



Media Release

Schaffhausen

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SYGEF ECTFE by GF Piping Systems enables reliable water treatment at Merck & Cie.

Merck & Cie. is a subsidiary of the German group Merck KGaA and specializes in the Healthcare and Life Science sectors. The company uses plastic piping systems in water treatment applications to safely and reliably transport hazardous media. In 2022, Merck installed SYGEF ECTFE by GF Piping Systems.

Merck uses a special plant in order to treat a selection of wastewater with hazardous chemicals. While metal or polyethylene systems are usually selected for water treatment in the healthcare and life science sectors, the Swiss company decided to install SYGEF ECTFE by GF Piping Systems, a solution made of ethylene chlorotrifluoroethylene that has been specifically designed for an extended system life in applications requiring harsh chemicals.

Due to tight spaces, the complex layout of the existing polyethylene pipes had to be replicated as precisely as possible. Thanks to automated infrared welding machines (IR-A) by GF Piping Systems, all system components could be installed quickly and safely, and the strict deadline was met. The properties of the SYGEF ECTFE piping system now offer Merck an even longer lasting operation of their wastewater plant, while maintenance costs and downtime could be reduced.

Christian Schiefer, Global Product Manager SYGEF at GF Piping Systems, is pleased with the results of the project. "With SYGEF ECTFE, we were able to provide a complete solution that combines a number of important benefits for Merck. On one hand, ECTFE is an exceptionally resistant material that is suitable for most aggressive chemicals in combination with high process temperatures and pressures. At the same time, space-saving industrial short spigot fittings and unique jointing technology from a single source offer maximum system reliability with a best-in-class service life."

SYGEF ECTFE is an infrared-welded plastic solution that ensures maximum operational stability, and has been designed with a focus on human and environmental safety. During development, GF Piping Systems therefore carried out a wide range of product tests in compliance with ISO 10931, as well as chemical pressure tests in the main operational range between 0°C and 80°C using a variety of hazardous media.

Access the full reference case [here](#).

[Find out more about SYGEF ECTFE by GF Piping Systems.](#)

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GF Piping Systems

As the leading flow solutions provider for the safe and sustainable transport of fluids, GF Piping Systems creates connections for life. The division focuses on industry-leading leak-free piping solutions for numerous demanding end-market segments. Its strong focus on customer-centricity and innovation is reflected by its global sales, service, and manufacturing footprint and its award-winning portfolio, including fittings, valves, pipes, automation, fabrication, and jointing technologies.

GF Piping Systems has its own sales companies in 31 countries, which means it is always by its customers' side. Production sites in 36 locations in America, Europe, and Asia ensure sufficient availability and quick, reliable delivery. In 2022, GF Piping Systems generated sales of CHF 2'160 million and employed 8'085 people. GF Piping Systems is a division of Georg Fischer AG, founded in 1802 and headquartered in Schaffhausen, Switzerland.

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Picture



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Source: GF Piping Systems