

Experience in pneumatics

WTP – Compressor Management, Indonesia



Water/Wastewater

Biotech/Pharma

Food & Beverage

Chemicals

Petrochemicals

Oil & Gas

Pulp & Paper

Energy

Mining

Customer information

Pejompongan WTP is one of four plants operated by PT. PAM Lyonaise Jaya (PALYJA), a subsidiary of the SUEZ group, to meet the public demand for water in the south and western parts of Jakarta. Pejompongan 2 WTP is equipped with 34 sand filters with butterfly valves for inlet, outlet, sludge drain, backwash and air scouring, all of which are operated via pneumatic actuators. The plant was built in 1965 to achieve a total capacity of approx. 3600 liters per second.

Task

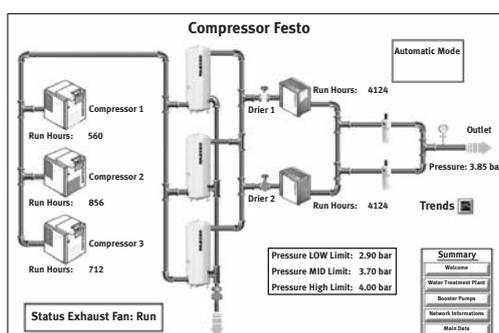
Over the years, many problems were encountered regarding the reliability of the compressed air supply. Once the pressure drops, all 45 pinch valves in the sludge drain are opened simultaneously whilst producing water. A further problem was caused through water and oil contamination in the piping network, which sometimes caused rust and leakages. It was also noisy due to the three piston compressors, which produced a sound level unacceptable to the human ear.

Solution

As Festo developed the compressor system in Cilandak Plant, the customer turned to Festo because of its experience in pneumatics. It needed a solution regarding a compressed air management system and piping network. Festo supplied compressor management systems include CPX-MPA, SDE, FED, MS6, DAPS, VAPB and also 3 compressors, 2 driers, and a piping network. The customer developed their own TopKapi SCADA to access their CPX. Now the air pressure and supply are more stable, Palyja can now be relied upon as a main city water supplier, including supply to the F-ID office.

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