



## 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.

# Nitrogen (N<sub>2</sub>): 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 the 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 outdoor 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 technology 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.



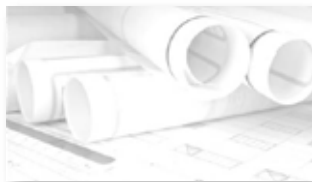
## CAD Drawings

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



## Website: [www.parkertransair.com](http://www.parkertransair.com)

gives you access to extensive information about the Transair solution, technical data, examples of existing systems and a download center for catalogs, manuals, software and brochures.



## Quotation Service

[transaircustomerservice@parker.com](mailto:transaircustomerservice@parker.com)

provides you a detailed quotation and drawing for an installed Transair system.

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