

## DEZURIK ROTARY CONTROL VALVES FOR RAFFINATE FLOW CONTROL IN HEAP LEACH PAD



Raffinate Control - 2" RCV 317 stainless construction, full flow trim, PowerRac actuator, P201 positioner

A South American Copper mine required an accurate control valve for acid raffinate control. In this hydrometallurgical process, a liquid medium is used to extract precious metals from the ore. Acid raffinate, a diluted sulfuric acid solution, is used for copper extraction on heap leach pads. The efficiency and effectiveness of the heap leach process is partially dependent upon the accurate flow control of the raffinate.

Varying system conditions can cause flow rates to fluctuate such as heap leach pad height and ore conditions. These changes can often require resizing the control valve to achieve optimum flow control. Potentially, this can necessitate a change in valve size and piping modifications to incorporate the new size valve. The copper mine personnel found that

DeZURIK's RCV Rotary Control Valve, with four flow capacity ranges, provided the flexibility they needed to achieve optimum control with only a simple seat change.

Flow range trims include high, full, 0.5 reduced, and 0.2 reduced. In addition to the maximum application flexibility provided by these trim sizes, the high flow capacity often means smaller valves can satisfy the same flow requirement as larger competitive valves. Because smaller valves can be used, smaller, less-costly actuators can also be used. The mine personnel found the flexibility and ease of changing flow ranges met their need to maintain optimum flow control performance economically by reducing valve inventory, with minimum downtime and no piping changes.

DeZURIK's RCV Rotary Control Valve is a robust, versatile precision control valve for applications involving highly corrosive and/or erosive and high-pressure conditions existing separately or collectively. It has been designed with streamlined maintenance such as no threaded trim parts, self-aligning plug and seat, common valve components and flexible actuator options. A perfect choice in the toughest control valve applications.



Four Flow Capacity Ranges



Field installation of 2" RCV for raffinate control



## SALES AND SERVICE

For more information, contact DeZURIK

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