

Compressed Air and Inert Gas Piping Systems



Duratec[®]
AIRLINE SYSTEM



INDUSTRIAL SYSTEMS

**THE PERFORMANCE OF PLASTIC
WITH THE STRENGTH OF METAL**

- 3/8", 1/2", 3/4" and 1" sizes
- Operating Pressures 200psi at 73°F,
160psi at 140°F


IPEX

We build tough products for tough environments[®]

THE DURATEC ADVANTAGE

Duratec is an innovative compressed air and inert gas distribution system designed to be absolutely leak-proof, installed quickly and easily, and maintained cost-effectively. As a result, Duratec saves you time and money.

Traditional metallic compressed air systems are a main cause of unnecessary energy use, excessive wear and tear on compressors and high consumption of compressor oils and filters. The culprits? Corrosion and leakage at pipe joints and fitting connections which often go undetected until they're discovered during a detailed compressed air system audit.

Duratec pipe comes in long 100 foot or 300 foot coils, which significantly reduces the number of joints in your system. Duratec fittings feature unique double o-ring seals to ensure long-term joint integrity. And the entire Duratec system can be easily and quickly installed, modified or expanded without the need for specialized equipment.



ANSI / ASTM F1282

CSA B137.9

FDA Compliant



HDPE ———●
Aluminum ———●
HDPE ———●



**National CRN
OA02020.2C**

CSA B51, B137.9

ASTM F1974

ASME B31.3, B31.9

**Certified to OSHA
Safety Regulations**

FEATURES & BENEFITS

LOW INSTALLATION COSTS

Duratec reduces costs on a typical installation not only for materials but also for labour and transportation costs when compared to traditional materials. How? Duratec's lightweight construction and simple assembly procedures which include:

- ✓ **Ease of Handling**
Duratec is 75% lighter than the equivalent diameter of copper and SCH 40 carbon steel.
- ✓ **Quick Removable Connections**
Threading is not required. All joints have double o-ring seals and can be quickly assembled or disassembled. Easy on-site modifications and repairs can be made.
- ✓ **Quick Installation**
No special training or equipment is required to complete a Duratec system.
- ✓ **Fewer Fittings**
Duratec pipe comes in convenient 100 ft. and 300 ft. coils eliminating several joints and the need for threading, or soldering.
- ✓ **Flexible Yet Rigid**
Due to its composite structure, Duratec pipe can be easily bent by hand and will maintain its desired shape. This unique feature allows for straight, professional looking installation and eliminates sagging.

LOWER OPERATING COSTS

Due to Duratec's advantages over metal systems, it costs you less time, labour and money to keep a Duratec system in optimal condition.

- ✓ **Pressure loss means money loss**
Metal systems can lose pressure due to pin-hole leaks and leakage at connections, all of which result in increased energy costs. Duratec's high-quality construction, on the other hand, guarantees consistent pressure for years to come.
- ✓ **Smooth Interior**
Less friction means lower pressure drops and higher flow rates. This may allow for smaller pipe sizes to be used.

EXTENDED LIFE

Duratec is designed not to rust, scale or pit. Once properly selected for the application and correctly installed, Duratec Airline Systems will provide years of maintenance-free service because they are:

- ✓ **Corrosion Resistant**
Duratec's tough outer HDPE layer protects it against corrosion and deterioration and ensures long service life even in the most aggressive manufacturing environments. Its inner HDPE layer is unaffected by inert gases and commonly-used compressor oils. Combined with its industrial nickel-plated Duratec fittings, the system provides long-term performance superior to metal piping systems.
- ✓ **Clean**
All Duratec pipe is packaged in cardboard boxes preventing contamination before use. The smooth HDPE inner layer cannot rust, corrode or form loose scale. Clean air remains clean throughout the life of the system.
- ✓ **Safe**
Duratec's unique composite construction means that accidental impact or puncture of the pipe results in a safe, ductile mode of failure. Duratec pipe has been third-party tested and certified to stringent OSHA safety requirements for compressed air systems, standards that guarantee safety comes first.

