

# Rotork delivers all-electric solution for removal of water at Romanian gas plants

**Industry:** Midstream - Pipelines

**Client:** Romgaz, Romania

**Product:** IQ, CVA

### Summary

Rotork actuators provided an all-electric specification for valve control on new gas dehydration units at seven sites in the Transylvanian region of Romania.

### Overview

Romgaz, the largest natural gas producer in Romania, is responsible for the production of around 40% of the country's consumption. Dehydration plants use triethylene glycol to remove the water from natural gas in to prevent downstream processing problems (such as freezing, corrosion and the formation of hydrates).

### Challenge

The specification ruled out the use of air instruments and compressors. This dictated the use of explosionproof electric actuators for isolating and control valve duties in the hazardous areas.

### Solution

Rotork supplied ATEX certified IQT isolating valve actuators and CVA control valve actuators. The electrical supply to the dehydration units is secured by means of a three-tier fail-safe system comprising mains power supported by a 30kVA uninterruptable power supply and a 45kVA natural gas powered generator.

Centralised control is provided by a Cytect SCADA system and ABB plc, housed in a control room adjacent to each plant. In addition, an Eex-e certified PC with mimic panel and identical graphical interface is located within each plant, enabling operators to work on the system in the field as well as the control room.



### Customer Benefits

This is a key stage of the journey of natural gas. These sites now benefit from precise and accurate control.

The CVA actuators installed offer a highly accurate and responsive method of automating control valves, without the complexity and cost of a pneumatic supply. The IQ is also an electric actuator.

Both designs feature intrinsically safe, non-intrusive setting and configuration technologies.

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Rotork plc  
Brassmill Lane, Bath, UK  
tel +44 (0)1225 733200  
email [mail@rotork.com](mailto:mail@rotork.com)

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