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Transair: Advanced Air Pipe Systems For the Cement Industry



ENGINEERING YOUR SUCCESS.

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Innovative Compressed Air Piping Systems

Parker Hannifin manufactures a robust piping system with superior operational efficiency perfectly suited for the cement industry.

In cement plants, the equipment and materials used are subjected to significant environmental constraints such as dust, vibrations, and various natural outdoor elements. Furthermore, since cement is pulverulent, the atmosphere of these factories is consider explosive. This leads to an extensive use of compressed air. Therefore, you need to rely on a robust, energy efficient piping system that guarantees extensive reliability without a tremendous amount of maintenance.

Transair is an easy, durable, and flexible aluminum pipe system for compressed air applications. Quick connections eliminate the need to thread or solder pipe. The lightweight aluminum pipe makes it easy to handle for both indoor and outdoor installations. Transair piping solutions significantly reduces labor time as well as energy consumption, making it the most cost effective and efficient pipe system for the cement industry.

Technical specifications

- Maximum working pressure: 232* psi from -4°F to +115°F
- Vacuum: 98.7% (29.6" Hg)
- Working temperature: -4°F to +140°F
- Pipe sizes:
 - 16.5 mm (1/2")
 - 25 mm (7/8")
 - 40 mm (1 1/2")
 - 63 mm (2 1/2")
 - 76.2 mm (3")
 - 101.6 mm (4")
 - 168 mm (6")

*Max. working pressure for 6" is 188 psi

Transair's benefits include:

- Quick connection technology
- Removable and reusable
- Modular design
- No corrosion
- Energy efficient
- Full-bore design
- Lower install costs
- Optimum flow rate
- Leak-free guarantee
- Immediate pressurization
- Lightweight
- 10 year warranty

Ideal for Aggressive Environments

Transair is a durable system engineered with resistant materials and premium quality components.

Dust and outdoor installations widely accelerates the deterioration of compressed air systems. To combat these elements, Transair has specifically powder coated the outside of the pipe to enhance the mechanical, physical and chemical property. Furthermore, aluminum is naturally resistant to corrosion, which ensures extended longevity of equipment and can help to avoid frequent changes of filter elements.

Transair combines the innovation of a quick connect technology with the highest quality standards to bring you the safest, most durable and corrosion resistance compressed air piping system in the industry. All Transair components are guaranteed for 10 years, even in the most stressful environments.



Quick Connect Technology

Transair is a modular compressed air piping system with removable and interchangeable components for increased mounting flexibility.

Fast to install and easy to modify, Transair is the most versatile compressed air piping system available. Labor accounts for only 20% of the installation cost for Transair as compared to 50 to 80% for steel or copper systems.

Transair components are removable and interchangeable for immediate and easy layout modifications.

The modular design and handling ease enables cement plant personnel to implement many layout changes within minutes, not hours. This minimizes downtime and increases operational productivity and efficiency.

Compressed air applications:

- Cement production process
- Transportation of cement bags
- Prehomogenizing

Installation comparison:

- Galvanized pipe: 6 feet per hour
- Copper pipe: 8 feet per hour
- Transair pipe: 45 feet per hour

Example of the installation time for a Transair drop:

- Lateral dismantling of pipe: 1 minute 30 seconds
- Drilling of pipe: 2 minutes 30 seconds
- Mounting brackets: 45 seconds
- Remounting of pipe to the system: 1 minute 30 seconds



Optimum Flow with Reduced Energy Consumption

Reduced pressure drop, full bore design and the corrosion resistance of Transair can reduce energy bills up to 60%.

The cement industry's vision is to continually improve their contribution to sustainable development. Technology is a key pillar in the cement industry's drive to reduce emissions levels and energy consumption.

Research and development investments have enabled cement producers worldwide to install modern, energy-efficient technology in new, and to some extent, in existing, cement plants.

Compressed air represents one of the largest opportunities for immediate energy savings. Plant management is often surprised to hear that compressed air can represent 20 - 50% of a plant's electric bill. A facility's compressed

air piping selection directly affects three key elements of a system: flow, pressure and air quality.

Poor choices in pipe materials, diameter and layout often result in significant pressure drop. Pressure drop is a main cause of increased energy consumption and under-performing air driven tools and equipment.

The full bore design of Transair minimizes pressure drop for optimum flow and energy efficiency. Guaranteed leak-free connectors prevent air loss and wasted energy. Transair's aluminum pipe ensures a total absence of corrosion. The smooth bore surface consistently delivers clean

compressed air with optimal flow throughout.

Furthermore, Transair is an environmentally sustainable and responsible product, and reduces the carbon footprint by 80% over steel piping installations. The materials used to produce Transair pipe and fittings are 100% recyclable and guaranteed silicone free.

