

Glass Reinforced Plastic (GRP) Pipe

The GRP pipe utilizes thermosetting resin as a matrix, reinforced with glass fiber. Manufacturing processes include pure GRP pipe, GRP mortar pipe, and centrifugal casting GRP pipe, each offering distinct structural properties.



Product Overview

High-Performance GRP Piping Solutions

Glass Reinforced Plastic (GRP) pipes offer an advanced, corrosion-resistant solution for diverse industrial applications, including water supply, chemical processing, and agriculture. Engineered for durability, these pipes provide a service life exceeding 50 years while maintaining high strength and a lightweight profile. Their superior hydraulic efficiency and ease of installation make them a cost-effective alternative to traditional steel, ductile iron, and PE piping systems.

Physical Properties

Relative Density	1.75 g/cm ³
Weight Comparison	Approximately 1/4 the weight of steel
Expected Service Life	50 years

Performance Metrics

Flow Capacity Advantage

15 % Increased Flow Capacity	20 % Energy Savings
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Corrosion Resistance	Acids, Alkalis, Salts, Organic Solvents
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Economic Performance

Cost Advantage vs. Alternatives

Material	Cost Advantage
Ductile Iron Pipe	35% Cheaper
Steel Pipe	15-20% Lower
PE Pipe	2/3 of Price

Installation Expense	5% of pipe price
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Applications

Suitable Industries

Water Supply • Drainage • Petroleum • Chemical Industry • Medicine • Agriculture • Irrigation • Food Industry