



EXOTIC
AUTOMATION & SUPPLY

PARKER TRANSAIR® 8 INCH PIPING SYSTEM SPECIFICATION SUBMITTAL



Date: ____/____/____

Project Information: _____

Engineer: _____

Contractor: _____

Submitted by: _____

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A. SUBMITTAL FOR PARKER TRANSAIR®

1. About Parker Hannifin Corporation:

Transair® is part of the Parker Hannifin Corporation (NYSE: PH), which was founded in 1918. With annual sales exceeding \$14 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems. Transair® has more than 750,000 installations worldwide.

1.1. About Transair®:

Parker Transair® is a fast, flexible, and easily modified pipe system for compressed air, vacuum, inert gas, water transfer, and chemical transfer applications. Durable and corrosion-resistant, Transair® lightweight construction outperforms traditional piping systems. End-users can quickly reconfigure production layouts and Transair® versatile, quick-connect system eliminates the need to thread or solder pipe. Transair® also reduces plant energy costs by increasing efficiency, reducing pressure drops, and eliminating leaks.

2. Parker Transair® System:

The air distribution system shall be of the instant connection type and shall be manufactured to the quality system of **ISO 9001-2015**, comply with **ASME B31.1** (Power Piping – ASME Code for pressure piping).

2.1. Parker Transair® Submittal

Parker Transair® products shall be shown on drawings and product submittals and shall be specifically identified with the name “**Parker Transair®**” or specific **Parker Transair® part numbers**.

2.2. Rigid Aluminum Pipe

The pipe shall be rigid and manufactured in Aluminum of AW-6060 T51 or AW-6063 T5 as defined in ASTM B221. It shall be extruded and calibrated within the tolerances for specific diameters of the Parker Transair® grooved fittings. The pipe has been qualified, as defined by ISO 9001-2015, to warranty gripping and leak-tight performance of the system. The pipe shall be either blue powder coated in RAL 5012, grey powder coated in RAL 7001 or green powder coated in RAL 6029 with Qualicoat certified to warranty mechanical, physical, and chemical properties. Markings on the pipe will indicate the Transair® brand, the internal and external dimensions, batch number and Country of Origin. The pipe shall also have two marker lines at angle of 0° and 90° to indicate drilling positions for take-off connector. The 8-inch pipe is available in the following diameters and lengths:

Outside ø (in)	Outside ø (mm)	Inside ø (in)	Inside ø (mm)	Wall Thickness (in)	Lengths (feet)
8.64	219.53	8.36	212.54	0.148	20

2.3. Fittings

- **220mm (8in)**

All connectors shall be instant grooved connection. They shall incorporate a lateral dismantling feature for the rigid pipe. The connectors shall be manufactured in aluminum cast with Nitrile or FKM seals.

- **Drop Brackets**

Quick to install by drilling one hole on the rigid pipe. Designed on a single body, they shall be manufactured in galvanized steel.

3. Performance Criteria

Approved for compressed air (dry, wet, lubricated), vacuum, and inert gases (Argon, Helium, Nitrogen, CO2 mixes).

- **Working Pressure/Temperature:**

150 psi from -4°F (-20°C) to +140°F (+60°C)

Vacuum: - 29.6" Hg vacuum

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

- **Safety:** Components are non-flammable with no propagation of flame.



4. Certifications and Compliance

- **ISO 9001-2015:** Parker Hannifin is certified ISO 9001-2015 and operates a Quality Management System to ensure the level of quality and service that is expected by its customers.
- **QUALICOAT compliance:** Parker 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 aluminum pipes.

5. Engineering Standards

- **ASME B31.1:** Parker 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.
- **ASTM B221:** Extruded aluminum pipe conform.

6. Parker Transair® Advantages

- Energy efficient
- Simple installation
- Quick connect technology
- Immediate pressurization
- Removable and reusable
- Modular design
- No corrosion
- Leak-free guarantee