



Transair® : Advanced Pipe Systems for Industrial Fluids

Standards and Certifications

In compliance with PED 2014/68/EU



ENGINEERING YOUR SUCCESS.



Transair® diameters from 25 mm (1") up to 100 mm (4")



Transair® diameter 76 mm (3")

Transair® Standards and Certifications

International Certification



ISO Certification

Parker Hannifin is certified **ISO 9001 version 2008** and **IATF 16949 v2016** for the Automotive industry and operates a Quality Management System in order to ensure the level of quality and service that is expected by its customers.

- ISO 9001-2008
- IATF16949 v2016



TÜV Certification

TÜV Rheinland certifies that Transair® fulfills regulatory requirements for pipes under pressure according to the German AD-2000 Merkblatt technical rules and to the European Pressure Equipment Directive 2014/68/EU.

- Attestation for Transair® Aluminium and Stainless Steel Ranges
- Transair® Aluminium Range Certificates
Ø63 - Ø76 - Ø100 - Ø168
- Transair® Stainless Steel Range Certificate Ø100



ASME B31.1/ B31.3

Transair® meets the requirements of **ASME B31.1** for non boiler external piping.

- which stipulates « the minimum requirements for the design, materials, fabrication, erection, test and inspection of power and auxiliary piping systems for industrial institutional plants.

- ASME B31.1 Compliance Certificate
- CRN
(Canadian Registration Number)



Transair® products are approved by the Technical Standards & Safety Authority (TSSA) and registered under the Canadian registration procedure (CRN). This allows the installation of Transair® products in Canada.

Pipe Standards

Qualicoat Label

Transair® complies with the **QUALICOAT** label which guarantee the quality of the painting process, the chemicals used, the finished quality and the coating resistance on the aluminium pipes.

- Qualicoat certificate



European Standards

Transair® piping system complies with **EN 755.2**, **EN 755.8**, **EN 573.3** for aluminium pipes and **EN 10088-2** for stainless steel pipes.

Those standards define mechanical and chemical properties of pipes.

- Standards EN 755-2, EN 755-8, EN 573-3
- Standard EN 10088-2



Transair® Standards and Certifications

Product Quality



Product Testing

All Transair® products are tested and controlled at every stage of the production process to ensure a maximum efficiency to the customer. They had to succeed a series of drastic tests: static and dynamic leak tests, burst pressure, cycled pressure and accelerated ageing tests.



10 Year Guarantee

Transair® products which does not function due to a manufacturing or material defect are guaranteed within a period of 10 years from the date of the installation.

- 10 year guarantee certificate



Product Traceability

Transair® tracks each production batch at any stage of its organisational and marking process. In addition and for logistic purposes, Transair® provides the origin of products. The chemical composition of Transair® pipes, based upon batch number and barcode, is listed into the material certificate (according to standard EN 10204).

- Long Term Declaration
- Certificate of origin
- Material Certificate (for pipes)

Air Quality



ISO 8573 Certification: 2001 & 2010 Classes 1.1.1

This international standard establishes the different quality classes of compressed air. Transair® has been successfully tested to reach the highest expectation of this standard. A Transair® distribution network will not contaminate the fluid with solid particles, water, moisture or oil.

- Air Quality certificate
- Oil free certificate

Labs Free and Silicone Free



The Transair® products are guaranteed silicone-free, which is mandatory for premium air purity applications such as painting. No need to add complementary filters which increase pressure drop.

Transair® products can meet with the demanding cleanliness requirements defined by the user, especially for paint and clean rooms applications.

- Silicone-free certificate
- Labs-free certificate

Neutral Gases & Purity



Transair® is adapted for distribution of non flammable gas such as : Argon, Nitrogen, Carbon Dioxide and mix of these gas.

Based on laboratory purity testing, Transair® (fittings and aluminium piping) is compatible with a 99,99% purity Nitrogen application.

- Nitrogen purity application certificate
- Compatibility with Argon
- Compatibility with Argon / CO₂ mixture
- Compatibility with Nitrogen

Vacuum



Transair® Aluminum and Stainless Steel ranges can be used for vacuum applications down to 1 mbar absolute pressure at the point of use.

- Vacuum certificate

Transair® Standards and Certifications

Environment



Parker Hannifin is certified **ISO 14001** for its Environmental Management System which lower its impact on the environment.



All Transair® products are in compliance with the **RoHS** and **REACH** directives which limit the use of hazardous substances.



Transair® has been specifically designed and produced to ensure a lower impact on the environment.



For example: a Life Cycle Analysis, from production of raw materials to end of product life, shows that the use of 168mm Transair® is 5 times less harmful to the environment than a traditional steel pipe system.

- ROHS & ELV Certificate of Compliance ISO 14001
- REACH regulation
- Eco-Design

Safety



- All Transair® components are non-flammable, with no propagation of flame.
- Transair® aluminium range is classified B s2 d0 according to EN 13501-1.
- The Transair® system, installed with fire protection for duct penetrations, is fire resistant and prevents the spread of any fire.
- Transair® is classified E 120 in accordance with EN 13501-2, equivalent to 120 minutes of fire resistance.
- Pipe-to-pipe and stud connectors, ball valves and butterfly valves: in accordance with UL 94 HB Grade.
- Flexible hoses : compressed air hoses conform to ISO 8030.



- Transair® blowgun complies with the following regulations: OSHA 1910.242 (b) for hand and portable powered tools, OSHA 1910.95 (b), Directive 2003/10/EC and INRS ED755 European recommendation for noise exposure.

- Euroclasses 13 501-1 Certificate Aluminium range
- Euroclasses 13501-2 Certificate Aluminium and Stainless Steel Ranges
- UL 94 HB Grade - Aluminium range
- UL 94 HB Grade - Stainless steel range 42 & 60 mm
- Compartment in fire of Transair® piping system
- OSHA certificate

CE Conformity



Transair® conforms the European Pressure Equipment Directive **2014/68/EU** for article 4.3 and category I module A, depending on the diameter of pipe and the working pressure.

The aims of Directive **2014/68/EU** are to maintain a sufficient level of safety in the tanks, generators and piping. It applies to the design, manufacture and conformity assessment of pressure equipment and assemblies with a maximum allowable pressure above 0.5 bar.

- CE certificate

Transair®: Advanced Pipe Systems for Industrial Fluids



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

Gathers 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 actors 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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