

Modernisation of the filter bed outlet in a waterworks

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Customer Information

ISKI (Istanbul's water authority) has been operating the Muradiye waterworks for 17 years – one of Turkey's largest waterworks which processes approximately a million m³ of drinking water each day. Festo modernised the outdated hydraulic system of valves at the filter intake and outlet (which demonstrated significant disadvantages) with an intelligent electro-pneumatic positioning solution. Maintenance costs and time have thus been reduced by 90% – and the water quality has been verifiably improved.

Task

Large amounts of chlorine are used to disinfect the water. The equipment used in the basin is thus subject to considerable stress, which makes frequent maintenance necessary. Modernisation was thus intended to accomplish the following:

- Easy operation and maintenance
- Reduced operating and maintenance costs
- Improved water quality by means of a reliable system process
- Quick reaction in case of emergencies
- Flexibly expandable automation structure

Solution

Provision of the following corrosion resistant complete package:

- Twelve DLP-160-600-SA linear valve actuators with anodised aluminium piston rod (resistant to chloric acid)
- Twelve positioning controllers with continuous displacement monitoring for improved water quality
- Twenty-four MFH-3-1/8 solenoid valves
- Twelve PVC control cabinets with FEC 620 and FED 50, expandable for communication via Ethernet
- Twenty-four PVC fill-level sensors
- Engineering and software

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