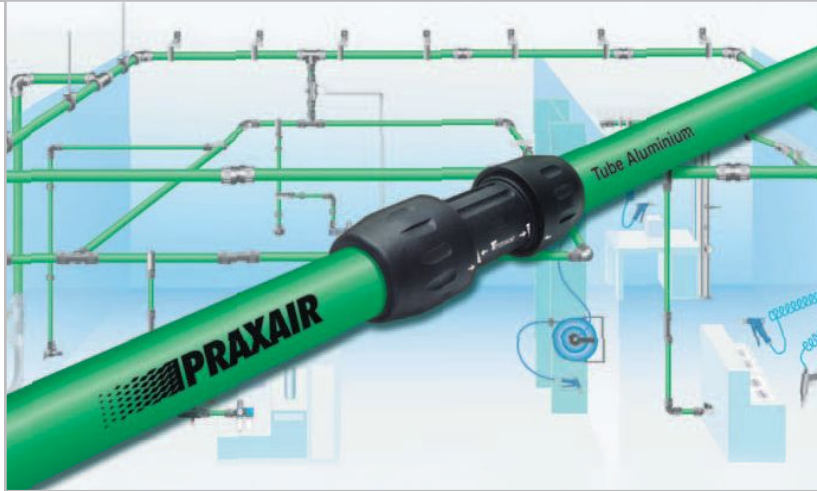


Transair™ Pipe System for Inert Gases

Argon, Nitrogen and Argon/CO₂ Mixtures



Transair can be integrated into existing copper and steel piping systems without compromising performance, making it perfect for upgrades or expansion projects.

Applications

Convenient & Flexible

Cost Effective

Quality

Safety

Transair is a fast, flexible and easy to modify aluminum pipe system for inert gas and compressed air applications. Transair components are reusable and interchangeable, which enables immediate and easy layout modifications.

Push-to-fit quick connections and the elimination of soldering, threading and gluing helps reduce installation and maintenance time and costs when compared to traditional pipe.

Unlike the performance of steel or copper, which degrades over time due to corrosion, Transair provides clean air quality with optimum flow rate performance.

Transair aluminum pipe ensures a total absence of corrosion, prevents problems caused by rust, which affects galvanized steel systems, and helps ensure the longevity of equipment. The “full bore” design of Transair components, the low friction coefficient of aluminum pipe, and the sealing characteristics of the system ensure optimal and constant flow throughout.

Suitable Gases

- ▶ Argon and Nitrogen

Materials

- ▶ Pipe: Powder-coated aluminum
- ▶ Hoses: Black SBR with synthetic braiding reinforcement
- ▶ Connectors: Polyamide with fiberglass and plated brass
- ▶ Made from 100% recyclable materials

Fire Resistance

- ▶ All components are nonflammable, with no flame propagation
- ▶ Working pressure: 29.6” Hg vacuum to 232 psi
- ▶ Working temperature: -4°F to +140°F

Conformance

- ▶ Aluminum pipe: conforms to ASTM B241, EN 755.2 and EN 755.3 Meets the requirements of ASME B31.1 and ASME B31.3
- ▶ Connectors: conform to UL94HB
- ▶ Mounting clips: conform to UL94V02

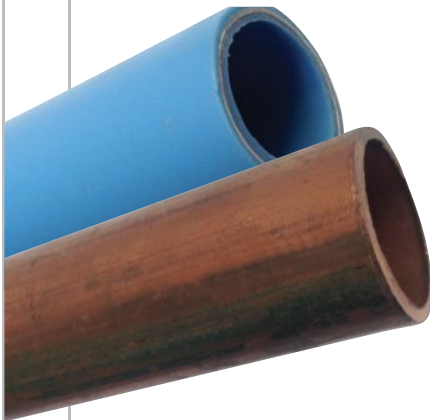
1-800-225-8247



Additional Piping Options

Aluminum/HDPE and Copper Piping Systems

Duratec® Aluminum/HDPE



Modern process equipment, controls and instrumentation require a supply of clean, uncontaminated air, prompting new piping systems like *Duratec*.

Constructed of an inner and outer layer of HDPE sandwiched over an aluminum core, *Duratec* Air Line is a lightweight, clean, non-corroding compressed air and inert gas distribution system.

Duratec's polyethylene inner liner provides a lifetime of smooth flow.

Unlike metal piping, *Duratec* will not scale, pit or corrode, delivering constant flow with no increase in pressure drop over time.

When engineered with a mix of polyethylene, the aluminum core provides strength, rigidity, flexibility and toughness. The outer polyethylene layer provides permanent blue color coding and chemical, corrosion, UV and moisture protection to ensure long system life.

Construction	Size (in)	ID (in)	ID 9 (mm)	OD (in)	WL lb/100 ft	Max Pressure Compressed Air (psi)
PE-AL-PE	3/8	.346	9	.48	6.8	200
PE-AL-PE	1/2	.500	12	.63	10.1	200
PE-AL-PE	3/4	.806	20	.98	13.7	200
PE-AL-PE	1	1.032	25	1.26	23.0	200

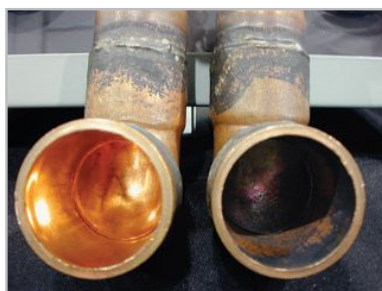
Copper Piping

Copper grades K or L accept grade L fittings. The copper is annealed by the brazing process. Pipe must be washed, capped and cleaned for oxygen service to maintain low-hydrocarbon content of oxygen, nitrogen,

argon, hydrogen, CO₂, helium, or mixtures of these gases.

Copper is brazed using a phosphor copper silver alloy with a nitrogen internal purge to prevent copper oxide from forming inside the

copper tube. Hydrocarbon outgassing is essentially zero, and inboard diffusion of water is determined by the design of the valves used in the system.



Correctly Purged and Incorrectly Purged

Nominal Size (in)	S=6000 psi 100°F	S=5100 psi 150°F	S=4900 psi 200°F
1/4	912	775	745
3/8	779	662	636
1/2	722	613	589
5/8	631	537	516
3/4	582	495	475
1	494	420	404
1-1/4	439	373	358
1-1/2	408	347	334
2	364	309	297