

NeoFlow pressure regulating valve

Efficient and reliable pressure management for beverage production

+GF+

Swiss beverage producer Pearlwater relies on NeoFlow, the pressure regulating valve by GF Piping Systems.

NeoFlow supports the production of 100 million liters of bottled beverages per year

Pearlwater, a company based in the Swiss Alps, has been bottling water for many years and is known for products with high levels of magnesium and calcium. To ensure a safe and hygienic production of 100 million liters per year, Pearlwater requires process tanks that need to be refilled in a precise and reliable manner. To ensure the highest quality and reliability, the company chose NeoFlow, the pressure regulating valve (PRV) from GF Piping Systems.

Project background

With a total of five springs and an output of 600 litres per minute, efficient water management is crucial for Pearlwater, which bottles around 100 million litres of mineral water and soft drinks every year. As part of the production process, large tanks that are controlled by solenoid valves and feature a free outflow need to be refilled regularly with the help of a pressure regulating valve. The previous PRV was noisy and oversized for the application. In addition, it was labor-intensive and expensive to maintain due to its high weight. Therefore, Pearlwater decided to implement a DN50 NeoFlow valve by GF Piping Systems.

Selected technical solution

NeoFlow was ideally suited to address the issues Pearlwater faced with the old valve, as its polymer body is up to nine times lighter and five times more compact than traditional metal valves. It features an axial flow design which ensures a stable flow from 1% to 100% opening, even at a small operating differential. This also significantly reduces the complexity of the valve as it does not require an actuator stem or diaphragm. During operation, Pearlwater also benefits from NeoFlow's corrosion-free materials which increase longevity and reduce maintenance requirements.

Achieved improvement

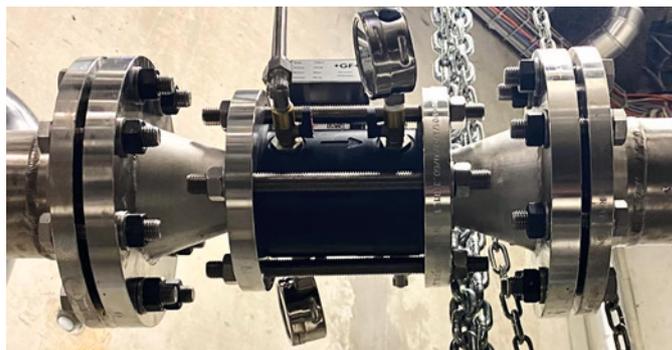
As the DN100 supply line was too large, it was modified with a chrome steel DN50 reduction before the installation. Once the main challenge of removing the old heavy valve was complete, NeoFlow could be implemented quickly and without any issues. Thanks to its better suitability it allows the tanks to be filled more precisely while its materials combine a long service life with a hygienic operation and increased efficiency. Pearlwater is pleased with the results of the project: "GF Piping Systems supported us with customization services and the selection of materials during the planning phase as well as on-site during the commissioning of the new NeoFlow PRV. And, thanks to its simple construction, we can conduct any maintenance work ourselves."

Your contact

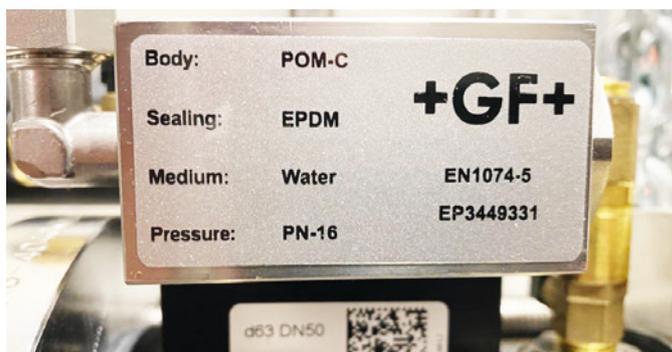
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Co-developed with OFUI



Thanks to a reduction from DN100 to DN50, a far more lightweight and compact NeoFlow PRV could be installed at Pearlwater.



In addition to increased efficiency and minimized maintenance costs, Pearlwater benefitted from the customizability of the materials.

Customer Benefits

- NeoFlow's axial design offers an effective pressure management for a wide range of operating conditions and applications
- Reduced complexity and corrosion-free materials minimize maintenance requirements and costs
- By offering full project support, GF Piping Systems ensures an easy and safe installation

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