

The advancement of technology continues to drive our business forward allowing us to provide bespoke solutions to most processing sectors. We have particular experience in grain and flour processing, feed and food production, breweries and malthouses and most other continuous bulk handling activities.

Services include:

- Design of Control Systems and Build of Control Panels
- Software engineering for PLC and SCADA software
- Integration of Control and Information systems
- Electrical Wiring and Installation
- Technical Support

Products include:

- Inline NIR process analysis
- Continuous weighing and batching technology
- Moisture Measurement and regulation

Full details available on: www.suffolk-automation.co.uk

For further details and a no-obligation discussion about your process control requirements, please contact:

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Vertical Pipe Weigher DCG

Continuous weighing of free flowing bulk solids

INFORMATION SHEET



OVERVIEW:

- Inexpensive, accurate weighing system
- Easy installation with standard pipe connectors
- Reliable system with low maintenance
- Designed for weighing of grain, malt, pellets and granules

Vertical Pipe Weigher DCG

Continuous weighing of free flowing bulk solids

Application

The *Vertical Pipe Weigher DCG* is suited for the following applications:

- Continuous weighing of bulk flow for inplant control purpose
- Pre-weighing of bulk for truck loading processes
- Entry of quantities for silo management

The Vertical Pipe Weigher continuously weighs free bulk flow.

Function

Product is slowed down by means of a falling brake. It then reaccelerated and fed into a pipe bend. The pipe bend is connected with a load cell. The measured force is proportional to the throughput.

Applicable products

All free flowing products can be measured, e.g. grain, pulses, granules, malt, pellets, soya and diverse bruised grains.

Construction

The *Vertical Pipe Weigher DCG* consists of steel housing, falling brake, baffle pipe, load cell and electrical measuring system. The housing is dust-tight.

Sizes

The following sizes are available:

Type	Pipe Ø at inlet	Max. capacity approx.	Installation height
DCG1.2	120 mm	20 m ³ /h	803 mm
DCG2.2	150 mm	35 m ³ /h	934 mm
DCG3.2	200 mm	75 m ³ /h	1270 mm

The housing is made of standard steel, powder-coated in color RAL7032, the inlet pipe is round.

Integration

The weigher must be installed in vertical position. The inlet is supplied with flared tube end, the outlet is connected by a floor flange. In case of vibration the in- or outlet pipe must be connected by rubber sleeves. Air flowing through the weigher due to pressure differences must be prevented. For pressure compensation there is an additional pipe connection at the outlet of the housing.

Accuracy

The measuring tolerance lies at $\pm 0,5 - 2\%$, depending on feed design, product homogeneity and throughput.

Control panel options

External electronic type FE128

Available for panel mounting (24 V DC) or inside wall housing (230 V AC), can be installed independent from the dosing unit, connection of max. 2 weighing units, with LCD-display and keypad, display of capacity and total weight, preselection function, output if kg-pulses and analogue output of capacity (0-10 V), graphic registration over 48h, 10 product-specific calibrations possible, RS232/485-interface.

