

Process Automation

A strong partnership for a cutting-edge surface equipment technologies

GALVABAU AG, Switzerland

Valve solutions and Process Automation by GF Piping Systems are fitted as standard in the solutions by Swiss company GALVABAU

Process Automation and full project support for the production of turnkey electroplating lines

Surface coating is an important step in the production of components for demanding industries such as aerospace, automotive, medical technology, or the manufacture of printed circuit boards (PCBs). During the electroless plating process, a surface layer of metal is applied to a non-conductive base material to prevent corrosion, improve hardness and solderability, or reduce friction. GALVABAU AG, a Swiss OEM based near Lucerne, specializes in turnkey coating systems and offers services ranging from planning and engineering to construction and maintenance.

Project background

GALVABAU's offerings cover individual modules and components all the way to full plating lines that are tailored to meet specific customer needs. Due to the complexity of the solutions, complete lines can take approximately one year to complete, with projects either being assembled on-site or prefabricated with a modular approach. GALVABAU puts a strong emphasis on safety, quality, and environmental protection, and therefore relies on suppliers that can meet the high standards of surface treatment for cutting-edge applications.

Selected technical solution

As many of GALVABAU's projects rely on closed water loops to transport ultrapure water or recycle materials from the plating process, the company requires safe, reliable, and automated flow solutions that can withstand challenging environments and aggressive chemicals such as nitric acid. For a recent ENIG line (Electroless Nickel Immersion Gold), GF Piping Systems therefore supplied manual and pneumatic diaphragm and ball valves made of chemical-resistant PP-H and PVDF, as well as transmitters and flowmeters to reclaim excess gold. In addition, GALVABAU received planning support through detailed CAD libraries during the project.

Achieved improvement

GF Piping Systems has been supplying piping systems, valve solutions, and Process Automation to GALVABAU for the past ten years and has provided comprehensive additional services. This close collaboration has resulted in the company integrating GF Piping Systems' products and CAD libraries as a core element of its planning process. "GF Piping Systems is a trusted partner that has been a part of our journey from small components to entire plating lines," comments Roman Bürgler at GALVABAU. "Their complete solution approach allows us to meet the high demands of our customers across industries."

Where next?



Plating lines require safe, reliable, and automated flow solutions to ensure the highest quality.



GALVABAU has integrated GF Piping Systems' CAD libraries and Process Automation portfolio into its planning process.

Customer benefits

- **Together as one: GF Piping Systems values long-term partnerships and is capable of supporting customers throughout all project phases**
- **GALVABAU benefits from a comprehensive portfolio of Process Automation solutions for the field-level**
- **A wide range of chemical-resistant materials allows customers in the chemical process industry to tailor flow solutions to their specific needs**



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