

Case Study

Essential control of water at water treatment works is provided by Rotork technology

Industry: Potable Water
Client: Maundown Water Treatment Works, Wessex Water, UK
Product: IQ, IQT, Profibus

Summary

As part of a project to upgrade water treatment facilities, meet an increased demand for water and improve the quality of drinking water to customers in central Somerset, Wessex Water required an upgrade of flow control at Maundown Water Treatment Works. Rotork provided over 200 Profibus-enabled intelligent electric IQ valve actuators.

Overview

Maundown Water Treatment Works invested in a £25 million project to improve the quality of water supplied to over 200,000 customers in central Somerset. The site treats water from Wimbleball and Clatworthy reservoirs.

Challenge

Maundown Water Treatment Works was originally built in the 1960s and first extended in the early 1970s. The site has recently been entirely redeveloped to further improve the quality of drinking water, upgrade the water treatment facilities and meet the increased demand for water from the

200,000 customers served in central Somerset and required flow control systems to deliver this effectively.

Solution

More than 200 PLC controlled, Profibus-enabled Rotork intelligent electric valve actuators have been installed throughout the £25 million project at Maundown. These IQ and IQT actuators operate penstocks and butterfly valves to control the flow of water and sequential backwashing operations throughout the new state-of-the-art treatment plant, comprising raw water screening, dissolved air flotation, rapid gravity filtration and granular activated carbon treatment followed by chlorine contact tanks.





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Customer Benefits

The upgrade increased the treatment capacity of the plant to 82.4 mega litres a day.

The improved treatment processes overcame taste and odour problems caused by increased algal blooms in the local water sources resulting from changing weather patterns.

IQ actuators offer the utmost in reliability and efficiency, assisting in the smooth running of the site and the delivery of safe drinking water to the residents of central Somerset. They offer water ingress protection (essential in a water application) and are IP66/68 certified at 30 metres for 10 days.