PROCESS PLANTS
AUTOMATION
ROBOTICS

JAG FLD 32 Fluidizing nozzle

JAG Jakob Ltd
With its JAG Fluidizing Nozzle, your plant construction & automation partner supplies a simple and effective solution for the problems currently encountered in powder discharge technology

Application areas

Industries such as chemicals, pharmaceuticals, food, cosmetics, paint/lacquers, general powder applications.

Function

The air nozzle is incorporated into powder silos to fluidize and break up product bridges.
Pneumatic energy enables a larger volume of air to be injected into the powder medium in a short space of time. The number of air nozzles and the injection intervals must be determined in the light of the flow properties of the powder medium concerned.

The ideal flat shape of the nozzle head eliminates all interfering edges on which dirt may accumulate or flow obstructions occur. This achieves uniform product discharge performance.

System benefits

- Bridge and core flow prevention
- No projecting nozzle parts on the blow-out side
- Stainless steel, no plastic components
- For direct incorporation into silos, containers, funnels, separators etc.
- Can be installed and dismantled from outside the silo
- Suitable for retrofitting on existing process facilities
- Low maintenance
- Automatic pneumatic control
- CIP-compatible design
- Nozzle head closes automatically; this prevents clogging
- Controllable minimum air injection into the product

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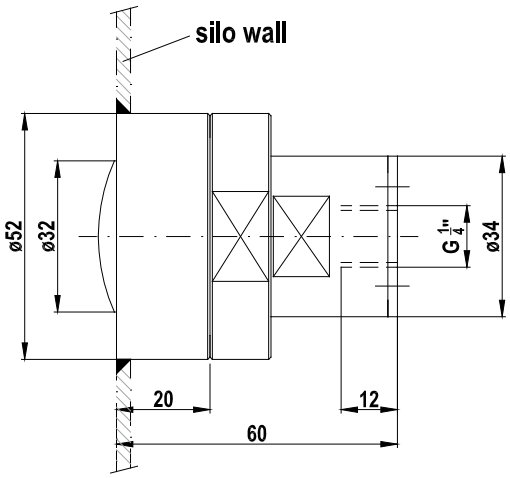
Technical data

Air union internal thread	G1/4“
Operating pressure	2,0 – 6,0 bar
Operating temperature	4 – 110°C

Materials

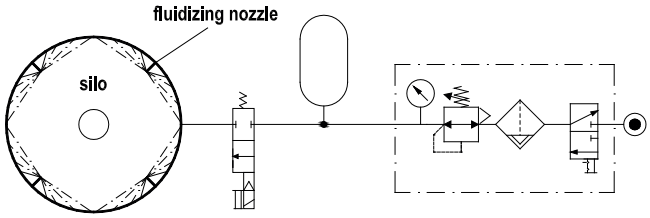
Stainless steel	1.4435
Gaskets	EPDM
Propellants	purified compressed air or nitrogen
Active diameter (Depending on grain size, density, filling height.)	ca. 200-300 mm

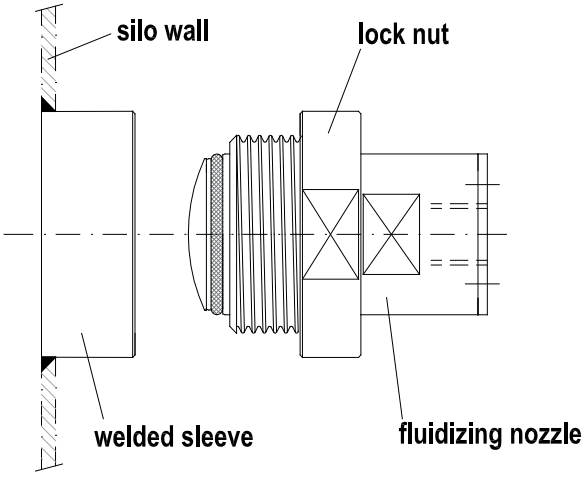
Dimensions



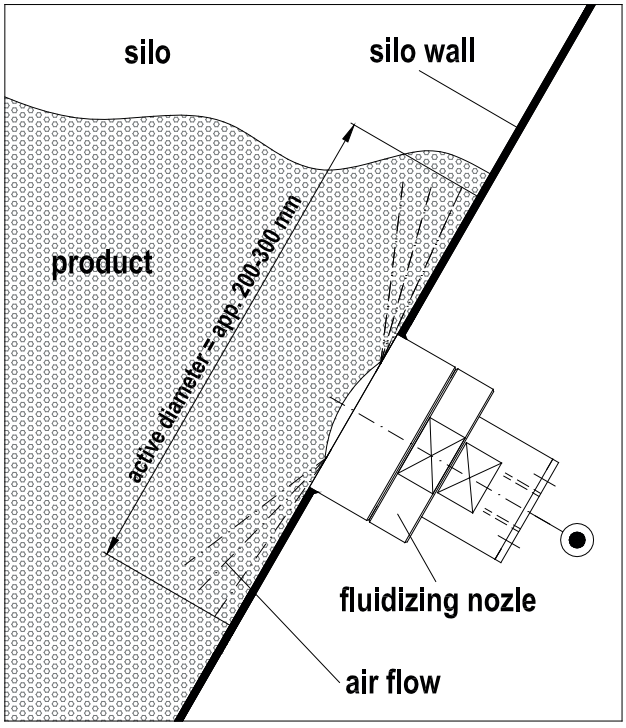
Electrical / pneumatic connection

Example of application





Installation instructions



Fluidized nozzle installed

II 1/2 Ex h IIIC T55 °C Da/Db

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