

FREWITT 

PROFI-OEB

FOR HIGH CONTAINMENT
POWDER HANDLING & MILLING



WE
CARE
ABOUT
MILLING

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This technology is patented and owned by Frewitt. Any infringement of our rights will be subject to immediate legal action.

PROFI-OEB

Frewitt has developed, in conjunction with its partner Visval AG, an innovative, patented system that allows the handling and milling of pharma products under an OEB 5 high containment. The system offers simplicity of use while providing high containment performance and accurate dosing during the milling operation.

The SoliValve® technology allows filling or discharge (completely or partially) via one universal docking unit of any type of powder container such as drums, bags, pouches etc. equipped with a dedicated, passive valve.

SoliValve®, in addition, provides high containment transfer, accurate, repeatable dosing and allows fully automated handling of any type of such containers. This universal solution for all powder handling and milling applications with any type of mobile or stationary container is now available on the market.

High containment is achieved, primarily due to the unique docking system between the active and passive components and, secondly enhanced by the active and passive cone, as well as sealing surface cleaning features.

The SoliValve® systems ensure dust-tight powder transfer, even with partial discharge from receptacles. SMEPAC tests conducted by an independent, certified institute have confirmed the SoliValve® 100 high containment performances OEB 5.

SUITABLE FOR THE FOLLOWING INDUSTRIES:



Pharmaceutical



Battery



Chemical



Food



FEATURES & TECHNICAL DETAILS

- Based on the cone valve principle, the patented passive/active SoliValve® system is a technical breakthrough, drastically enhancing the handling, dosing, and containment performances.
- The passive part of the system with DN 150 connection makes a simple and easy integration to a very broad range of container solutions commercially available or already validated by the customer.
- The Frewitt mill is equipped with the active part of the system on which the hermetic container docking is done. After docking, the passive valve is automatically opened by the mill's control system and the product's discharge is regulated to maintain a constant flow to the milling chamber. After completion of the milling, the control system closes hermetically the passive valve allowing safe undocking under high containment.
- For powder products with poor flowing characteristics, a patented fluidization discharge system is available as an option. By accurate control, pulsed gas injection (air or nitrogen) and vibration are used to prevent blockage in the discharge, breaking bridges, and avoiding segregation while allowing complete discharge with minimum residual powder in the container.
- The passive part of the system consists of the SoliValve® cone produced by high-precision injection molding resulting in dimensional precision and cost-effectiveness.

USER BENEFITS

- Reliable, flexible, and compact cGMP system for the handling and milling of pharma products
- Suitable for applications requiring high containment OEB 5*
- Accurate dosing of product for stable, consistent, and reproducible milling operations
- Suitable for applications with powder products having poor flowing characteristics
- Compatible with different types of containers (liners, rigid bottles, drums, etc.) and working volumes (from 1 to 1000 kg)
- Fast product switchover thanks to a GMP construction preventing any powder retention and cross contamination
- Allows partial discharging of the container while preserving the containment
- Cost-effective, global solution for powder handling and milling operations
- Safe handling while milling products ranging from low toxicity to high potency
- ATEX option available
- Washing In Place (WIP) and Cleaning In Place (CIP) options available

* SMEPAC test conducted by an independent, certified institute



PROCESS CHARACTERISTICS



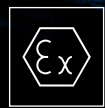
Charge bags / containers
1 kg - 1000 kg



Validated for OEB 5
<math><1\mu\text{g} / \text{m}^3</math>



Connection flange Triclamp
up to 2 kg/dm³



ATEX
as option

TECHNICAL CHARACTERISTICS



Materials

AISI 316/316L - Ra ≤ 0.8 μm
AISI 304/304L - Ra ≤ 1.4 μm
EPDM/PTFE/Silicone

Interior
Exterior
In product contact,
certified FDA

EXECUTIONS



Standard

GMP construction
Suitable for applications
requiring high
containment OEB 5*



Optional

WIP
CIP
ATEX



WORLDWIDE PRESENCE



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