



Handling



Dispensing



Sieving



Blending



Container



Cleaning

## Decelerator

vertical product transfer without segregation



### ► Decelerator

The problem:

During the vertical transfer of a mixed product into a target container, there is a risk to segregate the product components due to the dropping height. Depending on grain size, structure or specific density, movement, vibration and air displacement generally lead to a separation of the particles inside the batch. This means that a product, which has to be transferred free-falling to a downstream process, (for example tablet press, capsule filling) is segregated.

**SERVOLIFT**  
lifetime solutions

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### The solution:

During the vertical product transfer with the decelerator, there is a controlled product flow, arising in a silicone inlet through regulated compressed air. In this process the product is transferred without segregation and adjusted speed.

At the beginning this FDA compliant silicone hose is compressed and through slowly lowering of the pressure between the outer tube and the inlet, the product is able to slide down slowly.

The silicone inlet can be changed easily after each transfer process.



Feeding example: tablet press

### ► Advantages:

- Controlled and gentle product flow
- Segregation and dust free product transfer
- No cross contamination, replaceable inlet
- Optional combination with dust free product transfer to High Containment Level

The interfaces can be dismantled and cleaned. Therefore the system is showing a GMP correct design.

Control :	pneumatical / electro pneumatical
Product:	powder, granulate and tablets
Rate of Fall:	regulated exhaust air
Pressure:	0,1 / 0,15 bar between tubular foil and down pipe