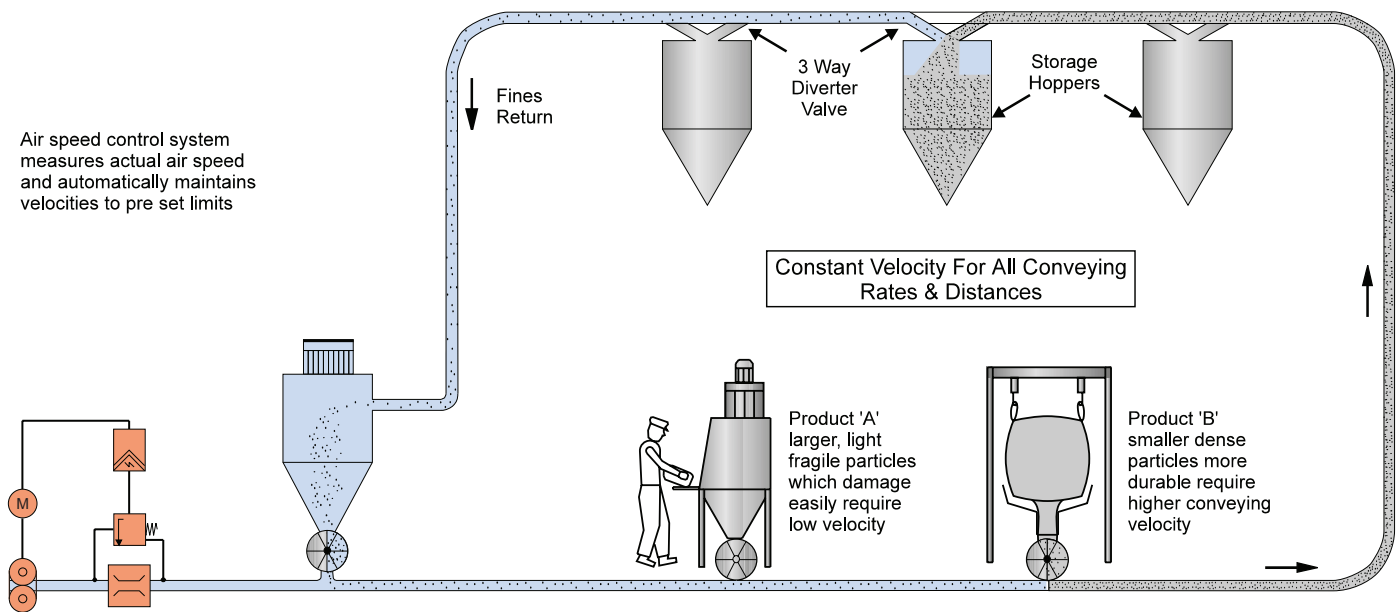




MAKING A MARK IN LOW VELOCITY CONVEYING

Low Velocity Pneumatic Conveying Using Air Speed Control



A brief look at the benefits

Air Speed Control is used to convey fragile products at a constant minimum velocity to keep product damage to a minimum. The minimum velocity for a product is established and the system is designed to run at this velocity for all feed rates and conveying distances. If the product flow varies or the product is directed to destinations at varying distance, then the back pressure on the blower will vary and the speed of the air, and product, will alter. The purpose of the system is to keep the velocity at the pre-set value for all conditions. A control system measures, monitors and adjusts the air speed by varying the blower output.

Feed Control can also be used to maintain a constant feed rate for products of different density or consistency by varying the speed of the rotary valve. The rotary valve runs faster for low product densities and slower for higher product densities.

Low Velocity Closed Loop Conveying Using Air Speed Control

- Reduced damage & degradation for fragile & friable products.
- Auto-calibrates to a lowest pre-set velocity.
- Less dust, less waste, product quality maintained.
- Can be fitted to existing pneumatic conveying lines.
- Works at low pressure - no blow pots or pressure vessels.
- Low power consumption, low air volumes, smaller blowers & filters.
- Reduced wear on pipework, bends & in line valves, less maintenance.
- Constant conveying velocity along the length of the pipe.
- Applications: Bread Crumb; Granules; Powders, Extruded cereals & petfood.

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