

GF Piping Systems

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ELGEF Plus – Big Dimensions

Leak-free PE water mains

Waterworks Lublin – Poland

Corrosion-free PE piping system,
space-saving jointing and long service
life assures clean drinking water.

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ELGEF Plus

Rehabilitation of water main in Lublin

Providing large cities with drinking water is never an easy task. Outdated systems can cause problems such as leakages or contaminations. To secure a reliable, economical and sustainable water supply in the future, the Waterworks Lublin (Poland) decided to renew a part of their old steel piping system. The new PE transport line – jointed by ELGEF Plus fittings – now serves clean drinking water for 150 000 inhabitants in Lublin.

Project background

The project was supported by European funding and has been implemented by the national infrastructure program for water supply in urban agglomerations above 15 000 inhabitants. Molewski Sp. z o.o – a well established construction company in trenchless technology in Poland - realised the rehabilitation project in May to November 2014. As part of the project to extend and modernise Lublins water mains, a d710 mm PE pipe was pulled through an old DN 800 ductile cast iron pipe. As this main pipeline leads right through the city center, space-saving and time-efficient solutions for pipe laying and jointing techniques were requested.

Selected technical solution

The advantages of Polyethylene in comparison to Ductile Cast Iron pipelines were obvious and made GF Piping Systems the desired provider for the jointing technology. GF Piping Systems Poland was the ideal partner for Molewski and offered a complete local product package for reliable and cost-effective butt and electrofusion jointing as well as local service support for training and on-site support.

Achieved improvement

The rehabilitated Polyethylen transport lines provides an abrasion resistant as well as a corrosion-free water supply and warrants a long service life to secure the water supply of the coming generations. The full product and on-site service of ELGEF Plus butt- and electrofusion joints made life for the Molewski-team easy and ensured high quality jointing. The unique design of the d710 mm ELGEF Plus couplers allowed them to slide the fitting onto the pipe without effort. This eased the installation of the bulky segmented bend in the narrow relining pit and reduced time and costs significantly.



Full product package: ELGEF Plus fittings, rerounding tool and MSA fusion unit.



Onsite integration of a segmented bend by easy sliding of ELGEF Plus couplers.

Customer benefits

- Safe and reliable jointing techniques with GF Piping Systems butt fusion machines and ELGEF Plus electrofusion fittings.
- Hassle-free and easy installation even in narrow relining pits thanks to ELGEF Plus Couplers and accessories.
- Best service package locally provided fittings, machines, tools, trainings, documentation and technical support.
- Corrosion and abrasion resistant PE transport lines guarantees a long service life and contributes to a low environmental impact.

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