



Media Release

Schaffhausen

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Improving energy efficiency in battery production

Intelligent piping systems with measurement technology make battery production sustainable and efficient

GF Piping Systems is exhibiting automation and measurement technology solutions for piping systems in the process industry at the Battery Show in Stuttgart. With a full portfolio of measurement, control, valves and actuation components, processes can be easily monitored and controlled. The smart solutions help increase the efficiency of media transportation loops and reduce operational costs and unplanned system failures.

Plastic piping systems and process automation capabilities help to safely and reliably transport water and chemicals in lithium extraction, material preparation and water and battery recycling process. The challenge for battery cell manufactories is to keep precise control over various parameters during production processes and ensure at the end consistent and reliable battery performance. To achieve the highest possible efficiency and safety, companies are therefore increasingly dependent on automation solutions to monitor, regulate, and analyze plants. With fully compatible overall solutions, processes become more efficient, more sustainable, and above all, future-proof. GF Piping Systems has been working on the further development of connecting solutions for decades and has made various piping systems smart, including fittings, butterfly valves or ball valves.

Process Automation - the right automated valve for every application

At GF Piping Systems you will find one of the most comprehensive valve product ranges, enabling the customer to always find the right match for the application. Automated valves are available in a wide selection of dimensions, materials, chemical resistances, standards, actuation, operation principles, and pipe connections, and they are designed for long service life.

Naturally, GF offers a whole range of all-plastic designs which are capable of withstanding harsh environments. A wide range of interoperable actuation possibilities and modular accessories complete the portfolio.

Accurate measurement is the basis for reliable process control

Measurement offerings also cover the needs of customers in the battery industry: including flow, pH, conductivity, level, temperature and various water quality parameters. Most sensors are available in plastic for the corresponding piping systems and are therefore highly resistant to chemicals, corrosion and abrasion. The plug-and-play measurement products are self-explanatory, easy to maintain, and offered with suitable installation fittings.

Precise control throughout your automation loop

The clever design makes life easy. All measurement devices can be connected with the same transmitter, a true multi-parameter controller, the 9950 Six-Channel Transmitter. Due to their modular design, additional functionalities such as batch control or communication technologies can be added anytime. The control products are simple to operate, have intuitive menu structures, and can be upgraded modularly.

Cyrus Ardjomandi, Business Development Manager Battery and Hydrogen, brings over 18 years of experience in water treatment to his leadership role for GF: "The top priority of Process Automation in battery production is to ensure a consistent high-quality result."

[Meet GF Piping Systems at Battery Show Europe in Stuttgart from 23 to 25 May 2023 in Hall 8, booth 8-F81.](#)

[Find out more about connections for life in process automation.](#)

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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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Pictures

