

TRANSPORTATION WITHOUT FRICTION OF SOFT MATERIAL LIKE **SOAP GRANULATES** CAN BE SOLVED WITH A PNEUMATIC CONVEYING SOLUTION WITH STAINLESS PIPES

/ THE CHALLENGE /

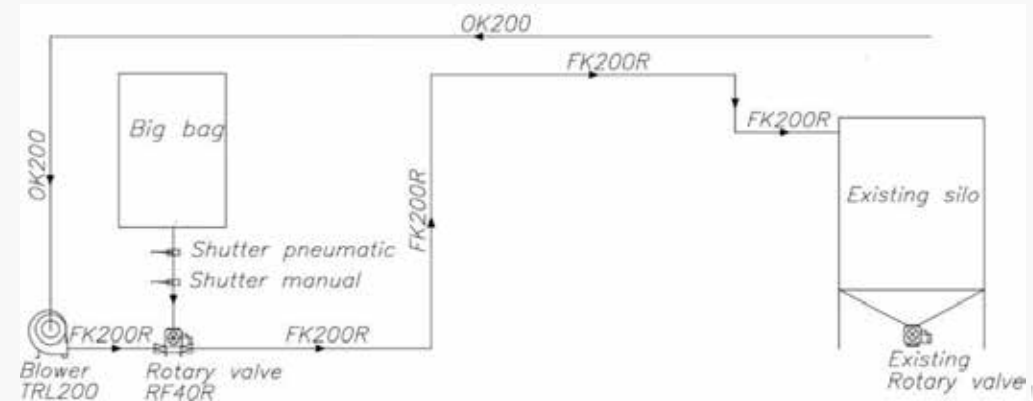
- The company is part of a multinational oleo chemical and personal care products company
- They needed a flexible conveying solution that could provide a fast, safe and friction free transport of high pressure soap granulates from Big Bags directly to silos
- The conveying solution had to create a dynamic form of transport of the granulates to obtain an adequate material yield
- If the soap granules are heated during transport they lose yield and the conveying system must be cleaned more often and thereby increasing the cost price for the soap production
- The conveying system needs a cooling system or the ability to keep the granulates cool during transport
- The system must be able to be connected to the latch on the Big Bags to minimize the manpower required to operate the transportation

- Material: Soap granulates
- Dimensions: granulate max Ø 8mm, grid max Ø 10mm
- Capacity: 3000 kg/hrs
- Contents of regrind: 100%
- Bulk density: approx. 1100 kg/m³
- Conveying distance:
H: max 15 m. V: max 4 m



/ THE SOLUTION /

- The solution consists of standard modular components that ensures a conveying system that can be built to fulfill the special requirements and also be flexible for future expansion
- The solution consists of TRL 200 Blower, RFD 40 Rotary valve, pneumatic and manual shutters and stainless steel pipes. This secures a fast and friction free transportation of a difficult material the most cost effective way
- With this system the customer was provided with a solution that contributes to increased productivity with a minimal downtime due to maintenance



/ THE ADVANTAGES AND BENEFITS /

- High flexibility in Kongskilde's modular conveying solutions means easy installation and cost effective upgrading when ever system requirements are needed
- The solution with stainless steel pipes surpasses other conveying systems in terms of safe transport without friction to secure the quality of the soap granulates
- The low pressure in the Kongskilde system was able to limit the temperature rise in the conveying line thereby minimizing damage to the soap granules being conveyed
- Less need for maintenance of the pneumatic conveyor solution contributes to lower operating costs