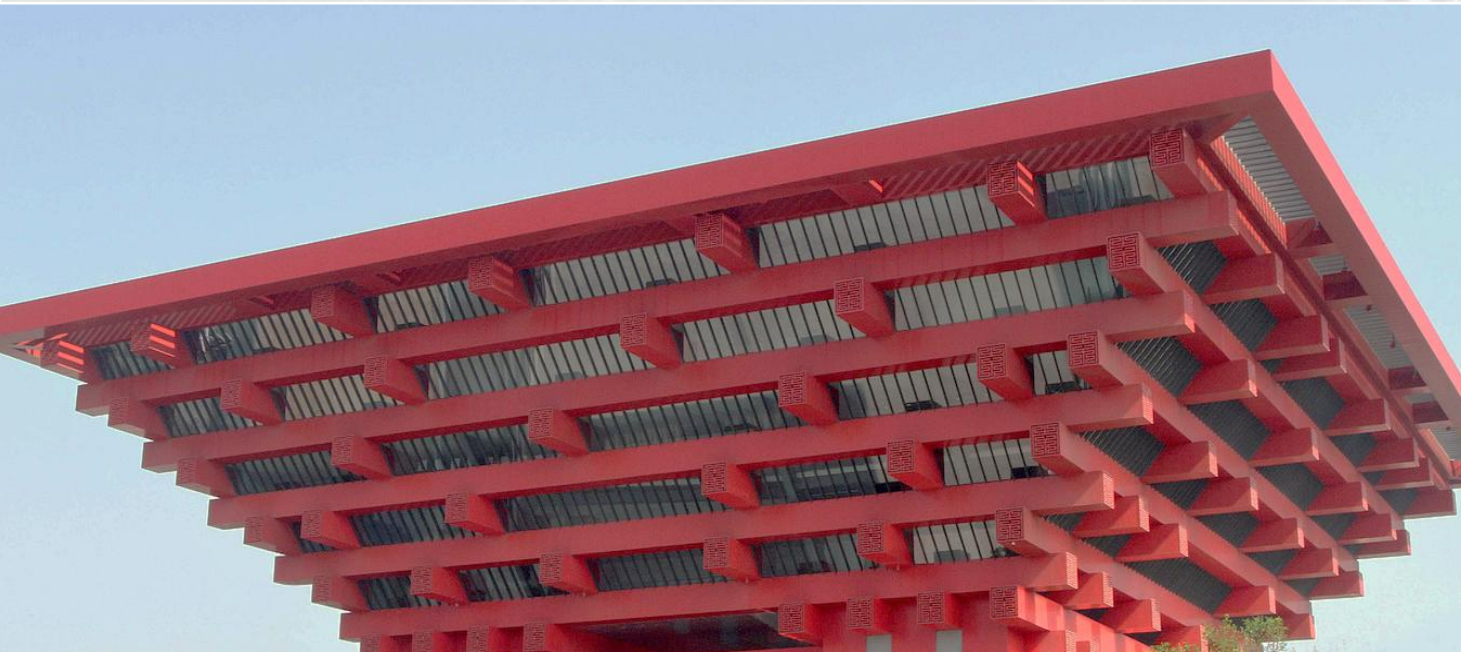
Our References

Applications

- Municipal
- Industrial
- Residential
- Commercial



- China National Stadium, China



- China National Pavilion, China



- Shanghai Tower, China



- Huawei Data Center, China



- Hongkong-Zhuhai-Macau Bridge, China



- Beijing Daxing Airport, China



- Jakarta-Bandung High-Speed Railway, Indonesia



- Karachi Nuclear Power Plant



- Mass Rapid Transport

Part Three

What We Care





YuGuard™

We Care,
Quality Above All

High-Quality Raw Materials

YuGuard cooperates with leading domestic and international raw material manufacturers such as BASF, Lanxess, LyondellBasell, CNPC, and Sinopec. Once the raw materials enter the factory, they undergo multiple testing procedures to ensure material quality and secure product reliability from the very source.

Product Quality Control

We prioritize quality through a third-party management system combined with strict internal standards. From raw materials to finished products, every stage is inspected and verified under a five-level control system to ensure reliable quality.

Process Testing and Monitoring



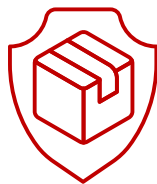
Process Assurance

Strictly adhere to process parameters control and emergency plans for production anomalies.



Testing Assurance

Raw materials, in-process products, and finished products by high standards.



Workshop Assurance

Self-inspection at the post, process inspection, and strict distinction between qualified and unqualified products.

Raw Material Incoming Inspection

Raw Materials Pilot Verification

Raw Materials Inspection

Product Central Control Testing

Central Control Testing

Production Line Sampling Inspection

Product Factory Inspection

Finished Product Inspection



YuGuard™

We Care,
Creating a **Sustainable** Future

Responsibilities build up the future

Publishing social responsibility/sustainable development reports for 17 consecutive years



Promote the high-quality development of the industry

Enter the market with strong self-discipline, adhere to the principle of quality first, constantly deliver high-quality products and services, and create a healthy and fair development environment with practical actions.



Explore the development path of carbon neutrality

Innovate research and development, build clean and green plants, implement green and intelligent construction techniques, promote green products, and build resource-saving and environment-friendly enterprises.



Interact with the society in a beneficial cycle

Organize special charitable activities in the fields of charity, education, and poverty alleviation, act quickly in social emergencies, and assume corporate responsibilities.

YuGuard™

We Care,

Your Success Matters

Our Service System

One-stop service for hassle-free customer experience

Pre-Sales Service

We provide tender support, customer inspection reception, design optimization, product knowledge training, etc.

In-Sales Service

Guaranteed delivery, equipment supply, technical support, construction training, and major project services, etc.

After-Sales Service

Assistance with pipe emergency repairs, major project follow-up services, and regular customer revisit, etc.



Materials Selection



In-Time Delivery



Construction Technology Guidance



Rapid After-Sales Service

YuGuard™