

DAMPER SOLUTION FOR SULFURIC ACID PRODUCTION

Two Brazilian Pulp & Paper mills use ORBINOX - DTL multilouver dampers in their new state of the art sulfuric acid production plants achieving self-sufficiency in sulfuric acid production, reducing its purchasing costs and minimizing the environmental risks related with acid transportation.

Application

- Sulfuric acid production process in Brazilian Pulp & Paper mills

Challenges

- Regulate sulfurous gases flow
- Regulate air passage

Solution

- ORBINOX - DTL multilouver and butterfly dampers

Result

- 2 years of impeccable operation
- More sustainable process, cost reduction and less environmental risks

Plant production

- More sustainable process, cost reduction and less environmental risks

Two Brazilian Pulp & Paper mills rely on ORBINOX - DTL multilouver and butterfly dampers to reuse the residual gas from the wood cooking process, known as GNCC. Using 30% of this gas, together with sulfur, they produce their own sulfuric acid and have become self-sufficient in their sulfuric acid consumption.

This innovative solution has been developed by one of the most important engineering companies in the industry and trusted in ORBINOX - DTL for the process.

Process conditions

Pressure: maximum 0,2 bar
Temperature: 40 - 975°C

ORBINOX - DTL Proposal

Multilouver and butterfly dampers
Size: DN300 - DN1500
Body: S235JR carbon steel
Blade: S235JR carbon steel
Seat: metal to metal
Actuator: manual and pneumatic