IPEX engineered Duratec pipe and fittings to provide top-notch performance. Rated for long term continuous operating pressures of 200psi at 73°F and 160psi at 140°F, Duratec pipe and fitting assemblies are also capable of sustaining quick burst pressures in excess of 800psi. This built-in safety factor ensures system performance and provides peace of mind for designers and facility managers.



Duratec uses a unique and cost-effective D1 nickel-plated brass insert fitting for easy connections. All Duratec fittings are protected with a corrosion-resistant, industrial-strength nickel plating and include double o-ring seals ensuring joint integrity. Select fittings are also available in 316 stainless steel.



QUICK INSTALLATION

Cutting and joining Duratec is fast and simple.

1. Cut pipe square using plastic pipe cutter.
2. Slide nut and split ring over pipe and bevel the inside of the pipe by inserting then rotating the beveling tool.
3. Push the fitting into the pipe.
4. Turn the nut finger tight plus one full turn with a wrench.



APPLICATIONS

- Plant air
- Inert gas distribution
- Manufacturing hand tool operation
- Manual and automated welding operations
- Semi-conductor tool hook up
- Valve actuation - control systems
- Microbulk inert gas delivery systems
- Robotic installations



Duratec[®]

AIRLINE SYSTEM

THE BEST OF METAL AND PLASTIC COMBINED

Duratec is an innovative new compressed air and inert gas piping product that uniquely combines all of the benefits of plastic and metal in one pipe. Constructed of an inner and outer layer of HDPE sandwiched over an aluminum core, Duratec not only extends the life of the system, but significantly reduces leakage, saving you time, labour and operating costs.

ALUMINUM

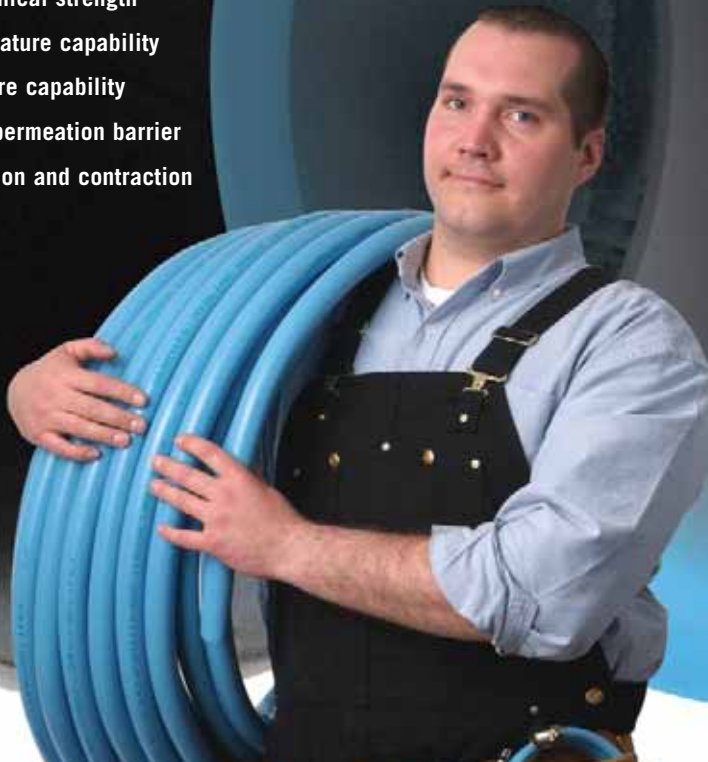
- Rigidity
- No memory – "stays where it lays"
- High mechanical strength
- High temperature capability
- High pressure capability
- Permanent permeation barrier
- Low expansion and contraction

Duratec[®]

AIRLINE SYSTEM

HDPE

- Lightweight
- Corrosion proof
- Flexibility
- Ease of installation
- Improved air/gas quality
- No scaling
- Condensation resistance



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