



- Combined system for conveying and dosing powders
- Ideal for toxic and explosive powders
- Continuous feeding of process equipment (reactors, dryers, jet mills etc.)
- Precision dosing in the gram range
- Allows mixing of several components
- Adjustable transfer capacity
- Perfect for pilot plants
- Streamlines processes
- Oxygen exclusion
- Compact and mobile version available
- Easy to clean - CIP

Transferring • Dosing PFL Powderflex



PTS Powderflex* provides continuous and precise conveying and dosing of small (gram level) to medium quantities of powder, whether the requirement is for the controlled charging of powders into continuous production processes or for predetermined precision dosing.

The system comprises two small, calibrated chambers, each equipped with a flat filter in the upper part. A practically continuous powder flow or precise volumetric dosing is generated through a unique valve system, plus the combined effect of vacuum and pressure, which makes it possible to alternate, at high frequency, between filling and emptying the chambers. The transfer rate is easily adjustable by adapting the volume of the chamber or by changing the frequency. PFL Powderflex extracts powder from any

container and transfers it over considerable distances. Its simple design ensures minimal maintenance and allows rapid product changes. Powder characteristics are not modified during the transfer. PFL Powderflex is to powder what a peristaltic pump is to liquids.

Design

- AISI type 316L stainless steel, electro-polished
- Other materials available (HC22, plastics, etc.)
- Various hose selection according to application requirements

Features

- Constant feeding of process equipment (including reactors, dryers, centrifuges, etc.)
- Precise conveying and dosing (1-2%)

- Enhanced precision with weighing device
- Automatic adjustment of transfer capacity
- Extracts powders from multiple containers (big bags, silos, drums, etc.)
- Conveys over long distances > 50 m
- Operates 24/7
- Permits online mixing of several components
- Cost-effective multiple dosing stations
- Operates under inert gas and charges inerted equipment
- Handles explosive powders
- cGMP & ATEX compliant design

Options

- Adjustable chamber volumes
- CIP
- Mobile version
- Containment level
- Weighing system

*patented

Technical Data

PFL	20	50	75	100	200
Total volume (cm ³)	20	50	75	100	200
Total weight (kg)	30	30	30	30	30
Conveying capacity (l/h)	50	130	190	250	500

