



Case Study

CVA actuators provide precise control in mineral grading process

Industry: Mining

Client: Mineral Engineering Processes (MEP)

Product: CVA

Summary

Rotork CVA electric control valve actuators have been specified for critical flow control duties on heavy-duty mineral processing machinery.

Overview

A product from Mineral Engineering Processes (MEP) called the TBS Hydrosizer is used in the mining and mineral process industries throughout the world to separate materials, remove contaminants and beneficiate mineral particles that are generally less than 5 mm in size.

Challenge

The TBS Hydrosizer process uses an upward current of water to create a hindered settling classifier in which material within a narrow size band can be held in a state of 'teeter' and dealt with according to size. A constant flow of upward current water must be maintained.

Solution

The constant flow of material is achieved by means of a 4-20 mA signal from a hydrostatic density probe within the Hydrosizer Tank, which controls the CVA actuator operation. The CVA then adjusts the position of a valve, allowing material to discharge as necessary.



Customer Benefits

With high levels of resolution and repeatability, the swift response and positional accuracy delivered by the CVA actuator enhances the efficiency of the process. Integral super capacitors enable fail-safe operation of the CVA to close the valve on loss of mains power or loss of control signal to prevent any damage or contamination.

The CVA's rugged construction and double-sealed IP68 watertight enclosure is designed to withstand the harsh and exposed environments often encountered in the mining and mineral industries.

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