

GF Piping Systems

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ELGEF Plus

# PE fittings for green utility

ELGEF Plus installed by HSY in Helsinki

Polyethylene (PE) fittings tick all the boxes for environmentally conscious Finnish water utility.

# Green-minded water utility chooses ELGEF Plus



Buried water supply networks in urban areas need to be ultra-reliable to ensure security of supply, and to keep maintenance and repair costs to a minimum. Operating a reliable water supply system while complying with stringent environmental objectives can represent a headache for utilities. Helsinki Region Environmental Services Authority HSY (Finland) chose GF Piping Systems' ELGEF Plus fittings to renovate the capital's water supply system.

## Project background

HSY is the largest public environmental body in Finland and produces waste management and water services for over one million residents throughout Helsinki. HSY's responsibilities include the maintenance and upgrading of the region's 3'000 kilometers of water supply piping and 4'900 kilometers of sewers. Following over ten years of collaboration, HSY signed a three-year "preferred partner" agreement in June 2020 with GF Piping Systems because they could provide the data on the CO<sub>2</sub> footprint of its products. GF Piping Systems will supply HSY with polyethylene (PE) piping fittings for its water network maintenance and upgrade program.

## Selected technical solution

The agreement involves supplying fittings for a wide range of pipe diameters, from 20 mm to 1'000 mm. The corrosion-free, lightweight fittings in the ELGEF Plus range (couplers, elbows, reducers and much more) can be used to build flexible, custom-tailored solutions. Their low weight makes them ideal for large-diameter applications, not least because they reduce the need for heavy transport equipment on work sites. With services provided such as engineering support and prefabrication, PE systems are installed quickly and easily.

## Achieved improvement

Now that the supply agreement for PE fittings is in place, all efforts that went into building a relationship with the supplier, securing detailed carbon footprint traceability, and learning how to install the fittings will start to bear fruit. HSY can now look to the future with confidence, secure in the knowledge that renovation work on its water supply network can be carried out quickly and safely, and that a durable and highly reliable PE fittings solution will be in place in the metropolitan area's underground water supply network for decades to come.



GF Piping Systems provides on-site training on the correct installation of the ELGEF Plus system.



Easy and fast installation of the ELGEF Plus electrofusion coupler.

## Customer benefits

- Excellent support on securing reliable and detailed carbon footprint traceability throughout the whole process.
- Hassle-free and fast installation of ELGEF Plus couplers thanks to patented active reinforcement principle.
- Strong and reliable connections with automatic CNC butt fusion machines.
- 100% Ultrasonic NDT testing of the joints extends weld warranty and quality.
- High quality PE fittings ensure leak proof and durable connections and easy installability.

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