



Application

Pressure regulator in use during the bulk material handling

The Novindustria AG in Sissach in Switzerland is a manufacturer of various equipments for the filling of bulk material. As in case of the storage of different products in case of filling it is also important to protect the materials, which are to be filled, from the oxygen of the atmosphere. Through the use of pressure regulators of the Zürcher-Technik AG this nitrogen aeration can be realized.

Before the filling the container is fumigated with nitrogen through the inertisation module. Thus the interior bag of the container is inflated and filled with inert gas.

During this inflation the interior bag is directly preformed, thus the damage can be recognized before the filling.



The pressure, which is needed for shaping of the container, must be adapted to the thickness of the interior bag. If the pressure is too small it will not be enough for an ideal shaping and if the pressure is too high it can destroy the container.

After this step the container is ready for the filling. During the filling nitrogen is overlaid with approx. 5 mbar, so that the filling atmosphere remains inert and the product (e.g. pesticide) can be protected from the oxygen.

Product properties:

- Regulating range up to 2000 mbar
- CE-conform acc. CE0036
- Sizes DN15 to DN 100
- DN15 – DN50 design pressure PN16/ASME 150 lbs
- DN80 – DN100 design pressure PN10
- Back pressure resistance up to 2 bar
- Withstands full vacuum
- Stainless steel regulator
- Nickel Alloy regulators
- PVDF regulators in design pressure PN10
- Regulators in clean design
- ATEX II 2GD (opt. IIC)

Ends according to EN 1092-1 and ASME B16.5

