



Transair: Advanced pipe systems

For Nitrogen Applications

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



ENGINEERING YOUR SUCCESS.

NITROGEN (N₂): THE FIRST GAS IN INDUSTRY

- Nitrogen is the most common gas in the atmosphere. It represents almost 78% of the atmospheric air.
- Nitrogen is colourless, tasteless, odourless and inert. It is not flammable and does not support combustion.
- It's 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 has a wide field 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 and sometimes liquid nitrogen is delivered in bulk tanks. N₂ can also be generated directly on site from compressed air.
- N₂ is often used to replace Oxygen to prevent oxidation and protect food, metal products,...

> Nitrogen applications with Transair

Nitrogen for use as a blanketing gas:

- Transair conveys N₂ 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 N₂ 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 tyres with nitrogen increases the tyres longevity.

> Transair benefits

• Gas consistency:

The Transair piping system does not "damage" nitrogen properties throughout the pipework (air quality).

• Modularity, flexibility and speed of installation:

Thanks to Transair it only takes 7 minutes to add a new nitrogen outlet.

• Lacquered pipes:

Helps you in identifying and differentiating all your networks. 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 optimal sealing can reduce N₂ loss by eliminating leaks.

• Supply Chain Simplification:

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



TRANSAIR: Advanced pipe systems



Aluminium range:

Calibrated aluminium pipes

Qualicoat painting

Diameters (in mm)

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

Colours

Available in blue - grey - green
Other colours upon request

Maximum working pressure

16 bar (from -20°C to +45°C) up to 100mm
13 bar (from -20°C to +60°C) for all diameters

Vacuum level

98.7% (13 mbar absolute pressure)

Working temperature

-20°C to 60°C

NBR seals

Compatibility

Lubricated or oil-free compressed
air, industrial vacuum, inert 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 (from -10°C to +60°C) for all diameters
7 bar (from -10°C to +90°) for all diameters

Working temperature

-10°C to 90°C

EPDM or FKM seals

Compatibility

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

Certification



TRANSAIR: Tools and services



The Transair Flow Calculator

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



The Transair Vacuum Calculator

sizes your vacuum network with the most suitable diameter, with an estimation of any change in vacuum level.



The Transair Energy Efficiency Calculator

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



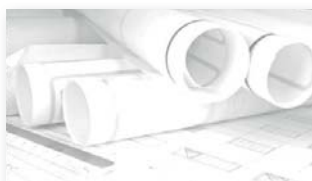
CAD drawings

you can view or download in real time Transair product plans in 2D or 3D.



Our Website: www.parkertransair.com

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



Our quotation service

transair.quotation@parker.com

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

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