

## Valve Solutions

# Reliable flow control for safe swimming pool operation

Schlossbadi Frauenfeld, Switzerland

Holistic valve solutions, including a test installation of the thermoplastic Butterfly Valve 565 Big in DN 400, support reliable operation for state-of-the-art swimming pools.

# Proven performance: Successful installation of the Butterfly Valve 565 Big

Schlossbadi Frauenfeld is a modern, year-round swimming facility with high standards for water quality and operational safety. During the construction of the new complex, the operator chose durable, proven valve solutions from GF for water treatment and distribution. Alongside the installation of numerous industrial valves, the site also served as a real-world test environment for a new product: the thermoplastic Butterfly Valve 565 Big in DN400.

## Project background

Since opening in January 2024, Schlossbadi Frauenfeld has operated a large-scale water circulation system, moving around 6,800 m<sup>3</sup> of water per day across its indoor and outdoor pools. The full water volume is renewed roughly every 1.5 hours. Maintaining this level of performance requires dependable valve and piping solutions throughout the entire system. This is particularly important in critical areas such as the suction pipes of the sports pools, where components must work reliably at all time, even after extended shutdowns like the winter break, to support a safe, trouble-free restart.

## Selected technical solution

For this project, approximately 800 valves, including ball, butterfly and diaphragm valves, were installed, along with approximately 5.5 kilometers of ecoFit and ELGEF Plus piping components from GF. The setup includes manual and actuated ball valves from the 546 Pro and 542 series, diaphragm valves, metal and thermoplastic butterfly valves like the type 565, and VAG gate valves. As part of a field test during the development of the extended product range, the new Butterfly Valve 565 Big (DN400) was also installed on the suction pipe of the sports pool. This valve was specifically designed for large-diameter applications above DN300.

## Achieved improvement

The installation of the Butterfly Valve 565 Big demonstrated strong reliability under real operating conditions. Even after extended periods of inactivity, the valve operates smoothly without jamming, effectively resolving a known issue in day-to-day operation. Combined with automated water treatment control, the corrosion-free design reduces maintenance efforts, supports stable flow conditions, reduces the need for manual intervention, and contributes to safer, more efficient pool operations overall.

\*DN450 – DN600 available soon



A wide range of manual, manual and actuated valve solutions from GF regulates the filter systems.



Successful underground test installation of the Butterfly Valve 565 Big in DN400 in the outdoor area of the Schlossbadi.

## Customer benefits

- **Reliable operation:** Smooth valve operation even after long shutdown periods
- **Low maintenance:** Corrosion-free materials reduce servicing and manual effort
- **Stable performance:** Consistent flow supports safe, efficient pool performance

## Where next?



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