

Process Automation

Effortless operation for swimming pools

Customer reference: Aquacenter Obwalden, Switzerland

Aquacenter Obwalden selected pneumatic diaphragm valves and flowmeters by GF Piping Systems for automated flow control.



Process Automation by GF Piping Systems ensures reliable flow control

Swimming pools fulfill a number of different purposes, from family relaxation to athletic training. However, all visitors have one thing in common: They want an enjoyable and uninterrupted experience. Aquacenter Obwalden, a facility based in Kerns, Switzerland, therefore uses modern piping technology to reliably keep its swimming pools and attractions such as a water slide in continuous operation. During a renovation, the operators decided to improve the control loop by installing Process Automation solutions by GF Piping Systems.

Project background

The water slide must run smoothly, no matter how many visitors are in the facility at any given time. Because of this, Aquacenter Obwalden uses a storage tank that is connected to the slide. In order to ensure the correct levels, the facility relies on Process Automation to control the level of the tank with filtered water. After positive experiences with the Butterfly Valve 565 and Pneumatic Actuators by GF Piping Systems in the filtration system, the decision was made to also install the pneumatic Diaphragm Valve DIASTAR Ten as well as the FlowtraMag 2581.

Selected technical solution

The DIASTAR Ten features a full plastic design and only has one central housing nut. This construction makes the valve corrosion-resistant and maintenance-free while the patented valve body has been optimized for a doubled flowrate, linear flow characteristics, and minimized dead space for maximal hygiene. In addition, Aquacenter Obwalden combined the valve with the Electro-pneumatic Positioner SPC (Stroke Process Controller) with integrated diagnostic functions. The FlowtraMag 2581 is a full-bore plastic in-line style magnetic flow meter designed for high accuracy flow measurement in short pipe runs. Bluetooth connectivity allows the 2581 to be configured remotely.

Achieved improvement

During the renovation project, the lightweight components were easy to handle and install. And, just like the previously installed Butterfly Valve 565s, the longevity of the new components has led to a reliable and continuous operation of the facility. Combined with low maintenance requirements, this makes the pneumatic Diaphragm Valve DIASTAR Ten and FlowtraMag 2581 a cost-effective solution for the operators. Thanks to the seamless integration into the existing automation loop, the system ensures precise tank levels at all times and therefore an uninterrupted bathing experience for visitors. At the same time, the Bluetooth connectivity of the FlowtraMag 2581 adds convenience as the flowmeters, which are installed under the ceiling, can be easily accessed with a smartphone.

Where next?



Reliability, longevity, and cost-effectiveness are important criteria for Aquacenter Obwalden.



The operators were convinced by the comprehensive actuation and connectivity options of the pneumatic Diaphragm Valve DIASTAR Ten and FlowtraMag 2581.

Customer benefits

- **Aquacenter Obwalden is benefitting from corrosion and maintenance-free components that have been seamlessly integrated into the facility's automation loop.**
- **The pneumatic DIASTAR Ten and FlowtraMag 2581 combine long-lasting materials with modern connectivity and actuation, making them ideal for swimming pools.**
- **GF Piping Systems offers complete and customizable Process Automation solutions for various applications.**



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