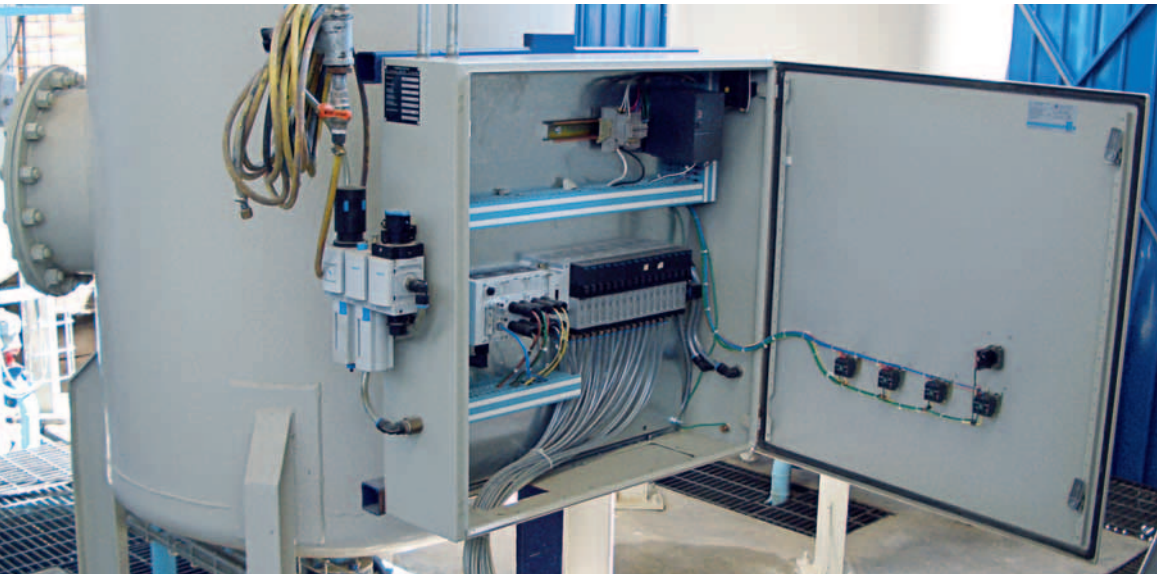


# Automation of filtration system in a water plant

# FESTO



Water/Wastewater

Biotech/Pharma

Food & Beverage

Chemicals

Petrochemicals

Oil & Gas

Pulp & Paper

Energy

Mining

## Customer information

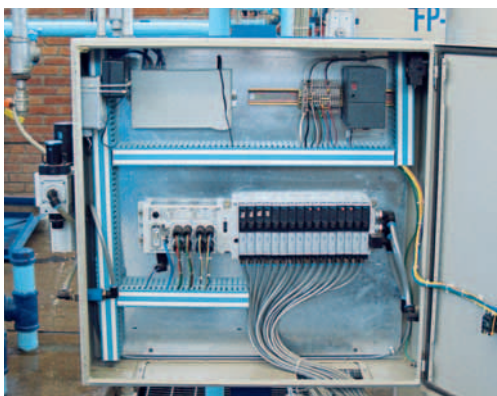
In the small town of Tlahuac to the south-east of Mexico City, a small water plant was built to supply the community with fresh drinking water and a hospital with pure water. The new flexible water plant with an integrated reverse osmosis system is equipped with high technology equipment and has more than fulfilled the tasks. The efficiency of the plant is higher than expected so that the overproduction can be sold as bottled water.

## Task

- Automation of 8 closed sand filters
- To select suitable butterfly valves with double acting actuators and limit switches for controlling the inlet and outlet of the filters
- To design control cabinets with modular valve terminals with Ethernet and fieldbus for controlling the process valves and actuators
- To create an option of controlling the filter backwash times via a front end display

## Solution

- Installation of 28 wafer type butterfly valves of different sizes with double acting DRD-actuators and sensorbox DAPZ with microswitches for reliable control of the inlet and outlet of the filters
- Use of special sensor boxes with 3 microswitches for stopping the valve in one intermediate position
- Design of 2 control cabinets with a CPX-MPA valve terminal using Ethernet interface
- Design of 4 control cabinets with a CPX electrical terminal and Midi-Valves using Ethernet interface
- Package ranging from process valves to valve terminals with fittings and all other accessories via one-stop-shopping at Festo



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