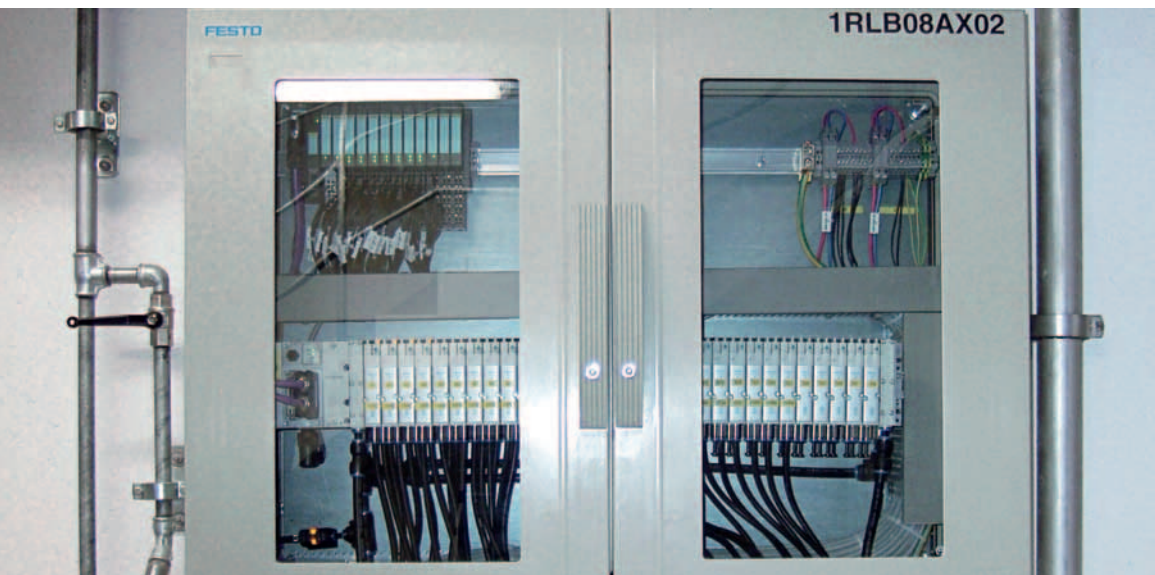


Automation of a treatment system for return water

FESTO



Water/Wastewater

Biotech/Pharma

Food & Beverage

Chemicals

Petrochemicals

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Energy

Mining

Customer information

The waste water treatment plant in Werdhölzli, Zürich serves approx. 670,000 inhabitants, making it the largest waste water treatment plant in Switzerland. Before the construction of the new treatment system, the return water from the sludge treatment and dewatering process was passed on directly for biological cleansing without pre-treatment. The new treatment system reduces the generation of waste water (containing ammonia and nitrogen) within the plant and thus reduces the burden on the downstream biological cleansing stage by around 95 %. Furthermore, less hazardous material is discharged into the local river Limmat. The installation of Festo automation products contributed to the success of the project.

Task

- Reliable automation of reflux water treatment system to reduce the burden on local waterways
- Reliable control of 45 pneumatically actuated non-return valves
- Cost-effective automation, fast commissioning and low installation costs

Solution

- Reliable automation achieved through installation of two control cabinets with valve terminals type MPA/CPX, each with 28 valves
- Low on-site installation costs, thanks to pre-assembled modules
- Fast on-site commissioning using Profibus FB13 fieldbus protocol
- Dependable operation of the new system enables internally generated waste water to be reduced by around 95 %, thus reducing the burden on the downstream biological cleansing stage

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