

PROFOX actuators proven in Cape Town wastewater treatment

Zandvliet wastewater treatment plant, Cape Town, South Africa

AR22002 | AUMA APPLICATION REPORT

AUMA PROFOX actuators ensure reliable and precise dosing of flocculent at Zandvliet wastewater treatment plant in Cape Town, South Africa. Zandvliet is one of the first plants worldwide to be equipped with the new PROFOX actuators. The customer is particularly happy with their reliability and outstanding configuration flexibility.



MAJOR EXPANSION PROJECT

Zandvliet plays a major role in Cape Town's wastewater treatment. The City of Cape Town initiated a comprehensive expansion and modernisation project for the plant to meet the needs of a rapidly growing population and increasingly stringent requirements for water quality. To aid the removal of fine solids in new settlement basins the plant operator was looking for small and reliable actuators for the automated delivery of flocculent.

SMALL AND RELIABLE

The small and lightweight PROFOX actuators were a perfect fit for the small-diameter flocculent dosing pipes and the space constraints. Local service experts from AUMA South Africa installed and commissioned 23 PROFOX actuators in July 2021. Since then, the PROFOX actuators have been operating reliably and failure-free.

OUTSTANDING CONFIGURATION FLEXIBILITY

The plant operator was particularly impressed with how easily and flexibly all the operating parameters could be adapted to the requirements of the application. Control parameters such as operating time and motor speed, for instance, can be easily adjusted using a smartphone or laptop. Just a few clicks in the AUMA Assistant App or the AUMA CDT software are needed to configure the digital inputs and outputs for the operation commands and feedback signals, and parameters such as the actuator's direction of rotation. Even the colours that the FOX-EYE indicator light uses to show the different operating states were adapted to match the customer's requirements.

Only a few mouse clicks are needed to configure PROFOX digital inputs and outputs, and other operational parameters, to meet the exacting requirements of the customer.

Signal DOUT 1	End position CLOSED (259)	Fault (79)
Signal DOUT 2	End position OPEN (258)	End position CLO
Signal DOUT 3	Fault (79) ▼	End position OPE
Coding DOUT 1	High active (0) ▼	High active (0)
Coding DOUT 2	High active (0) ▼	High active (0)
Coding DOUT 3	Low active (1) ▼	Low active (1)
Closing rotation	Counterclockwise rotation	Clockwise rotatio



WATER

APPLICATION

Wastewater treatment

AUMA SOLUTION

- > PROFOX PF-Q80
- > PROFOX PF-Q150

CUSTOMER BENEFITS

- > Utmost reliability
- > High configuration flexibility

"Since their installation in July 2021, the PROFOX actuators have been operating reliably and failure-free."

Mark Mijatovic
AUMA South Africa

Project responsibility:
AUMA South Africa

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