

PULPER DETRASHING OPERATION VALVE SOLUTION

Close cooperation with a Spanish Packaging Corrugated Cardboard Paper Mill

Application:

High Density Cleaner (HDC)

Challenges

- Large reject concentration from pulper to HDC
- Clogging problems

Solution

- CR round-to-square ports knife gate valve

Result

- Extraordinary performance after 6 months

The Spanish Packaging Corrugated Cardboard Paper Mill discovered their Pulping System was producing a larger reject concentration than expected. This larger concentration rejects were causing clogging situations in the HDC valves and were resulting in reduced valve live

By closely working together and after a thorough analysis of the working conditions, ORBINOX suggested to replace horizontal TK high performance through-conduit knife gate valve with CR round-to-square port knife gate valve, especially designed for these working conditions. This valve's design with a round inlet and a square outlet significantly improves the passage of the rejects, avoiding the jamming of the valve

Process Conditions

Media: rejects
 Consistency: >12%
 Pressure: 3 bar
 Temperature: 70°C
 Cycles: 10 times/hour

ORBINOX Proposal

CR round-to-square port knife gate valves
 Size: DN 200
 PN10 rating
 Body: CF8M
 Gate: Duplex hard-chromed
 Sleeves: Polyurethane
 Actuator: Pneumatic

CR round-to-square port knife gate valves are still performing well after 6 months

