



Technical Article

Simplified Computerized Design of Pneumatic Conveyors

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The purpose of the design guide outlined below is to obtain the system parameters such as relative pressure drops, velocities, and blower data such as flow and pressure values for pressurized pneumatic conveying systems with a single value of {constant} pipe diameter. The designs are based on the mean particle size of the conveyed material.

This method of design for pneumatic conveyor systems deals with pressurized systems only and gives results quickly for conveyors working either in the dilute or dense phase.

On the whole, the design calculations are based on well known methods and theories; it is the setting up of applicable equations and the programming that provides quick comprehensive results.