



Transair®:

Advanced Pipe Systems for Industrial Fluids

For Compressed Air and Other Gas Networks in the Cement Industry

In Compliance with PED 2014/68/EU



ENGINEERING YOUR SUCCESS.

Cement Plant Environment

Transair® Pipe System Meets the Rigours of this Activity:

- **Dust is generated all along the production process.** It creates two major problems. First, it accumulates on every structure and deteriorates their surfaces. Second, in contact with cement and humidity, a traditional piping system oxidizes and ages faster.
- **Most of the networks have to be installed outdoors.** They are exposed to temperature variation, UV radiation, and weather changes that can damage them.
- **The average size of cement plants usually leads to poor efficiency on traditional piping systems.** Because of the length of pipes involved, leak detection and regular maintenance are difficult and expensive to realize.

Transair® Applications in Cement Plants:

- Pneumatics tools such as impactors, vibrators or special cylinders are used to replace the cement. Indeed, all along the cement production in wet and dry process plants raw material and cement powder are really light and regularly have to be re-centered in mixers and containers.
- Silos are fed with nitrogen (N₂) to decrease the amount of oxygen in the atmosphere. This prevents the risk of explosion.
- In order to mix them, raw materials are blown with compressed air in vertical silos.
- Cement bags are filled by Pulse Jet Collectors using compressed air.
- And more...

Transair® Benefits in Cement Plants:

- **Increased Flow Rate:**
Transair® piping system provides 30% more air respect to traditional pipes.
- **Energy Savings:**
No leak and less pressure loss on your networks can lead to a 20% energy savings for compressed air.
- **Modularity:**
Thanks to Transair®, it only takes 7 min to add a new outlet.
- **Lightness :**
A 6m length of 168 mm Transair® pipe only weighs 30kg reducing the possibility of overload.
- **Sturdiness :**
Transair® resists UV radiation, thermal shocks, weather variation and is corrosion free.
- **Longer Lifetime :**
Transair® Qualicoat painting provides chemical resistance to cement powder and makes them easy to clean. Plus, Transair® components are guaranteed 10 years, and are maintenance free.



Transair®: Advanced Pipe Systems



Aluminium Range

- **Calibrated Aluminium Pipe**
Qualicoat Painting
- **Diameters (in mm)**
16.5 - 25 - 40 - 50 - 63 - 76 - 100 - 168
- **Colours**
Available in blue - grey - green
Other colours upon request
- **Maximum Working Pressure***
 - 16 bar (-20°C to 45°C) up to 100 mm
 - 13 bar (-20°C to 60°C) for all diameters
 - 7 bar (-20°C to 85°C) for all diameters
- **Vacuum Level**
99,9% (1 mbar absolute pressure)
- **Working Temperature** : -20°C to 85°C
- **NBR Seals**
- **Compatibility**
Lubricated or oil-free compressed air, industrial vacuum, nitrogen (99.99% purity), inert gas

*TÜV certification

Stainless Steel Range

- **Stainless Steel Pipe**
AISI 304 or 316L
- **Diameters (in mm)**
22 - 28 - 42 - 60 - 76 - 100
- **Maximum Working Pressure***
 - 10 bar (-20°C to 60°C) for all diameters
 - 7 bar (-20°C to 90°C) for all diameters
- **Vacuum Level**
99,9% (1 mbar absolute pressure)
- **Working Temperature**
-20°C to 90°C
- **EPDM or FKM Seals**
- **Compatibility**
Cooling water, industrial water with additives, lubricating oil, compressed air, vacuum, inert gas

*TÜV certification

Certification



Transair® : Tools and Services



Transair® General Catalogue

Combines all information, regarding Transair® aluminium and stainless steel product ranges.

Available for download on www.parkertransair.com



Transair® Available for BIM

BIM - Building Information Modeling - is a collaborative e-platform of a construction project, gathering all the contributors of this project, according to a common language. All Transair® families are now available, in REVIT format, in **LOD (Level Of Detail) 200 and 400**.



Transair® Flow Calculator

Defines the recommended diameter for your project, estimates your pressure drops and gives the maximum flow rate by diameter.



Transair® Vacuum Calculator

Helps you to size and compare vacuum systems quickly and easily.



Transair® Energy Efficiency Calculator

Evaluates the energy cost of your system and return on investment of a Transair® solution.



Transair® CAD Drawings

View or download Transair® CAD drawings in real time in 2D or 3D.



Transair® Website: www.parkertransair.com

Gives you access to extensive information about the Transair® system, technical data, examples of existing networks and a download centre for catalogues, manuals, software and brochures.



Transair® Quotation Service: transair.quotation@parker.com

Gives you a budgeted or detailed quotation for your project and its implementation.

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