

Butterfly Valve 565

Reliable lightweight for future-proof swimming pool technology

Customer reference: Appenzell indoor pool, Switzerland

Reliable technical and economical solutions
for water treatment in swimming pools with
the plastic Butterfly Valve 565

Plastic butterfly valves for perfect swimming pool technology

In Appenzell in Switzerland, a new indoor swimming pool and wellness area was opened in summer 2022. Impeccable water quality is the prerequisite for fun and carefree swimming. Durable plastic Butterfly Valves 565 from GF Piping Systems ensure a level of reliability and economy unseen to date.

Project background

The old indoor swimming pool in Appenzell needed to be modernized for technical safety reasons. As the client, Canton of Appenzell placed great importance on an innovative, sustainable concept as well as economical lifecycle costs. After just four years of planning and construction, the new indoor pool was created: The two-story wooden building houses a swimming pool with a deep section for diving, a multi-purpose pool with a height-adjustable floor, a play pool with a slide and water games, a hot tub in the outdoor area, and a wellness area.

The technical solution chosen

To ensure the constant availability of clean, fresh pool water at the desired temperature in all of the pools, the very latest technology was used in Appenzell for treatment of the swimming pool water. The Butterfly Valve 565, flow meters and the piping system made from PVC-U and ecoFIT (PE) guarantee the reliable operation of the in-feeds and out-flows, as well as of the filter system. Thanks to including 100 pneumatic and manually operated valves, it was also possible to reduce installation and operating costs. As a result of its low weight, the Butterfly Valve 565 can be installed by a single person in just a few minutes, and positioners help to guarantee an automated water treatment process.

Improvements achieved

The plastic valves are resistant to corrosion and swimming pool water. Repair costs are low even in demanding conditions, and few operating interruptions are required. Since procurement costs are comparable with those of metal solutions, the Butterfly Valve 565 beats its metal competitors thanks to its superior materials and design, thereby lowering overall costs. In comparison to metal valves, the Butterfly Valve 565 causes up to 26% fewer greenhouse gas emissions if the same working life is achieved. If you consider that the life cycle of metal butterfly valves is up to three times shorter, around 75% of greenhouse gas emissions can be saved. This has been confirmed by an LCA (= Life Cycle Assessment).



Precise flow rate adjustment for swimming pools with the plastic Butterfly Valve 565.



Magnetic-inductive flow meters monitor reliable operation.

Customer benefits

- **Durability:** corrosion-free and resistant to pool water
- **High functionality:** does not jam and seals reliably
- **Lower weight:** 60% lighter than metal butterfly valves
- **Economical:** low maintenance costs and fewer interruptions to operations
- **EPD (= Environmental Product Declaration) available**

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