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™

Quality ISO 9001

Flowtite™ GRP
Jacking Pipe

The ultimate in piping solutions

FT Ver 1.0 - 03.09
v1.1
FLOWTITE™ Jacking Pipes

FLOWTITE™ Jacking pipes are designed for the construction and renovation of underground pipelines using trenchless methods. FLOWTITE™ jacking pipes feature high axial strength and ring stiffness and a flush coupling design.

FLOWTITE™ Jacking Pipes are manufactured on a continuously winding and advancing mandrel, ensuring consistent high quality pipes. These are recognised for their strength and corrosion resistance making them suitable for a range of applications including water, sewerage and drainage.

The FLOWTITE™ Jacking Pipe product range consists of the following products:
- Standard jacking pipes
- Jacking pipes with injection nozzles
- Relining pipes
- Specially tailored fittings
- Diameter range 300—3000mm

Applications

FLOWTITE™ Jacking Pipes are used in pipeline construction for the transport and storage of water, sewerage, drainage and industrial wastewater. FLOWTITE™ Jacking pipes can be installed in straight or curved sections in vertical or horizontal alignments. The construction methods are suitable for both cohesive and non-cohesive soils, in dry or high water table conditions.

Pipe jacking is primarily used for:
- Construction of new sewer pipelines
- Old sewer replacements
- Construction of conduits as protective tubes for gas pipelines, high pressure water pipelines, etc.
- Road and technology culverts in transport engineering
- Electricity and telecommunication cable ducts in urban areas or areas with groundwater restrictions
- Relining

Benefits

The main benefits of pipe jacking compared to open trench method are:
- Minimum environmental disturbance, especially in urban areas
- Significant reduction in social costs
- A strong, watertight, complete pipeline after jacking is finished
- Lower installation costs compared to open trench technology
- Pipe structure can be designed individually according to project-specific requirements.

The excellent hydraulic characteristics of FLOWTITE™ jacking pipes allow for a smaller internal diameter compared to pipes made of other material. This results in:
- Smaller jacking machines
- Minimum excavation volume
- Reduced jacking forces
- Smaller electric/hydraulic power units
- Smaller starting pit (thrust block volume)
- Lower energy consumption
- Reduced construction time
- Maximum cost savings
- Optimal price-to-performance ratio

FLOWTITE™ Couplings

Type

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Wall Thickness (mm)</th>
<th>Jacking Force (kN)</th>
<th>Wall Thickness (mm)</th>
<th>Jacking Force (kN)</th>
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<td>234 - 702</td>
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The FJ coupling is a GR coupling made of polyester resin reinforced with Fibreglass. The inner surface of the sleeve fits tightly to the wedge seal made of EPDM, SBR or NBR embedded into a special groove on the pipe spigot. The GR coupling is predominantly used for larger pipe diameters (DN ≥ 1000).