

# Gravity handling



Our range of gravity handling equipment is provided to design complete circuits directing granular or powdery product, flow to round or square sections.

A wide range of equipment to slow down, recenter, level, equalize, or limit breakage of conveyed product is available.

Such equipment complies with 2006/42/EC machine directive and can be supplied compliant with 94/9/EC Atex directive for areas 22 or 21.

Our catalogue includes elements from the simplest to the most sophisticated:

- Pipes, elbows, dampers, discharge boxes...  
optionally protected with anti-wearing elements such as special steels, synthetic or ceramic covering.
- Valves
- Various diverters
- Samplers



# Gravity handling

## Features and options

### Swing spout distributor

STOLZ swing spout distributor advantage is to insulate each non used outlet and then:

- Avoid any risk of cross contamination
- Lower the danger of explosion transfer between circuits

Every swing spout is controlled separately by means of a motorized worm screw and is fitted with :

- Upper and lower gashets to reduce dust emissions.
- A system using compressed air blowing to clean the driving screw and the bottom of the distributor.
- A protection lining with PM35 removable wearing plates.

The opening of the sealing flap of the desired outlet is controlled separately by a pneumatic cylinder.

The swing spout distributor is provided with its control box.

### Revolver distributor

STOLZ swing distributors advantage is to insulate each non used outlet and then:

- Avoid any risk of cross contamination
- Lower the danger of explosion transfer between circuits

The needle directs the material to one of the outlets by rotating around an axis.

This needle is specifically shaped to improve the flowability and tightness (improved hygien).

Such design provides sealed non used systems: no intercommunication is possible between circuits (no cross contamination and no danger of explosion transmission).



Two-way box direction



Revolver distributor



Helmet gates

### Two-way box direction

A very thick and high abrasion resistance plate (for sections of 300<sup>2</sup>) swings around an horizontal axis. It is assembled on the box by 2 keyed gudgeons mounted on bearings.

Great consideration has been given to a total peripheral sealing using:

- Polyethylene side scrapers
- Polyurethane gasket at its extremity

The flap is remote controlled by a pneumatic linear cylinder with built-in distributor protected by a full housing.

For manually operated boxes, a pendulum is provided to change the position.

Every STOLZ box has a side inspection door.

### Valves

Our wide range will meets various requirements such as:

- Valves under cells
- Helmet valves under cells
- Valves without wastes under chain conveyor
- Standard valves under chain conveyor
- Valves on vertical walls

Almost all our valves can be supplied with :

- Manual operation by wheel or nut wheel
- Pneumatic operation with built-in distributor
- Electrical operation with torque limiter

Opening and closing detection is ensured by 2 inductive sensors.