VanAarsen

PID Precision Ingredient Dosing

Process

The Van Aarsen Precision Ingredient Dosing system is designed as an integral part for a new or existing MID unit and suitable for very small quantities of ingredients which are suitable for a wide range of products used in the feed milling industry all with different bulk densities and flow characteristics.

The Van Aarsen ingredient dosing weigher range consists of 3 types:

- 1) Small Ingredient Dosing system, SID (max. 200 kg),
- 2) Micro Ingredient Dosing system, MID (max. 50 kg)
- 3) Precision Ingredient Dosing system, PID (max. 1 kg).

Benefits and features

High effectiveness MID with PID

- ► Large dosing and weighing range from 50 g 50 kg
- Very accurate dosing with slide openings operating in sequence for fine and coarse dosing
- Short dosing time
- First-in first-out principle by silo design in combination with slides
- Two butterfly valves under the hopper
- Pneumatic beater on the weighing hopper
- Stirring device in the product hopper(s) (option)

Energy efficiency MID with PID

Total installed power only 1.2 kW

Low maintenance costs MID with PID

- Due to the application of self-lubricating plastic frames around the moving parts, the machine operates smoothly with a minimum of wear
- ► Very low maintenance due to minimum of moving parts

Easy and safe operation MID with PID

- All moving parts are shielded for the safety of operating personnel
- Good accessibility to the weighing hopper

High feed quality MID with PID

- ► Parts in contact with product made of stainless steel
- Dosing by means of slides resulting in gentle product handling and no product damage
- Minimum contamination of product
- Built completely according to the latest regulations and standards for homogeneity, hygiene and safety





Flexibility MID with PID

- ► Wide dosing and weighing capacity range
- ► Vitamins, minerals and additives can be dosed with high accuracy for premix/concentrate production combined with larger dosings in the MID unit (dosing range 20 to 50 kg).
- The PID has a weighing and dosing range up to 1 kg and a dosing accuracy of 2 gram (weighing accuracy 1 gram).
- Silo extensions for new or existing dosing units by means of screw conveyor

High automation level MID with PID

- In case of a power breakdown, the dosing slides will automatically return to a closed position thus avoiding loss of product
- Integrated electrical control panel with reusable data
- ► Accurate monitoring of dosing slide position
- ► Operating in 'slave function' to the feedmill automation

Design MID with PID

- Compact design
- Durable construction
- Product hoppers integrated in design
- Silos on top of the dosing unit (optional)

Datasheet



