

Material Handling

RACO Electric Actuator in cement clinker production

RACO COMPACT electric actuators are being used for the double flap valves of a kiln for cement clinker production in Saudi Arabia where 10,000 tons of cement clinker are produced every day. The double flap valves are actuated by a total of 20 type T6N4 electric actuators. The double flap valves must form a gas-tight seal when material is discharged because an over-pressure of 0.1 bar prevails inside the kiln.

This is achieved by suspending the electric actuators from a spring assembly. When the double flap valve is closed the electric actuator moves into the spring assembly where it switches off a proximity initiator after having traversed a defined spring path. The exerted spring force thus produces a gas-tight closure. A retaining brake ensures that this position is safely maintained when exposed to vibrations. The robust, long-life design of RACO electric actuators guarantees a very high, almost maintenance-free availability rate.

Technical data of the electric cylinder:

Thrust: $F = 2 \text{ kN}$
Stroke: $h = 100 \text{ mm}$
Speed: $v = 24 \text{ mm/s}$
Drive: three-phase motor 3 x 480 V,
60 Hz retaining „L“
IP65 special seal, 3 m power cable



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