

WOOD WASHING TANK VALVE SOLUTION

Andritz Brasil and ORBINOX cooperate to develop an innovative submerged valve solution for wood washing tanks

Application:

- Wood washing tank

Challenges

- Submerged and semi-submerged application
- Abrasive media

Solution

- ET uni-directional MSS SP-81 knife gate valves

Result

- The valves are performing optimally after 5 years
- This solution is being replicated in other paper mills

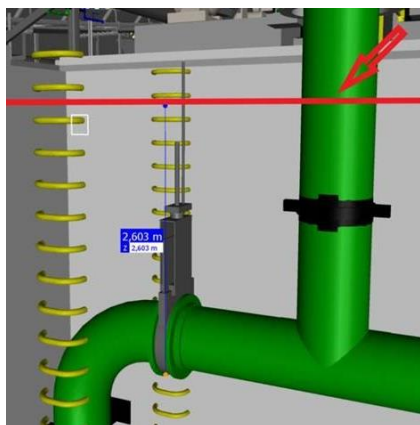
Andritz Brasil and ORBINOX worked together to develop the most appropriate solution for a wood washing tank application in one of the most modern paper mills in the world, Klabin Ortigueira (Puma I), in Brazil.

Klabin Ortiguera needed to develop a valve solution for their wood washer tanks, where sand is removed from logs before they move on to the chipping lines. These valves are installed at the water inlets and outlets of the wood washer tanks, the one in the inlet being semi-submerged and the one at the outlet fully submerged. The valves are normally in the open position except in maintenance shutdowns as they are installed in a continuous process to wash the logs.

Considering the continuous operation conditions and the abrasive media of water and sand, the application required an abrasion resistant, long lasting and minimum maintenance downtime knife gate valve in the tank outlet.

ORBINOX recommended the installation of the ET uni-directional MSS SP-81 knife gate valve, installed with extension stems and bevel gear actuators for operation purposes.

ORBINOX submerged ET knife gate valves are performing satisfactorily after 5 years. The paper mill has decided to replicate this solution in other paper mills



Process Conditions

Media: water and sand
 Temperature: 25°C
 Pressure: 4 bar
 Cycles: 3 times/year

ORBINOX Proposal

ET uni-directional MSS SP-81 knife gate valves
 Size: DN 600
 Flange connection: ANSI 150
 Body: CF8M
 Gate: 316L
 Actuator: handwheel with bevel gear and extension