

Gas solid fluidization Référence : FGS/1000



Study air fluidization of solid particles

Implement pneumatic transport of solids

GENERAL SPECIFICATIONS

- Air feeding circuitry with filter, pressure reducing valve.
- Air flow rate measurement with float rotameter.
- Fluidization chamber in glass, with bronze retention grid and solid particles bed.
- Glass cyclone.
- Filter to collect light particles (filtering capacity : 50µm). Solid particles delivered with the unit : recrystallized alumina.

Instrumentation

- 1 float rotameter.
- Differential manometer with graduation.

Dim : 90 x 40 x 155 cm – 60 kg Aluminum profile frame

Categories: Educational Engineering Fluidization Fluids dynamics

Reference: FGS/1000

DESCRIPTION

Study air fluidization of solid particles

Characterise the solid to be fluidized.

Apply experimental fluidization equations :

Define the ΔP graph for the fluidized bed as a function of air flow rate

Determine the minimum fluidization velocity

Influence of the height of the bed of particles

Understand the operation of a cyclone



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