

# HIGH DENSITY CLEANER VALVE SOLUTION

ORBINOX TK through conduit high performance knife gate valve extends average lifespan by more than 12 months

## Application

- High Density Cleaners Junk Traps

## Challenges

- Aggressive media
- Large opening/closing cycles

## Solution

- TK through conduit high performance knife gate valves

## Result

- Lifespan 4 times longer

A prestigious cardboard paper producer was looking to increase the lifespan of the knife gate valve installed in the upper position of the junk trap.

Until now, the valve had a durability of 3 months with 260.000 cycles per year. This point of application required a robust, heavy-duty knife gate valve to withstand a large number of cycles, thus optimizing the operation of the high density cleaner.

Orbinox suggested the installation of a TK high performance through conduit knife gate valve with a polyurethane seat. The result is that the valve lasts 4 times longer than the previous one and the client has been able to reduce maintenance shutdowns.

## Process Conditions

Pressure: 3 bar  
 Temperature: 30°C  
 % of solids: 2.5%-3%  
 Cycles: 700 cycles/day

## ORBINOX Proposal

TK through-conduit high performance knife gate valve  
 Size: DN 100 / 4"  
 Body: stainless steel  
 Gate: 2205 chromed  
 Seat: polyurethane  
 Packing with stainless steel scraper  
 Actuator: oversized pneumatic cylinder

