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Densveyor®

the low velocity, dense phase pneumatic
conveyor for difficult-to-handle bulk materials



Macawber Engineering, Inc.

advanced pneumatic conveying systems
controlled rate injection systems
inflatable seat valves

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ISO 9001
COMPLIANT

Research · Testing · Design · Engineering · Manufacturing · Installation

Service Worldwide Since 1977

The Densveyor® Solution

- Abrasive, fragile or hot materials
- Virtually no degradation or separation
- Low energy cost per ton moved
- Reduced pipe and bend wear
- Low maintenance, reliable equipment

Denseveyor®

advanced features



macawber – denseveyor®

Smooth, low velocity, dense phase pneumatic conveying of powders, granules and irregular shaped materials with minimal degradation, segregation and wear.

A simple and cost effective system designed specifically to meet the requirements of customers and focusing on:

energy efficiency – leading the industry

The Denseveyor® is engineered to produce extremely high material to air ratios, resulting in low energy cost per ton of material conveyed.

- Moves material at low velocities using small air volumes, without a need for pipeline fluidization or air boosters
- Lowers horsepower (kW) requirements and reduces the run-time of the air compressor providing savings in energy consumption

reliability – proven over time

The Denseveyor® is designed to reduce the need for preventative maintenance and minimize downtime.

- Only one moving part, the Dome Valve®
- Fully automated with simple controls and minimal operator intervention
- Virtually no pipeline wear
- Service and support for full equipment life for all parts and components
- Equipment life span is 20 years or more
- Manufactured in the USA and crafted from high quality materials



true conveying versatility



Denseveyor®

cycle performance

typical sequence



versatility – design to fit

The Denseveyor® can be easily adapted to suit individual customer requirements and is capable of conveying a wide range of materials for various applications and industries.

- Designed for difficult to handle materials and arduous conveying conditions.
- Adaptable to high tonnage rates for short or long distances
- Available in carbon and stainless steel with numerous product contact coatings
- Temperature ratings up to 650°F (350°C)
- Low equipment profile able to fit into restricted and small locations

experience – nearly every industry worldwide for decades

The Denseveyor® has provided reliable and efficient solutions since 1977.

- Over 10,000 uniquely designed Denseveyor® systems worldwide
- All industries served
- Thousands of materials tested on site in full size testing laboratory
- Continuous innovation to provide solutions to existing and newly emerging markets and specific customer requirements

global support – customer focus

- Locations in the USA, Europe, China, India and Brazil
- Ability to meet local technical standards and regulations
- Worldwide customer support for service and spare parts

quality – excellence

- ASME Certified
- ISO 9001 Quality Assured
- Assembled and fully tested

dome valve® – the heart of the system

The Dome Valve® from the original designer, continuously improved for over 40 years.

- For applications where other valves fail
- The inflatable seal is not in contact with the closing member during opening and closing
- Closes and seals perfectly through most materials
- Operates effectively and reliably from 10 psi vacuum to 630 psi pressure

