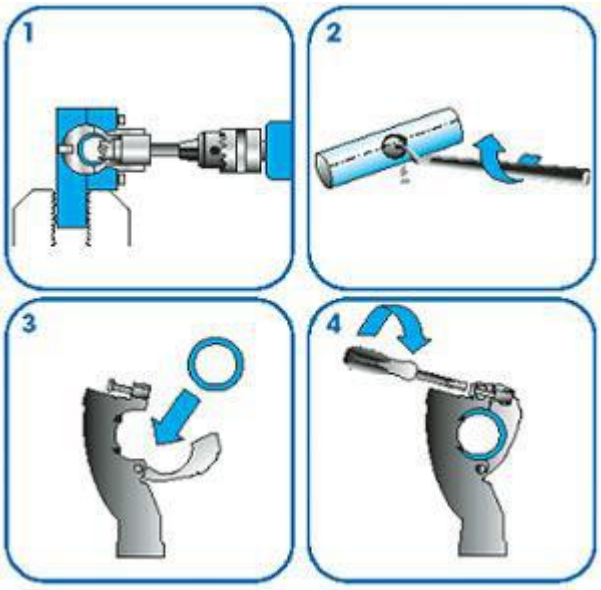
Parker Legris Transair

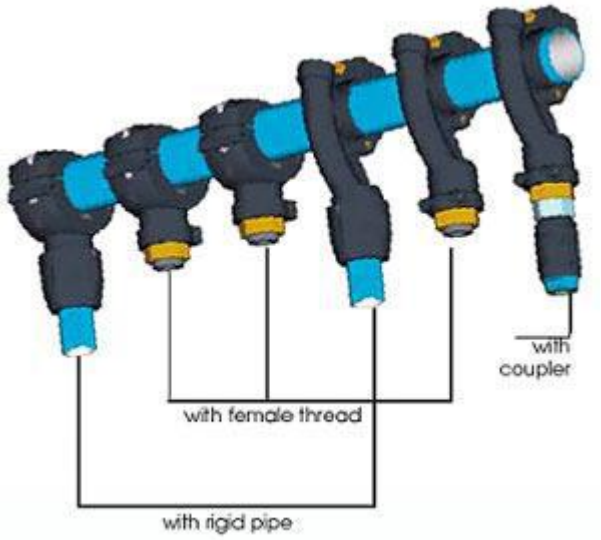
Quick Assembly

Transair® aluminum pipe systems are easy to assemble and easy to modify. Innovative technology at the heart of Transair® enables rapid and easy assembly: quick connection of the component to the aluminum tubing via push-to-connect fittings and valves. Various technologies take into account the specific requirements of each diameter of pipe and provide you with an optimum safety factor and easy connection.



Durable Protection of Equipment

Transair® aluminum piping completely eliminates corrosion and rust associated with steel compressed air pipe systems. Transair® aluminum pipe guarantees the complete absence of corrosion via self protection by formation of an aluminum oxide. This inner surface of Transair® aluminum pipe ensures quality clean air continuously.



Three Outlet Types for a Complete Range

Transair® also protects industrial equipment against water deterioration thanks to its quick assembly brackets with integral upward loop. Water stays is the header so the air drop is free of damaging water.

Optimum Efficiency of Machinery and Tools

Transair® provides the best distribution of compressed air. The full flow design of Transair® components, the small friction coefficient of Transair® aluminum pipe and the sealing characteristics of the Transair® system ensure optimal and consistent flow rates.

Overall Savings: Reduction of Installation, Operating, and Commissioning Costs

Transair® air pipe systems are quick to install and ready for immediate pressurization. Unlike anything else, Transair® air pipe systems meet production requirements. The lateral dismantling of the pipe makes it possible to easily insert a branch line or a drop to a new workstation. Anybody can do it, just drill a hole, attach a quick assembly bracket and push in a pipe and walk away!

Aluminum Transair® pipe is powder coated during its manufacture. Its blue color enables quick identification as a compressed air pipe system. The powder coating withstands bending of the pipe.

Not requiring welding or gluing, Transair® instant connection components ensure complete air tightness for immediate use. Transair® yields confidence.

Technical Data Sheets

Fluids: Compressed air, vacuum, inert gases including nitrogen and argon, water, and other fluids (fluids utilize a Stainless Steel 304 pipe with an EPDM seal.

Working Pressure: 13 mbar (0.19 PSI) to 16 bar (230 PSI) @ 140 F. Please consult us for other temperature ranges.

Working Temperature: -20°C to +60°C (-4°F to 140°F)

Safety: Resistant to mechanical shocks and fire resistant (all Transair® components are non-flammable, with no propagation of flame).

