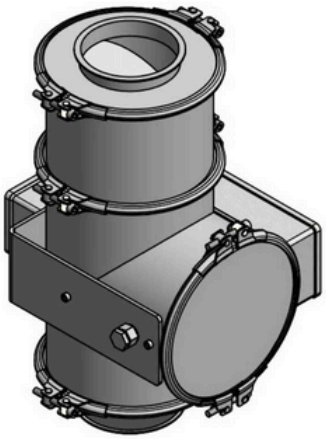
Flow meter - mod. DC3

In-line weighing of loose products, can be installed in small spaces



Characteristics

- High precision weighing system and flow meter.
- Small dimensions for easy in-line installation
- Extremely reliable system, requires minimal maintenance over time
- Designed to weigh cereals, wheat, rice, malt, pellets and other granulated materials
- The precision is independent of the density and specific weight of the product

Applications

The DC3 Flow Meter is used in the following applications:

- Continuous weighing of bulk materials for control and management movement within the plant
- Pre-weighing of batches for loading vehicles
- Management and control of the introduction and withdrawal of products from storage systems-silos-etc.

The DC3 Flow Meter continuously determines the quality of bulk materials.

Functions

- The flow of the material is slowed down and conveyed inside the measuring device by an appropriately shaped duct coupled to a load cell.
- The measured force is directly proportional to the flow of the product in transit.

Sectors of use

All types of bulk materials can be measured and quantified: cereals, wheat, legumes, rice, malt, pellets, soybeans, as well as various types of bran.

FRIEDRICH electronic

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Construction

The DC3 Flow Meter consists of a metal containment structure, a flow slowdown, a Load Cell and a digital Weight Indicator. All devices are protected against dust - ATEX Zone 22.

Models and capacities

Type	Pipe Ø at inlet	Max. capacity approx.	Installation height
DC3.120	120 mm	20 m³/h	543 mm
DC3.150	150 mm	40 m³/h	543 mm
DC3.200	200 mm	80 m³/h	730 mm
DC3.250	250 mm	135 m³/h	915 mm
DC3.300	300 mm	200 m³/h	1100 mm

The structure is made of powder-coated steel in the color RAL7032. Inlet and outlet are circular in section, aligned vertically on the same axis. The AISI304 stainless steel version is available on request.

Mechanical Integration

The device must be installed in a vertical position. Inlet and outlet are flared or equipped with mating flanges. In case of vibrations, the inlet and outlet ducts must be decoupled with rubber sleeves. To achieve maximum precision, air flows through the weighing device due to pressure differences should be avoided.

Precision

The accuracy of measurements is between +/- 0.5% and 2%*, depending on the installation geometry, the material inlet methods and the homogeneity of the product.

Electronic weight indicator mod. FE128

- Available for panel (24 V DC) or wall (230 V AC) mounting
- Can be installed separately from the weighing unit on the line LCD display and keypad
- Display of instantaneous flow rate and totalized weight
- Preselection function with management of output signals upon reaching the target weight.
- Pulse type output for each kg measured
- Analog output (or -10V) or 4-20mA on option
- Data storage - 48h period - with graph display
- Specific calibrations for 10 product types
- Interfaces: RS232/485, Profibus (optional)