



Application

With an increased demand for gold and other high value minerals worldwide, operators of gold recovery plants demand increased reliability and availability and lower cost per ton produced. Pneumatic control valves used within heating oil systems are expensive and are extensively used throughout Gold recovery plants. One valve can cause a production loss of thousands of USD per hour. The air in these sensitive valves must, therefore, be free from particulate and moisture contamination.

Problem

A South African gold mine was experiencing problems with their heating oil flow control valves on a caustic solution line. The Pneumatic proportional valves were failing during operation due to high moisture contents within the air lines. A Pall air mist separator with automatic drain was installed to rectify the problem.

Solution

The gold mine installed a Pall filter housing part number - PCY1001G16H13X and a Pall SFG Aerosol Coalescer element part number - PFS1001ZMH13 for the caustic environment to remove moisture from air.

Results

- Elimination of moisture and hence, rust in control components.
- Increased valve reliability and availability, up to 99 %

* Refer to www.pall.com/pdf/171_PCY.pdf for specific information on Pall PCY Housings

* Refer to www.pall.com/pdf/GDS134.pdf for specific information on Pall SFG Elements

Gold Recovery Plant Application



Pall PCY1001G16H13X installed in the Pneumatic System

Small Flow SFG Aerosol Coalescer Filter Elements



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