

SUCCESSFUL APPLICATION



S768 Knife Gate Valve with electric actuator for reclaimed water line.

IMPORTANT RESULTS

- > Easy installation and operation for the customer.
- > Increased reliability of the area.



CUSTOMER

Large mining company located in northern Peru

APPLICATION

In a mining operation, reclaimed water containing 13% solids is handled at 120 psi in a line critical to the operational process. This line uses knife gate valves with electric actuators to safely and reliably isolate the flow. Our knife gate valve, with its full-port design, ensures an unobstructed flow path, extending sleeve life and minimizing pressure drop—ideal for slurry and abrasive solids.

CHALLENGE

The previously installed knife gate valves, less than two years old, were leaking constantly, impacting operational continuity and increasing maintenance costs. Direct contact with abrasive solids accelerated wear, reducing system reliability. A robust and durable solution was required to operate under these harsh conditions.

SOLUTION

We replaced the existing valve with our knife gate valve, which offers key benefits: ✚ Standard protective stem cover that extends service life in harsh environments. ✚ Encapsulated J-ring that reinforces the sleeve, ensuring zero bidirectional leakage.

✚ Energized sleeves that protect the metal components from direct contact with the slurry.

✚ Solid gate made of corrosion-resistant alloys, designed for applications with suspended solids.

✚ Two-piece bolted body for easy maintenance and compatibility with various flange standards.

✚ Optional bottom flush plate for safe flushing and purge water connection.

Our valve has been operating without interruption or leaks for nine months, demonstrating high reliability. Similarly, of the four valves with electric actuators, two are already our brand, and all will soon be replaced with our technology.

CONDITIONS OF THE PROCESS

Half	Water line recovered 13%
% Solids	
Pressure of Operation	120 PSI
Temperature of Operation	Ambient temperature (10 – 30°C)
Requirements Performance	On-off knife valve



8" knife gate valves replaced in line.



BRAY 768 – 8" knife gate valve with actuator
ONTRAC electric.

SUCCESSFUL APPLICATION



RESULTS

- The installed valve has been operating without interruption for 9 consecutive months. No leaks, unlike the previous valve which failed in less than two years. • Greater reliability was demonstrated under demanding conditions. (water with solids and a pressure of 120 psi).
- Customer satisfaction led to the purchase of 5 additional valves: 3 manual and 2 with ONTRAC electric actuators. • This positive experience reinforces confidence in our technology, accelerating the complete migration to our valves in this critical area of the mining operation.

CUSTOMER BENEFITS

The main benefit for the client was ensuring operational continuity with zero leaks, achieving nine months of uninterrupted service on a critical line that transports water with 13% solids at 120 psi. This resulted in greater reliability, reduced unplanned maintenance costs, and process optimization, giving the client peace of mind with a robust, efficient, and supported solution, which also led to the purchase of additional valves.

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