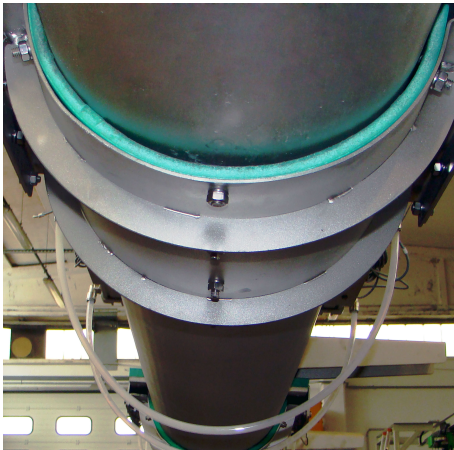## REM CONTOUR

Special valves for screw conveyors

MACHINE DESCRIPTION

The **CONTOUR** slide gates are optional components to be installed on screw conveyors. The gates are used as additional outlets to allow multiple material discharge points along the conveyor.

The key function is to have a dust tight gate which has no sludge or material layer formed between the bottom of the trough and the surface of the gate. In most constructions the layer of material is continuously build-up and packed while the material is conveyed over it forming a solid plug. Once the gate is open such layer does not break up and consequently does not allow the discharge resulting in a carry-over of the material.

CONTOUR gates eliminate such problem as the thin layer, of just **10 mm** instead of the usual **50-80 mm thickness**, and the curved shape of the layer do not allow to form a hard plug which consequently break immediately allowing the full discharge.

WORKING LOGIC FOR SPECIAL VALVES CONTOUR REM

CONTOUR slide gates open and close the outlet by means of a pair of pneumatic cylinders. The inner side of the gate is lined with HDPE to reduce friction of the conveyed material to the surface of the gate and to have a smooth movement of the gate itself. The working positions are:

1. OPEN

2. CLOSED

The status of the gate is signaled by the **REED** magnetic limit switches installed along the cylinder. The gate shall be controlled by a control cabinet (not included) which will pilot the solenoid valve. The gate is generally closed and will open only when the coil is energized and the compressed air is in the line.

The limit switches allow to control the status of the gate. If the gate is not discharging into another conveyor but on a pile it is possible to team the gate with an ultrasonic level indicator.

MAIN FEATURES FOR SPECIAL VALVES CONTOUR REM

1. CONTOUR slide gates are available in different sizes as per the size of the conveyor they shall be fitted on.

2. The control system shall be linked to the conveyor control system.

3. The installation is simple and fast.

4. Maintenance is very simple and scarcely required.