

HYDROCYCLONE KNIFE GATE VALVE SOLUTIONS

The ORBINOX WG knife gate valve for severe slurry conditions increases the maintenance interval periods of hydrocyclones to more than 12 months

Application

- Iron ore concentrate hydrocyclones

Challenges

- > 12 months valve lifetime

Solution

- Heavy duty WG Slurry Knife Gate Valve

Result

- Optimal performance after 12 months
- Increased valve durability to over 12 months

A beneficiation iron ore plant in Brazil relies on our WG slurry knife gate valves for slurry in severe conditions for their hydrocyclones.

Previously, the mining company had to schedule a maintenance shutdown of the hydrocyclones approximately every 6 months. The goal was to increase the life of the knife gate valves to a minimum of 12 months in order to reduce maintenance shutdowns.

Process Conditions

Pressure: 6 barg
Temperature: ambient
Solid %: 50 – 60 %
Solid size: max. 1 mm

ORBINOX Proposal

WG Slurry Knife Gate Valve
Size: DN 4"
Body: ductile Iron
Gate: 316SS
Sleeves: NR
Actuator: pneumatic

ORBINOX WG valves are still working flawlessly after 12 months of hydrocyclone operation

