



Transair : Advanced pipe systems

For compressed air and other gas networks
in the cement industry.

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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.





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Aluminium range :

Calibrated aluminium pipes

Qualicoat painting

Diameters (in mm)

16,5 - 25 - 40 - 63 - 76 - 100 - 168

Many colours

Available in blue - grey - green

Other colours upon request

Maximum working pressure

16 bar (up to 100 mm)

12 bar (up to 168 mm)

Working temperature

-20° C to 60° C

NBR seals

Compatibilities

Lubricated or oil-free compressed air, industrial vacuum, nitrogen, argon, other gases...

Stainless steel range :

Stainless steel pipes

AISI 304 or 316L

Diameters (in mm)

22 - 28 - 42 - 60 - 76 - 100

Maximum working pressure

10 bar

Working temperature

-10° C to 90° C

EPDM or FKM seals

Compatibilities

Cooling water, industrial water with additives, lubricating oil. And also compressed air and other gases...

Certification



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BUL/T0034/UK



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