

Case Study

Corrosion resistant flow control provided by IQ actuators at New Zealand water treatment plants



Industry: Potable Water Treatment

Client: Matamata-Piako District Council, New Zealand

Product: IQ

Summary

Rotork IQ and IQT actuators were fitted on several water treatment plants in New Zealand, in an update from pneumatic to electric flow control.

Overview

Three large water treatment sites in Morrinsville, Matamata-Piako and Te Aroha, as well as smaller sites in Te Poi, Hinuera and Te Huna, provide drinking water to all residents of Matamata-Piako and the surrounding district.

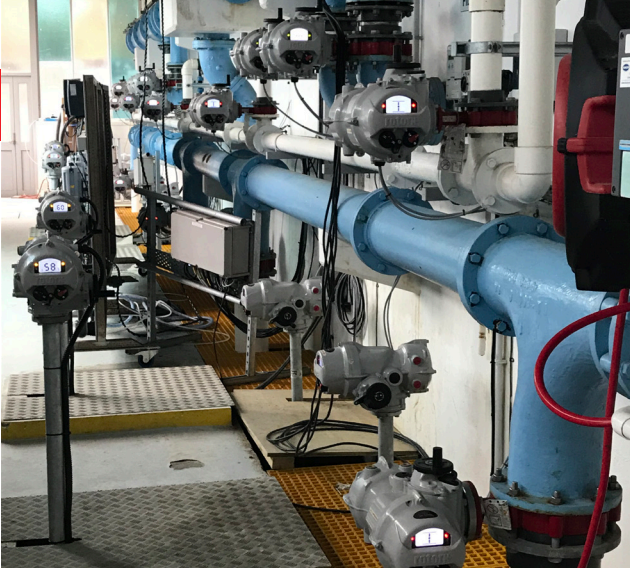
Challenge

The existing pneumatic actuators that provided several types of flow control had continual problems with sticking caused primarily because of the damp, chlorinated atmosphere in which they were operating. This caused degradation to the aluminium actuator body. A new reliable system was required and due to the sites being operated remotely, engineer safety when dealing with any breakdowns was a prime concern.

Solution

A solution was designed using Rotork IQT and IQS actuators. Rotork supplied these with stainless steel pedestals where required. The supplied IQ actuators provide control of filters, as well as the chemical dosing and storage of potable water.





Customer Benefits

The use of electric actuators will reduce the Matamata Piako District Council's energy bill, as they will no longer have to power compressors to provide an air supply to pneumatic actuators.

The new actuators allowed for reduced operating noise and provide additional process and valve diagnostics via the HMI.

IQ actuators offer corrosion resistance, negating any degradation problems that the damp, chlorinated atmosphere caused the previous pneumatic actuators.

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