



Transair: Advanced Air Pipe Systems For Nitrogen Applications

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



ENGINEERING YOUR SUCCESS.

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Nitrogen (N₂): The First Gas in the Industry

- Nitrogen is the most common gas in the atmosphere. Nitrogen represents almost 78% of the atmospheric air.
- Nitrogen is colorless, tasteless, odourless and inert. Nitrogen is nonflammable and does not support combustion.
- Its chemical properties and the fact that it is easy to generate from atmospheric air makes nitrogen the most frequently used gas in industry (other than compressed air). Nitrogen is used in a wide range of applications in many different industries such as: food & beverage, steel making and other metal refining, glass and ceramics.
- Nitrogen is usually delivered in cylinders, however, liquid nitrogen is typically delivered in a bulk tank. Nitrogen can also be generated directly on site from compressed air.
- Nitrogen is often used to replace oxygen to prevent oxidation and protect food, metal products, etc.

> Nitrogen applications

Nitrogen for use as a blanketing gas:

- Transair conveys nitrogen to prevent fire and explosions. This applies to many different sectors such as construction, data storage warehouses, textiles, printing and paint manufacturing industries.
- Transair supplies nitrogen to protect products from degradation by replacing the atmospheric oxygen for industrial applications such as food & beverage, plastic injection, chemicals and healthcare.

Nitrogen for use in process industries:

- To treat molten metal manufacturing
- To avoid oxidation during the heat treatment of metallic products and during welding and laser cutting

Nitrogen used for special applications:

- In garages - filling tires with nitrogen increases the tires longevity

> Transair benefits

• Gas consistency:

Transair does not “damage” nitrogen properties throughout the pipe system (air quality).

• Modularity, flexibility and speed of installation:

It only takes seven minutes to add a new Transair nitrogen outlet.

• Lacquered pipes:

Transair's qualicoat provides an easy way to identify and differentiate within the piping system. It also protects the system for outside installations.

• Longer lifetime use:

Transair products are guaranteed for 10 years.

• Maintenance free:

All Transair products are developed to be maintenance free.

• Lightweight:

Transair can be easily supported and suspended, whatever the application.

• Cost savings:

Transair's optimal sealing can reduce nitrogen loss by eliminating leaks.

• Supply chain simplification:

A single source for all inert gas piping requirements with a choice of different colors (no painting required).



Transair: Advanced Pipe Systems



Aluminum range:

Calibrated aluminium pipes

Qualicoat powder coating

Diameters (mm)

16.5 - 25 - 40 - 63 - 76 - 100 - 168

Colors

Available in blue - grey - green
Other colors upon request

Maximum working pressure

232* psi from -4°F to +115°F

*Max. working pressure for 6" is 188 psi

Working temperature

from -4°F to +140°F

NBR Seals

Suitable fluids

Lubricated or oil-free compressed air,
industrial vacuum, nitrogen, argon (please
consult us for other fluids)

Stainless steel range:

Stainless steel pipes

304L

Diameters (in)

1/2 - 3/4 - 1 1/2 - 2 - 3 - 4

Maximum working pressure

1/2 - 3/4": 145 psi from -4°F to +185°F

1 1/2 - 4": 145 psi from -4°F to +140°F

Working temperature

1/2 - 3/4": from -4°F to +185°F

1 1/2 - 4": from -4°F to +140°F

Water hammer

1/2 - 3/4": comply with norm BS.7291 part 1

1 1/2 - 4": comply with norm NF T54-094

Suitable fluids

Cooling water, industrial water with additives,
lubricating oil, compressed air, inert gases

Certifications and Guarantees



Transair: Tools and Services



Transair Flow Calculator

- defines the recommended diameter for your project
- estimates your pressure drops
- gives the maximum flow rate by diameter



Transair Energy Efficiency Calculator

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



Transair Value Calculator

illustrates the typical savings achieved by installing Transair in place of traditional steel or copper pipe system.



CAD Drawings

gives you access to view or download Transair CAD drawings in 2D or 3D.