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## Transair: Advanced Air Pipe Systems

For the Power Generation Industry



ENGINEERING YOUR SUCCESS.

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# Innovative Compressed Air Piping Systems

For the power generation industry, Parker Hannifin delivers quality compressed air for superior operational capacity.

In today's power generation industries, compressed air is absolutely everywhere! Whether you are involved in the transportation and distribution of natural gas to the consumer, or in the production of electricity via fossil fuel burning, hydroelectric dams or even nuclear fission, compressed air systems are playing a vital role in ensuring plant reliability and round-the-clock operation. Over 70 percent of companies use compressed air for some aspect of their operations' and this is certainly the case in the power generation sector where it is used extensively for many different applications.

## Transair's benefits include:

- Quick connection technology
- Removable and reusable
- No corrosion
- Energy efficient
- Modular design
- Full-bore design
- Lower install costs
- Optimum flow rate
- Leak-free guarantee
- Immediate pressurization
- Lightweight
- 10 year warranty

Transair is the ideal compressed air piping system for industries that demand reliability, versatility, clean air and improved safety for the vast array of applications within the power generation industry. Transair consists of high quality quick connect elements that distinguishes itself through flexibility and ease of installation, meeting the design and production requirements of the power generation industry.



## Improved Safety

Transair's joining technology eliminates workers' exposure to a potentially harmful work environment.

Typical reasons cited for choosing compressed air are that it is a clean, safe, simple and efficient utility, producing no dangerous exhaust fumes or other harmful by products. It is equally easy to store in purpose-built tanks, making it ideal for use in areas where no other power is available or practical.

Compressed air can be used where other energy types would pose a potential explosion hazard or fire risk and it can also function at extremes of temperatures, making it ideal for the demands of a power plant.

Transair's quick connections eliminate the need to thread or solder pipe, therefore, further eliminating the risks associated with the use of flames. In addition, our products are lighter, cleaner and easier to install than traditional piping systems.

Known for innovative piping solutions, Transair takes safety to a whole new level. Transair conforms to the following safety certifications: UL94HB standard for the connectors and valves, UL94V-2 for the fixing clips, and ISO 8030 / EN 12115 for the flexible hoses.

## Technical specifications:

- Maximum working pressure: 232\* psi from -4°F to +115°F
- Vacuum: 98.7% (29.6" Hg)
- Working temperature: -4°F to +140°F
- Pipe sizes:
  - 16.5 mm (1/2")
  - 25 mm (7/8")
  - 40 mm (1 1/2")
  - 63 mm (2 1/2")
  - 76.2 mm (3")
  - 101.6 mm (4")
  - 168 mm (6")

\*Max. working pressure for 6" is 188 psi



# Clean Air for Optimal Machine and Tool Efficiency

The low friction coefficient of aluminum pipe ensures clean air quality throughout.

Compressed air is used in all types of power generation plants. Compressed air is relied upon to keep processes running. High quality oil free air is the first choice in power generation as a reliable source in these plants. Downtime can cost thousands in lost production and penalties.

To address the needs of critical applications where air purity is essential, the ISO 8573-1 compressed air standard provides a comprehensive measuring methodology. All of Transair's products have been tested to conform to this air quality standard. This confirms that Transair's entire product range delivers clean dry air.

Conformance to the ISO 8573 -1 standard illustrates our commitment to providing clean dry air and the highest quality engineered piping systems. Therefore, Transair's consistent clean quality air from compressor to machines, ensures superior longevity of equipment without frequent changes of filtration elements. All while providing optimal machine and tool efficiency.

Transair delivers quality air exactly where you need it, at the right pressure and at the lowest possible cost, no matter whether the project is an extension, modification or a new installation.

## Reliable, Economical and Certified

Transair significantly increases plant productivity by increasing efficiency, reducing pressure drops, and eliminating leaks.

For the power generation industry, the air quality is just as important as the compressed air system's overall reliability.

Piping selection directly affects the reliability of any compressed air system in terms of flow, pressure and air quality. Poor choices in pipe materials, diameter, and layout cause flow restrictions, which often results in significant pressure drop. Pressure drop is a main cause of increased energy consumption and under-performing air driven tools and equipment.

Unlike the performance of steel and copper, which degrades over time due to corrosion, Transair provides clean air quality with optimum flow rate performance. Transair provides more air flow with less pressure drop thanks to its smooth inner surface, significantly reducing your operating costs.

If the pipe system itself is not designed for compressed air, there is a good chance that much of the costs associated with commissioning the system and producing compressed air are going out the window - quite literally!

In traditional piping, such as copper and steel, friction and leaks often cause pressure drop between the compressor output and the eventual point of use. However, the flow characteristics of Transair's smooth bore aluminum pipe are crucial in helping to reduce the pressure loss through the system. The sealing characteristics of the fittings guarantee a leak-free system.

Transair technology is well known for its high quality and performance. Transair is certified ISO 90001 version 2000 and operates a Quality Management System in order to ensure the level of quality and service that is expected by its customers. Transair guarantees the safety and quality of its products with certifications by TÜV, Qualicoat and ASME B31.1 / B31.3. Transair also conforms to European standard 97/23 CEE requirements (equipment under pressure).

Parker Hannifin also warrants its Transair products to be free of defects in material and workmanship for a period of ten years from the date of purchase of the products.

