

Process Automation

Chemical mixing and dosing for 800 products

Caramba Bremen GmbH relies on Ball Valves and Smart Actuators by GF Piping Systems to transport a wide range of chemicals

Caramba installs 35 Ball Valves and Smart Actuators by GF Piping Systems

Caramba Bremen GmbH specializes in chemical solutions with a focus on industrial applications and vehicle cleaning. During production, the company uses 18 raw materials from storage tanks to create a total of 800 different products. To mix and dose 8 million kilograms every year, Caramba relies on thermoplastic piping systems, including the Ball Valve 546 Pro and Smart Actuators by GF Piping Systems.

Project background

Caramba has been using GF Piping Systems' ball valves at their facility in Bremen for over 20 years. When two new batching boilers with a capacity of 10 cubic meters and 15 tons were installed in 2022, the decision was made to also overhaul the piping system. As Caramba already uses valves by GF Piping Systems to transport raw materials from storage tanks to the production area, the company decided to implement the Ball Valve 546 Pro and the Smart Actuator.

Selected technical solution

The Ball Valve 546 Pro is a 2-way valve designed for use in simple water applications all the way to complex processes in the chemical, microelectronics or food and beverage industry. It features a lockable lever for added safety, a Data-Matrix-Code for full traceability, as well as modular design that enables long-term sustainability. A reinforced security break point also allows the coupling piece to be quickly replaced without interrupting production. The electric Smart Actuator is compatible the Ball Valve 546 and adds features such as NFC and WiFi connectivity, colored LED feedback showing its current status as well as an App that allows it to be controlled remotely and visualizes diagnostic information.

Achieved improvements

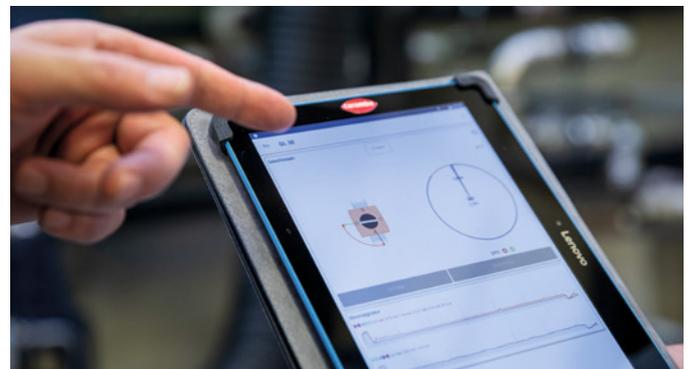
In total, Caramba installed 35 ball valves and actuators which introduce a number of benefits. First and foremost, the solution increases process and work safety thanks to the visual position feedback and automated actuation. With Process Automation, the installation can be controlled, monitored, and analyzed. High quality, long-lasting materials and efficient project support also contributed to Caramba's decision to install products by GF Piping Systems. As a result, products by the Swiss flow solutions provider are now installed throughout the plant, from the raw material storage facility to the filling station.

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The combination of the Smart Actuator and Ball Valve 546 Pro ensures a high level of safety and automates the production of 800 chemical formulas.
Source: GF Piping Systems



The Smart Actuator can be monitored, controlled, and analyzed remotely.
Source: GF Piping Systems

Customer Benefits

- **The Smart Actuator allows valves to be monitored and controlled remotely, while visual feedback indicates the current position and status**
- **The modular design and corrosion-free materials of the Ball Valve 546 Pro in combination with the Smart Actuator enables a future-proof long-lasting operation**
- **The Ball Valve 546 Pro and Smart Actuator from a single source ensure maximum compatibility**