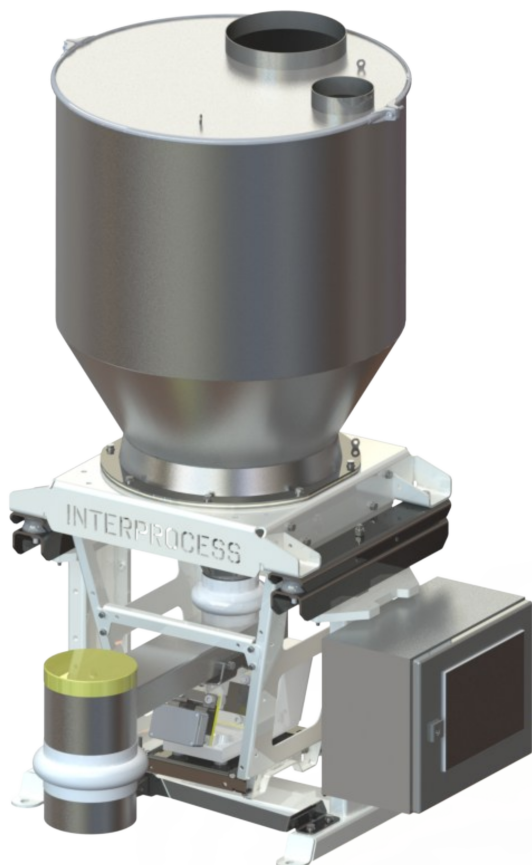




DESCRIPTION

The DVC 200 feeder provides continuous, accurate, and gentle gravimetric dosing of free-flowing materials — granulates, flakes, and pellets, including fragile and abrasive products. Material is conveyed on a vibratory trough, with no rotating parts in the product-contact zone, so the material is neither crushed nor abraded, and the risk of degradation and cross-contamination remains minimal.

Drive and control. The electromagnetic vibratory drive with feedback maintains a constant vibration amplitude and operation near the trough's resonant frequency. As a result, the conveying characteristic stays linear and repeatable across the entire capacity range, with minimal flow pulsation.

Hopper and weighing system. The role of the container is served by a conical hopper that enforces mass flow and uniform emptying. Dosing is carried out in a loss-in-weight loop, with measurement based on two strain-gauge load cells in OIML class C3, made of stainless steel, with an IP68 protection rating. The signal from the scale continuously corrects the vibration amplitude, compensating for changes in the material's bulk density and flowability.

Design and hygiene. The modular stainless-steel construction allows quick disassembly for cleaning, and the hopper is closed with a cover fitted with ports for filling and venting.



SPECIFICATIONS

Dosing accuracy: <0.5% of the setpoint value.

Adjustment range (turndown ratio): 1:50

Operating temperature: 0 to +45 °C
Material temperature: 0 to +60 °C

Electromagnetic drive with feedback
(vibration amplitude sensor).



HOPPERS AND CAPACITY

Total hopper capacities:

- 100 [dm³]
- 200 [dm³]
- 300 [dm³]

Maximum volumetric throughput :

- Up to 5000 [dm³/h]



MEASURING SYSTEM

The weighing system is based on two strain-gauge load cells in OIML class C3, made of stainless steel, with an IP68 protection rating.



CONTROL SYSTEMS

Continuous dosing:

- FLEX 2100/FLEX
- ALPHA
- Siwarex WP361

Batch dosing:

- 1020/SGM800
- FLEX 2100/FLEX
- ALPHA
- Siwarex WP361

Communication: EtherNet/IP, Modbus
TCP/IP, PROFIBUS, PROFINET.



DESIGN

All product-contact parts are made of stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316L); the remaining parts are either powder-coated or stainless steel.

Optional hygienic design — continuous welds inside and outside the structure, with internal surfaces and welds ground/polished (Ra < 0.8 [µm]).



ADDITIONAL OPTIONS

- Grid/screen and hopper for manual filling
- Cartridge filter for dust extraction
- Ex design for potentially explosive atmospheres (hazardous zones)

