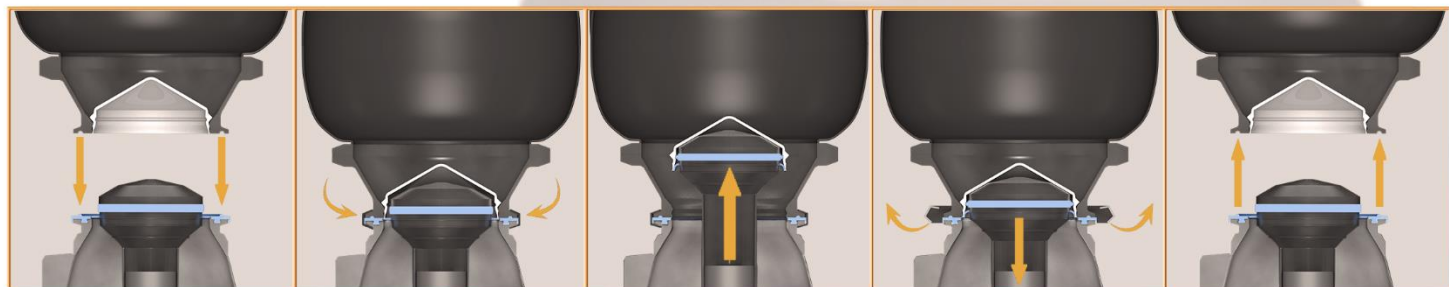


## SoliValve®100

Based on the success of the SoliValve®250, SoliValve®100 has been developed to provide containment and material handling capabilities to industries facing traditional health & safety challenges (Allergens, HPAPIs, Heavy Metals, Nanoparticles, etc.). Suitable from <1kg to 500 kg, dosing to 1g accuracy within OEB5 containment level.

## Principle of operation



### 1-Connect

### 2-Clamp & Dock

### 3-Discharge/ Dose

### 4-Clean & Lock

### 5-Undock & Disconnect

- 1- A container is brought to the Active-SoliValve® and connected (manually or automatically).
- 2- External and internal mechanical clamps ensure that both Active- and Passive-SoliValve® are securely docked prior to discharging the powder.
- 3- A mechanical or pneumatical probe unlocks and pushes the cone upwards, displacing powder in the container and promoting complete or partial discharge.
- 4- The cone and its seat are cleaned by N<sub>2</sub>/air jets. The cone is then locked in the outlet of the container.
- 5- It is now safe to undock and disconnect the container from the Active-SoliValve®.

## Handling



### Pouch

Small quantities but, expensive and/or dangerous? SoliPouch® ensures full discharge AND containment.



### Bottle

Feeding a liquid process? Plastic or stainless-steel bottle can be rinsed with a nozzle after discharge. Zero residues, pre-cleaning completed.



### FIBC

Large quantities of product to discharge? SoliBag® is a flexible, reusable, cost effective solution.

## Options

ATEX – High Accuracy Dosing – WIP/CIP – Fully automatic

## Process Applications

### Filling



Operating with isolators or downflow booths? SoliValve® can fill pouches, bottles and charge bags in a contained and reliable manner.

### Discharging/Dosing



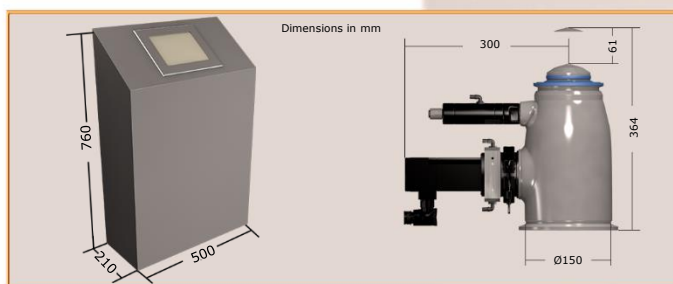
Feeding seeds to a reactor or API to contained process? Clamp the Active-SoliValve® to a Process Flange. System will control the flow of the powder on demand.

### Micro formulation



High value-added formulation with expensive and sensitive materials? Combine the SoliValve®100 with an automatic formulation system to dose down to the gram.

## Dimensions



## Technology Comparison

|                       | Discharge efficiency | Containment | Dosing | Costs  |
|-----------------------|----------------------|-------------|--------|--------|
| Split butterfly valve | ✗                    | ++          | ✗      | \$\$   |
| Isolator              | ✗                    | ++          | ✗      | \$\$\$ |
| SoliValve®100         | ✓                    | OEB5        | ± 1g   | \$     |

## Other SoliValves®

