



Water treatment plant, Hallau / Switzerland

Quality, efficiency and long-term reliability
with InterApp



InterApp Butterfly valves

InterApp Ball valves

AVK Gate valves

AVK Swing check valves

Bermad Pressure control valves

Orbinox Gate valves

DESIGNED TO ACCOMMODATE



21,000 residents

FEED RATE



74 to 240 l/s

SLUDGE VOLUME



6,500 m³/year

GAS YIELD



170,000 m³/year

HEAT AND POWER PLANT ENERGY PRODUCTION



300,000 kWh/year

ENERGY CONSUMPTION



780,000 kWh/year

After 36 years of operation, the Hallau water treatment plant, which purifies waste water from the municipalities of the Klettgau waste water association, has been completely renovated. Quality, efficiency and long-term reliability were among the main requirements for the new system – which is why butterfly valves and other InterApp products were selected for inclusion. The system was successfully launched in the spring of 2014 after a two-year renovation period.

The Klettgau association, which is responsible for water sanitation for the entire region, decided in April 2012 to expand all the mechanical and biological treatment steps, which also included the full range of sludge treatment and its processing. The new plant has been designed to operate for the next 20 years and service 21,000 inhabitants. The feed rate depends on weather conditions and can range from 74 to 240l/s. The resulting sludge, which can amount to 6,500 m³ per year, produces 170,000 m³ of gas annually for driving a generator, which in turn produces 300,000 kWh of current per year. These statistics correspond to a net coverage of approximately 40 %.

In addition, the entire waste water treatment plant is equipped with state-of-the-art control technology. From now on, all processes can be adapted to the inflowing waste water load and a variety of weather conditions, and can be automated 24/7. Collected signals and measurements not only provide valuable information for optimizing current operations, but also ensure that any faults can be immediately identified and quickly rectified. All areas of the waste water system have not only been extended to provide more power and efficiency, but have also been

upgraded to the latest technical standards and adapted to meet current safety and maintenance regulations.

Efficient processes, superior quality and long-term reliability are the main requirements for the sophisticated plant operations. After extensive analysis, the waste water association decided to include InterApp products in its operations. Gate and knife-gate valves, butterfly valves, ball valves and pressure control valves are used in the plant operations – for example in the pumping station, the aeration basin and in the combined heat and power plant. From the project phase through to final installation, collaboration with the planning office and the Klettgau waste water association was exemplary and confirmed that working with a reliable and internationally experienced partner paid off for the region.

After an intensive two-year construction phase, the plant was successfully commissioned in the spring of 2014 – and is once again ready to collect and purify the domestic, commercial and industrial waste water from the catchment area of the Klettgau waste water association for the coming decades.



InterApp is a subsidiary of the international AVK Group and develops, produces and distributes valves and valve systems. As a customer-focused technology and project management company, InterApp supplies the most innovative fluid technology solutions for the most sophisticated applications and industry sectors in the world.

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