

# KNIFE GATE VALVES ON SAG MILLS

ORBINOX proves once again the exceptional performance of WG knife gate valves in heavy-duty applications

## **Application**

Cyclone Fed Sump

### Challenges

- Large percentage of solids
- Large-size solids
- Very erosive-abrasive media

#### **Solution**

 WG heavy duty slurry knife gate valves

#### Result

• Extraordinary performance for 17 months and still in operation

The WG knife gate valves are still in operation perfectly after 17 months despite the severe conditions in this part of the primary milling process

The copper mine needed a robust, long lasting solution for its SAG mill outlets. These valves are used around once a month for pump inspections plant shutdown. Given the process conditions, ORBINOX recommended the installation of WG DN500 knife gate valves with pneumatic actuation.

#### **Process Conditions**

Pressure: 3 barg Temperature: ambient Percentaje of solids: 60-70% Solid size: up to 16 mm Solid density: 3 g/cm<sup>3</sup> Flow: 2445 m<sup>3</sup>/h Cycles: 1 cycles/month

#### **ORBINOX Proposal**

WG Slurry Knife Gate Valve for severe conditions

Size: DN 500/20" Flanges: 150# Body: ductile iron Gate: 316SS

Sleeves: natural rubber Actuator: pneumatic cylinder