Material used:

- Engineering grade plastic (high resistance)
- Plated brass
- Stainless steel
- Powder coated aluminum

- Nitrile seals 100 % recyclable materials

Storage temperature: from -40°C to +80°C (-40°F to 176°F)

Resistant to compressor oils (mineral and synthetic)

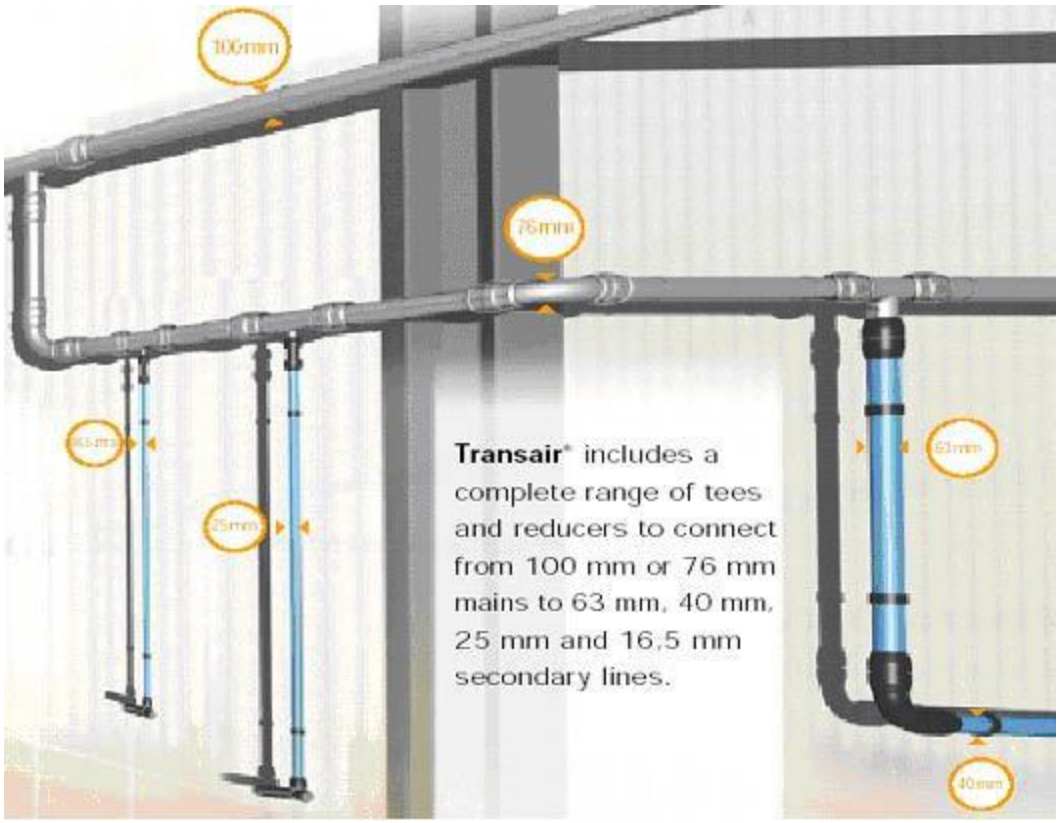
Certification and Norms

- Transair® meets the requirements of ASME B31.1
- Transair® conforms to European standard 97/23 CEE requirements (equipment under pressure).

Transair®, advanced air pipe systems

Transair® is an innovative aluminum pipe work system for the supply of air, vacuum, inert gases and fluids. Transair aluminum pipe is easy to assemble thanks to its rapid connection technology. Transair is warranted for a period of two (2) years.

Transair includes a complete range of tees and reducers to connect from 100 mm or 76 mm mains to 63 mm, 40 mm, 25 mm and 16.5 mm secondary lines.



Instructions

1. **Areas of application**
   Before installing Transair®, a responsible person should check that the area of installation conforms to regulations designed to prevent the risk of explosion (in particular the risks associated within silo zones)
   Transair® must be installed either after the air receiver or after the dryer. Flexible Transair® hose should be fitted at the beginning of the pipe system, in order to counter the vibrations found in any compressed air system. When maintaining or modifying the Transair® pipe system the work must be undertaken only after the compressed air system has been vented. The installer must use only Transair® components and accessories, and in particular, Transair® pipe clips. No other type of pipe mounting method is to be used without consulting the factory. The technical characteristics of Transair® components as expressed in the catalogue must be respected.
2. **Starting the installed system**
   Once assembled, the operation of the Transair® installation is the responsibility of the installer who, prior to use, must complete all necessary tests. The installer must also ensure that the installation has been properly carried out in line with the instructions and that it meets all legal requirements.
3. **Transair® pipe**
   Care should be taken to protect pipes against mechanical shocks – especially when close to the passage of fork-lift trucks or where suspended objects are being moved. Equally all excessive rotational movements which could lead to disconnection, whether on the pipes

or the supports, must be avoided. Transair® rigid pipes must not be bent (formed) or welded. Flexible Transair® hose must be used in accordance with the instructions in the catalogue.

