CONTINUOUS AUTOMATIC DOSATOR ADJUSTMENT

Dosing ports are automatically adjusted during operation in accordance with feedback from the weighing cells. The dosing ports can be adjusted from the control panel without opening the machine cabinet.

After automatic check weighing system (statistical) and 100% at start up, monitors the dosing weight at individual stations and adjusts the weights of trend in weight change is determined. The whole process is data logged. Containers with weights out of range and unaccepted vials are rejected out of the system by a vacuum assisted star wheel.

<table>
<thead>
<tr>
<th>Filling volumes</th>
<th>Filling bottle</th>
<th>Bottle opening dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filling shot</td>
<td>5.0 mm</td>
<td>10 mm</td>
</tr>
<tr>
<td>Range of filling</td>
<td>1 filling</td>
<td>0.07 - 0.43</td>
</tr>
<tr>
<td></td>
<td>2 filling</td>
<td>0.14 - 0.86</td>
</tr>
<tr>
<td></td>
<td>3 filling</td>
<td>0.21 - 1.29</td>
</tr>
<tr>
<td></td>
<td>4 filling</td>
<td>0.29 - 1.72</td>
</tr>
</tbody>
</table>

The exact setting or range depend on the properties of the powder to be handled.

**SPVF-150**

- Output: 150/min (1 dosing wheel)
- Max. Dosage: 50 mg
- Max. No. of dosages: 8
- Weight Control: Infinite - statistical weight control and 100% weight control during start up (optional feature)
- Plug Size: 20mm rubber stopper
- Installed power: 4kW

**SPVF-300**

- Output: 200/min (2 dosing wheels)
- Max. Dosage: 1500 mg
- Max. No. of dosages: Infinite (servo drive)
- Weight Control: Infinite - statistical weight control and 100% weight control during start up (optional feature)
- Plug Size: 20mm rubber stopper
- Installed power: 4kW

**Technical Data**

- **SPVF - 150**
  - Output: 150/min (1 dosing wheel)
  - Max. Dosage: 50 mg
  - Max. No. of dosages: 8
  - Weight Control: Infinite - statistical weight control and 100%
  - Plug Size: 20mm rubber stopper
  - Installed power: 4kW

- **SPVF - 300**
  - Output: 200/min (2 dosing wheels)
  - Max. Dosage: 1500 mg
  - Max. No. of dosages: Infinite (servo drive)
  - Weight Control: Infinite - statistical weight control and 100%
  - Plug Size: 20mm rubber stopper
  - Installed power: 4kW

**SNOWBELL MACHINES PVT. LTD.**

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8 Technology for the future

Filling And Closing Machines For Sterile Powders
CONSTRUCTION

Monoblock Type : All parts in contact with filling media are of SS316L, AISI 316L material.

CONTAINER FEED

A turntable and a one to two lane infeed belt feed the containers into the conveying system.

THE CORE - THE DOSING SYSTEM

This system operates by vacuum / compressed air principle.
- Single head -150 / min (SPMP 150)
- Two head - 300 / min (SPMP 300)
The system processes an extraordinarily broad spectrum of powders, dust free and with great precision, owing to the very small and easily manageable design changeover.

OPERATION PRINCIPLE

The product on the powder supply chamber is kept in constant motion with the help of an individual agitator, with programmable speed. The powder is transferred to an intermediate chamber also with its own agitator. The powder is taken by vacuum into the dosing wheel, which indexes and closed with sterile compressed air into the container. After each dosage, the dosing chamber is purged with additional sterile compressed air. Filled vials are carried to the stoppering station.

As all parts that come into contact with the product, the dosing wheel can be easily cleaned and sterilized.

INSTALLATION AND CLEAN ROOM OPTION

- Laminar flow
- Integrated return in LAF module
- C / RABS (closed / Restricted Access Barrier System)
- Isolator

AUTOMATION

User friendly screens assist the operator / supervisor in selecting or changing the parameters. The automation and visualization concept of SNOWBELL SPFP series of machines ensure a level of security, reproducibility, flexibility and an increase in operating comfort. The flow dynamics, and the dosing quantity, being the deciding factors, output can be optimized by using the available adjustments in parameters settings.

The operator can also easily save the filling parameters for future use and call them up when required. A facility to dial online into the system to determine actual status for diagnostic and support purposes is available.

The equipment specifications conform to quality guideline GAMP (Good Automated Manufacturing Practice), and supports 21 CRF Part 11 requirements.

User Friendly, Reliable And Safe.

The Solution For Your Powder Production

Stopping Station - Particle Free Reliable
To minimize the risks of particles, the rubber stoppers are picked up by vacuum from a vertical plane away from the containers and with a roller arm plungers placed onto the vial.