

Partner to the Process Industry

Automation of sludge treatment and gas production in sewage treatment plant

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Customer information

The Psytalia Wastewater Treatment Plant which is situated on an island has been built for cleaning the waste water of 5.000.000 inhabitants of the Greek capital Athens. In order to ensure that the plant is able to operate reliably for many years, the construction companies chose pneumatics from Festo as the automation technology. Particularly for the area of sludge treatment and gas generation where safe and explosion-proof installations are necessary.

Task

- Safe control of ball valves and butterfly valves in gas production area
- Explosion proof position indication/feedback
- Control of butterfly valves for distributing hot water to heat exchangers to maintain a temperature of 33 °C.
- Pneumatic control of knife gate valves in sludge transport area
- Control of the actuators via valve terminals installed in cabinets outside of ex-zone
- Good air preparation plus delivery of all additional accessories.

Solution

- Installation of 40 safe, maintenance free pneumatic quarter turn actuators type DRD on the various types of process valves
- Actuators equipped with explosion proof pneumatic sensor box for position indication and feedback signal
- Linear actuator DLP for On/Off operation of the knife gate valves
- Reduced wiring and piping costs due to installation of Type 03 valve terminals mounted into control cabinet
- Installation of five LDF adsorption dryers which prevent corrosion and wear at the driven actuators.



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