



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



## Transair : Advanced pipe systems for industrial fluids

Standards and certifications



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** (ISO TS 16949-2009 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.

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

- ISO 9001-2008
- ISO 14001-2004
- ISO 14001-2004
- ISO TS 16949-2009



### 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 97/23/CE.

- Transair aluminium range ø16,5 - ø25 - ø40 - ø63
- Transair aluminium range ø76
- Transair aluminium range ø100
- Transair aluminium range ø168
- Transair Stainless steel range



### 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.



### GOST certification

The **GOST certificate** of conformity means that imported products comply with Russian standards, quality and safety requirements. This certificate is necessary for customs clearance in Russia and for sale within the country.

- GOST certificate

## 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

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

## 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.

- Silicone-free certificate

## Neutral gases & purity



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

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 can be used for vacuum applications down to 10 mbar absolute pressure.

- Vacuum certificate

# TRANSAIR STANDARDS AND CERTIFICATIONS

## 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.



The Transair piping system is certified by **the Singapore Green Building Council** based on the following criteria: environmental impact during manufacturing, energy efficiency, recyclability and conformity to manufacturing standards.

- ROHS & ELV certificate of compliance
- REACH regulation
- Singapore Green Building Product Certification
- Eco-Design

## Safety



All Transair components are non-flammable with no propagation of flame.



- Pipe-to-pipe and stud connectors, ball valves and butterfly valves : conform to UL94HB
- Flexible hoses : compressed air hoses conform to ISO 8030, vacuum hoses conform to EN 12115
- Pipes' lacquer classified A2/M0 according to EN 13501-1



Transair blowgun complies with 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.

- UL 94 HB - Aluminium range
- UL 94 HB - Stainless steel range 42 & 60 mm
- Comportment in fire of Transair piping system
- OSHA certificate

## CE conformity



Transair conforms the European Pressure Equipment Directive 97/23/EC for article 3.3 and category I module A, depending on the diameter of pipe and the working pressure).

The aims of Directive 97/23/EC 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



## **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  
7 bar (from 20°C to +85°C) for all diameters

### **Vacuum level**

98.7% (13 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 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 pressure drops
- gives the maximum flow rate by diameter



## The Transair Vacum 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 the return on investment from installing a Transair system.



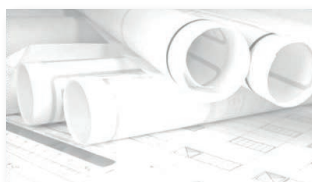
## CAD drawings

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



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



## Our quotation service

[transair.quotation@parker.com](mailto:transair.quotation@parker.com)

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



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