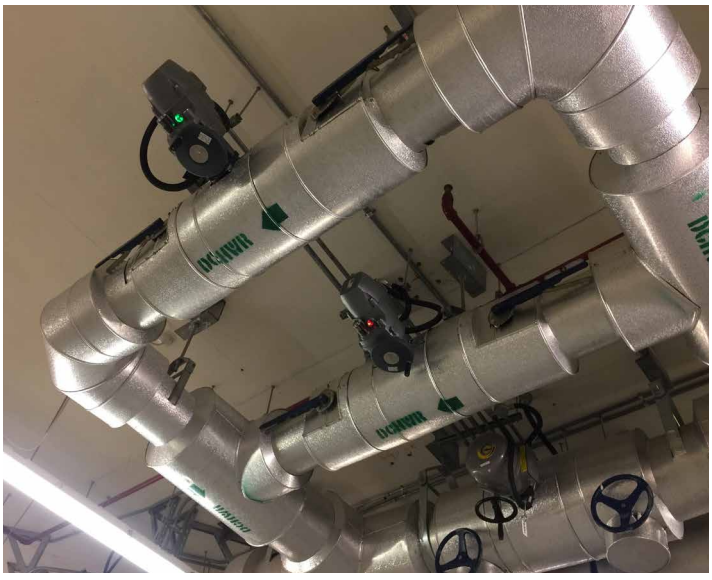
Reliable chilled water supply

Qatar Cool, Doha, Qatar

AR21002 | AUMA APPLICATION REPORT



AUMA PROFOX actuators are proving themselves in the district cooling network of Qatar Cool. The smart and compact actuators secure the chilled water supply to a block of buildings.

PREVIOUS ACTUATORS WERE NOT UP TO THE JOB

Qatar Cool, one of the leading district cooling suppliers in the Middle East, was looking for a reliable actuation solution for chilled water supply in its district cooling network on Pearl-Qatar, an artificial island close to Doha, Qatar.

Qatar Cool needed a replacement for third-party actuators which did not stand up to the process conditions. Although these actuators were only a few years old, failures in the actuator electronics were frequent, and the hard plastic gears were worn out and could no longer deliver the required torque. Moreover, local operation was not possible as the actuators are mounted in positions that are hard to reach.

PROFOX ACTUATORS MEET ALL REQUIREMENTS

PROFOX actuators proved to be the perfect solution for the requirements of Qatar Cool, thanks to their high-quality, high-precision mechanics and their innovative design.

A key benefit for the customer is easy operation of the actuators via Bluetooth, using the AUMA Assistant App. This means that the actuators can be easily operated locally, even though they are installed at a height that is difficult to access. In addition, the FOX-EYE indicator light clearly shows the actuator status, even from a distance. The PROFOX actuators also provide numerous feedback signals that the customer uses for process supervision.

TECHNICAL DETAILS

Five PROFOX PF-Q300 part-turn actuators are currently in operation at Cool Qatar. They control the supply of chilled water from the district cooling network to the main heat exchanger of one of the connected buildings. The PROFOX actuators are mounted on butterfly valves connected in parallel. All actuators operate in modulating duty, controlled by 4–20 mA signals.

WATER

APPLICATION

District cooling

AUMA SOLUTION

> PROFOX PF-Q300

CUSTOMER BENEFITS

> Reliable and robust mechanics and electronics
> Remote local operation via Bluetooth
> FOX-EYE indicator light for actuator status
> Digital outputs

Project responsibility:
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