

ELGEF Plus electrofusion coupler

Permanent pipelines

Pipeline construction company Max Schetter AG,
Wittenbach, Switzerland

With the wide range of available accessories, large plastic pipes can be laid reliably.

New heat distribution network needs reliable pipes

To make waste heat from production plants available to other energy consumers, the operator energienetz GSG AG is connecting four companies in the St. Gallen-Winkeln industrial estate to a new type of combined heating network in an initial expansion phase. To ensure that the network of HDPE pipes can be operated reliably, attention is paid to the quality of the pipe connections during construction.

Project background

The company Max Schetter AG will build the low-temperature district heating network in the first project stage with a length of 1.8 km. The excess energy from a production plant is transported to the customers with 8–28 °C hot water as the carrier medium. The HDPE pipelines with diameters ranging from 110 to 450 mm have to be permanently connected safely and reliably into the individual industrial buildings – with as little effort as possible.

Selected technical solution

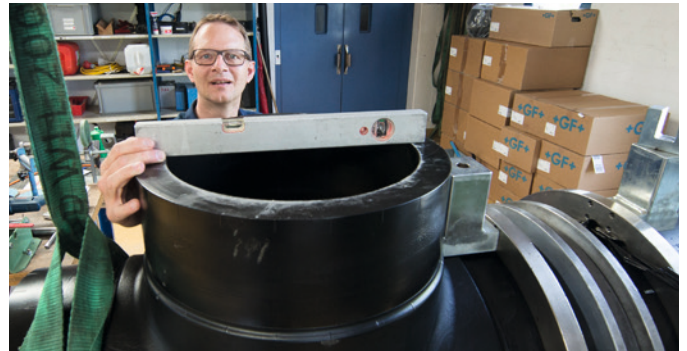
Max Schetter AG relies on fittings from GF Piping Systems for the assembly of the pipes, in particular the ELGEF Plus electrofusion couplers. This allows the various piping components to be connected quickly and reliably. An extra large inner diameter allows easy installation - even if the pipes are oval, as is normally the case. Since preheating or the use of additional equipment is not necessary, the installation time is also short.

Achieved improvement

A patented technology, active reinforcement, ensures the long-lasting and reliable connection of the pipes. For this purpose, the reinforcement ring is pressed over the inner ring with high forces during manufacture. During the welding process the heat reduces the stiffness of the inner ring, the reinforcement ring presses from the outside. This allows larger gaps to be closed more quickly and safely.



Installation of the components on site at Max Schetter AG.



Extra large inner diameter for easy assembly.

Customer benefits

- Easy installation with all common GF Piping Systems electrofusion units possible.
- Wide range of dimensions for fast and reliable connection of all common PE pipes.
- Groundbreaking welding indicators per fusion zone allow visual checking.
- For more information see the QR code on every label.

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