4. **Contraction/expansion**
   The performance of the Transair® system is maintained when the effects of expansion or contraction are properly taken into account.
5. **Assembling the components**
   To ensure proper installation Transair® components are supplied with an "Assembly Guide". The installer must follow with care the precise instructions as described in the guide as well as the catalogue
6. **Supports**
   When suspending from a ceiling Transair® pipe clips should be fixed to a rigid support (U channel, cable tray, threaded rod, etc). This type of support ensures that the clips stay in alignment which allows the pipe to expand and contract.
7. **Observations**
   When using Transair® the following situations must be avoided:
   a. embedded in a solid mass (concrete or injected foam)
   b. fixing other external elements to Transair® pipe (other than blowguns, plastic tubes etc. with a maximum weight of 440 lbs. between 2 clips).

WARNING: Installation and assembly must be completed as set forth in the Installation Guide and Assembly Guide. Failure to comply precisely with these instructions can cause unsafe operating conditions and serious personal injury or death. Compressed air systems involve inherent hazards, and if pieces are not properly assembled and installed, end pieces could blow off, creating the potential for serious injury to those in the area, and pipe and joint breakage and air leaks may occur, exposing those in the area to the risk of injury from air under pressure or from falling or moving pipes or other parts of the system. Take particular care with installation of end caps and wall brackets. Additional requirements include:

- Only compatible **Legris** products may be used together and included in any installation. Fittings are very sensitive to sizes, so proper parts must always be used.
- For **Transair®** installation outdoors, please consult factory.
- The **Transair®** installation must not be embedded in a solid mass, such as concrete, injected foam, or similar materials.
- The **Transair®** installation must not be in water or any other liquid.
- The **Transair®** installation is to be used only for compressed air, for other fluids please consult the factory.
- The **Transair®** installation may be attached to a ceiling only if the clips are fixed to a solid base or 3/8" threaded not hangers. The base must allow a proper alignment of pipe clips in order to ensure their stability and efficiency when normal expansion and contraction occur.
- The **Transair®** installation must be protected against mechanical and other shocks and impacts, and particular care must be taken to protect tubes and other components in areas where forklift trucks, other moving vehicles, moving equipment, or other activity creates a risk of contact with the Transair® system.
- **Transair®** rigid tubes must not be bent, welded, twisted or deformed. Such conduct decreases the strength and integrity of the tubes.
- Other external components (except for compatible **Legris** components) may not be attached to the **Transair®** assembly. Excessive weight on the system increases stress on the system and increases the risk of failure or leakage.
- The **Transair®** system may not be used as a support or to convey conduit or other electrical systems.
- The effects of expansion and contraction in the particular application must be considered, to avoid having components become deformed, leading to failure.
- All of the technical characteristics of the **Transair®** system must be taken into account in the installation and assembly for the particular application. The technical characteristics are found in the **Transair®** catalog and the installation guide.
- All **Transair®** assembly and installation must be done by properly trained personnel familiar with the products, their characteristics, their limitations, the hazards involved, OSHA and other applicable safety requirements, and the assembly and installation requirements.
- The **Transair®** products and installation must be serviced only by trained and certified personnel as described above.
- The **Transair®** installation must meet all safety standards in OSHA or any other applicable regulations, requirements or standards.
- Air pressure in the system must not exceed 235 PSI. Higher pressures increase the risks of breakage and leaks.
- The **Transair®** system may not be used in an environment with ambient temperatures in excess of 140° F. Such temperatures may cause leakage in seals.
- The air pressure must be turned off during assembly, installation, repair, service or replacement.
- The **Transair®** system should be pressure tested after installation is complete, but before the system is put into operation. Likewise, the system should be pressure tested after any servicing or repairs, and after any abnormal circumstances, such as extreme temperatures or physical shock.
- Some compressor oils may cause damage to fitting seals. Use only lubricants approved by Legris.
- All procedures and descriptions in the Installation Guide must be followed.

Failure to follow these requirements will increase the risk of serious injury, as well as increase the likelihood of operating failures.