

Excellence
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MULTI/JOINT[®] 3000 Plus

Large-diameter connections for potable water supply

Customer reference: FWO Fernwasserversorgung Oberfranken

Ensure maximum operational security with a flexible, quick-to-install large-diameter connection system built for long-term performance

A secure DN900 connection for potable water supply

The potable water treatment plant in Rieblisch required a reliable connection solution to integrate new stainless-steel pipelines into an existing network. With MULTI/JOINT® 3000 Plus DN900, GF enabled a quick, secure and highly flexible installation — completed in two phases without interrupting the water supply.

Project background

The Upper Franconia Long-Distance Water Supply (FWO) treats raw water from Bavaria's first potable water reservoir in the Ködeltal, an area known for its exceptionally low pollution levels. At the Rieblisch treatment plant, raw water is processed into high-quality potable water and distributed across the region via 20 pumping stations and 25 elevated tanks. Supplying around one quarter of Upper Franconia's municipalities, the FWO continuously invests in infrastructure reliability. As part of a long-term modernization program, outdated steel pipelines and valves in the plant required replacement with durable stainless-steel systems.

Selected technical solution

Given the DN900 pipe diameter and the need for reliable transitions between old and new materials, FWO selected the proven MULTI/JOINT® 3000 Plus solution. The DN900 flange adaptors with EPDM sealing enable secure flange connections between stainless-steel and existing steel pipelines. Their innovative sealing and restraint system accommodates different pipe materials, angular deflections up to 8° per side, and simplifies installation even under tight spatial constraints. The solution eliminated the need for onsite welding and ensured a quick, safe and simple installation with standard tools.

Achieved improvement

The dual pipeline replacement over a total length of 30 meters was completed in two compact three-week phases, without interrupting the supply of water. Thanks to accurate 3D scanning, prefabrication and the flexible MULTI/JOINT® system, even heavy DN900 components could be installed efficiently in the confined pipe cellar. The corrosion-resistant Resicoat® epoxy coating ensures a service life of over 50 years while minimizing maintenance requirements. For the operator, the result is long-term operational security, reduced lifecycle costs and a fully reliable large-diameter connection.



Water is transported to the treatment plant via two pipelines. On both lines, the partly 50-year-old steel pipes had to be replaced over a length of 30 meters*.



When new meets old, precision is key: the highly durable stainless-steel pipes had to be installed accurately and securely connected to the existing pipelines*.

Customer benefits

- Quick installation with minimal service interruptions
- Secure, flexible connections for different pipe materials and large diameters
- Compensation for angular deviations up to 8° per side
- Lower maintenance requirements and reduced total operating costs

Where next?

