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MULTI/JOINT<sup>®</sup> 3000 Plus

# Modernization of the water network for an efficient infrastructure

Customer reference: Publiacqua Italia

To upgrade aging pipelines in central Florence, Publiacqua relied on the MULTI/JOINT<sup>®</sup> solution with DN800 flange adaptors

# A modern and safe water network to reduce water waste

The project carried out by Publiacqua together with GF is part of a major operation to modernize the water network in Florence, Prato, and Pistoia. It involves replacing a pipeline that have been in service for over 60 years and ensuring a more reliable, modern, and efficient network. This is a complex and challenging task because it has to be carried out in a critical location in the center of Florence.

## Project background

The project by Publiacqua and GF is part of a major modernization effort for the water network serving Florence, Prato and Pistoia. It involves replacing a more than 60-year-old pipeline in a critical area of central Florence to create a safer, more efficient and reliable system. The work includes installing new ductile iron pipelines equipped with MULTI/JOINT® technology to reduce water losses, improve service continuity and ensure long-term sustainability for the local community.

## Selected technical solution

The project covers an 11.2 km<sup>2</sup> area and includes the installation of 225 meters of DN800 and DN150 ductile-iron pipelines equipped with MULTI/JOINT® restraint fittings. These were chosen for their high performance in complex urban environments, offering reliability, flexibility and rapid installation. The solution enables precise management of service interruptions while protecting nearby green areas. Immediate material availability through local partner SDM Calenzano ensured seamless logistics and adherence to the project schedule. The proven performance of MULTI/JOINT® made it the ideal choice.

## Achieved improvement

The intervention strengthens the regional water infrastructure by providing a modern, resilient pipeline system capable of delivering 250 liters per second. The new installation significantly reduces water losses and enhances operational safety, ensuring long-term network reliability. Thanks to efficient project planning and flexible components, work proceeded with minimal disruption to traffic and urban areas. Once connected to the other pipelines, the upgraded system will offer improved service continuity, greater efficiency and increased protection of a vital resource — bringing clear benefits to both residents and public administration.



The quick and easy installation of MULTI/JOINT® is a crucial advantage, especially in construction sites located in challenging environments.



Rocco Sturchio, Construction Manager and Head of Maintenance at Publiacqua, oversees the work at the site.

## Customer benefits

- Easy replacement and installation, essential for the project's tight timelines
- Adaptable to pipelines of different sizes
- Compatible with various materials
- Over 50 years of maintenance-free service life, with a 15-year quality guarantee

## Where next?



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