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Energy saving is becoming an increasingly important issue for the sector. Screw pumps have been used as a material feed system for decades, but now the new trends in the wear resistance surface of the rotary valves, Coperion, enables the successful replacement of screw pumps on existing lines with extreme energy savings. The screw pump operates in accordance with the principle of bulk seal in the screwdriver in order to close the upstream product fed from the transport air. A high speed (1500 rpm) is necessary to condense bulk with a screwdriver and abrasion of the transport product causes wear in the screwdriver and regular maintenance is required. Screw pumps have a high power requirement with an engine size of up to 300 kW, while coperion rotary valves have an engine of up to 5 kW. In addition, the average pressure drop of the screw pump is about 300 mbar, which increases the energy consumption of air feeders. Case study - transport of lignose (Location: Germany) in Germany at the plant the customer installed a new silo and transport system for lignose. The supply capacity does not exceed 6 000 [kg/h] at a transport pressure of 0,5 [bar] (7 PSI). In order to implement the explosion barrier between the transport system and the silo, the customer, with DuroProtect, chose the Coperion rotary valve ZXD 300® 3. This rotary valve has two functions: feeding the airlock to the transport line and the explosive barrier (protection system). The capital costs of this single transportable rotary valve solution were lower than the renovation costs of the current screw pump and also lower than CAPEX for the explosion protection rotary valve required upstream of the screw pump. In addition, the customer has achieved more than 90% energy savings compared to the screw pump concept. Screw pump replacement repayment diagram. Product line. Components86 Sides The entire device is specially designed to avoid contamination with DIN 1.4404 stainless steel product contact surfaces. The ZRD Hygienic is designed according to EHEDG guidelines and has a pressure difference of up to 1.5 barg (21 psi(g)) and a temperature of up to 100 °C. Valve explosive pressure impact resistant rating is 10 bar(g) [145 psi(g)]. The ZRD Hygienic includes full access due to the removal system and high inlet high filling efficiency. The ZRD Hygienic can be easily disassembled, cleaned and reassembled without disconnecting the valve from the system. The full removal system fully supports the rotor as it is removed for cleaning, making it an ideal method to facilitate the removal of the end plate and rotor. Click here for more information about Coperion ZRD Hygienic Rotary Valve Click here for related articles online When you visit any internet, it can store or retrieve information in your browser, mostly in the form of cookies. 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Source: Coperion & Coperion K-Tron Powder discharge and measuring valve Large inlet for large capacities Exhaust adapter/feeder is also suitable for feeding loose materials to pneumatic conveyor systems up to 1.5 barg (21 psi) Operation possible without leakage gas ventilation Click the button below to contact the supplier directly. Use it: Ask a question. Request more detailed information or literature. Discuss your current project/app. Ask for an offer. Find a distributor in your area. Schedule a presentation. Request information

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