

POLY[®]CONN

Servicing Your Pneumatic Needs For Over 40 Years

DURATEC AIRLINE PIPING SYSTEM

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QUESTIONS

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Features and Specifications for Duratec Airline Piping System

Duratec® is an innovative compressed air and inert gas distribution system designed to be leak proof, installed quickly, easily, and maintained cost-effectively. As a result, the Duratec® Airline Piping System 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 liters. Corrosion and leakage at pipe joints and fitting connections which often go undetected until they are discovered during a detailed compressed air system audit. Duratec® pipe comes in 100' or 300' 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. the entire Duratec® system can be easily and quickly installed, modified, or expanded without the need for specialized equipment. All compressed air and inert gas pipe in sizes 1" and smaller are PE-AL-PE composite pipe made with raised temperature polyethylene and aluminum conforming to ASTM F1282 and CAS B127.9. All compressed air and inert gas fittings in sizes 1" and smaller are nickel plated brass (or stainless-steel limited options) and shall conform to the dimensional and physical requirements of ASTM F1974 and CSA B137.9.

FEATURES

USES

- Low installation costs Quick installation Ease of handling Fewer fittings used
 - Quick removable connections Flexible yet rigid
 - Low operating costs Extended life
 - Meets OSHA and NSF standards
- 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.

SPECIFICATIONS

PRODUCT	TEMPERATURE RANGE	PRESSURE RANGE	MATERIAL
Duratec Airline Pipping System	34°F to 200°F (1.1°C - 93.3°C)	0 - 250 PSI	Brass

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

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.

Clean: All Duratec pipe is packaged in cardboard boxes preventing contamination before use. The smooth PE-RT inner layer cannot rust, corrode, or form loose scale. Clean air remains clean throughout the life of the system.

Flexible Yet Rigid: Due to its composite structure, Duratec pipe can be easily bent by hand and will maintain its desired shape up to the bending radius of five (5) times the diameter of the pipe. 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, labor, 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.

Corrosion Resistant: Duratec's tough outer PE-RT (Polyethylene of Raised Temperature) layer protects it against corrosion and deterioration and ensures long service life even in the most aggressive manufacturing environments. Its inner PE-RT layer is unaffected by inert gasses and commonly used compressor oils. Combined with its industrial nickel-plated Duratec fittings, the system provides long-term performance superior to metal piping systems.

Fewer Fittings: Duratec pipe comes in convenient 100' and 300' coils eliminating several joints and the need for threading, or soldering.

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.

Performance: Duratec pipe and fittings are engineered to provide top-notch performance. Rated for long term continuous operating pressures of 200 PSI at 73°F and 160 PSI at 140°F, Duratec pipe and fitting assemblies are also capable of sustaining quick burst pressures in excess of 800 PSI. Duratec pipe can be placed underground as long as it is below the frost line.

DURATEC PIPE



Part #	ID Pipe	QTY
PCDP-500-4	1/2"	100
PCDP-500-4-R	1/2"	300
PCDP-750-4	3/4"	100
PCDP-750-4-R	3/4"	300
PCDP-1000-4	1"	100
PCDP-1000-4-R	1"	300

UNION REDUCER



Part #	PI	Pipe-In A	QTY
PC54-DOTS-42	1/4"	1/8"	1
PC54-DOTS-44	1/4 "	1/4"	1

DROP EAR 90°



Part #	Pipe-In	QTY
PC62-DOT-1	5/32"	1

CAP



Part #	PI	A
PC61D-8	1/2"	1
PC61D-10	3/4"	1
PC61D-12	1"	1

UNION



Part #	PI	A
PC62D-88	1/2"	1
PC62D-1010	3/4"	1
PC62D-1212	1"	1

ADAPTER



Part #	PI	NPT M	A
PC54-DOT-42	1/4"	1/8"	1
PC54-DOT-44	1/4 "	1/4"	1
PC54-DOT-46	1/4 "	3/8"	1

UNION TEE



Part #	Pipe-In	QTY
PC64D-8	1/2"	1
PC64D-10	3/4"	1
PC64D-12	1"	1

UNION TEE REDUCER



Part #	PI-A	PI-B	PI-C	QTY
PC64DR-1088	3/4"	1/2"	1/2"	1
PC64DR-10810	3/4"	1/2"	3/4"	1
PC64DR-10108	3/4"	3/4"	1/2"	1
PC64DR-12128	1"	1"	1/2"	1
PC64DR-121010	1"	3/4"	3/4"	1
PC64DR-121210	1"	1"	3/4"	1

UNION ELBOW



Part #	Pipe-In	QTY
PC65D-88	1/2"	1
PC65D-1010	3/4"	1
PC65D-1212	1"	1

FEMALE CONNECTOR



Part #	Pipe-In	NPT F	QTY
PC66D-88	1/2"	1/2"	1
PC66D-1010	3/4"	3/4"	1
PC66D-1212	1"	1"	1

FEMALE THREAD TEE



Part #	PI	NPT M	A
PC67D-888	1/2"	1/2"	1
PC67D-10108	3/4"	1/2"	1

MALE CONNECTOR



Part #	Pipe-In	NPT M	QTY
PC54-DOTS-42	1/2"	1/2"	1
PC54-DOTS-44	3/4"	3/4"	1
	1"	1"	1

MALE CONNECTOR STAINLESS STEEL



Part #	Pipe-In	NPT M	QTY
PC68D-88-SS	1/2"	1/2"	1
PC68D-1212-SS	1"	1"	1

BALL VALVE



Part #	Pipe-In	QTY
PC62-DOT-1	1/2"	1
	3/4"	1
	1"	1

WALL BRACKET



Part #	NPT M	NPT F	QTY
PC62-DOT-1	3/4"	1/2"	1

PIPE CLIP



Part #	Pipe-In	QTY
PCDPC-8	1/2"	10
PCDPC-10	3/4"	10
PCDPC-12	1"	10

O-RING



Part #	PI	QTY
PCDOR-12	1"	50

More sizes available for special order

SPLIT RING



Part #	ID	QTY
PCDSR-12	1"	50

More sizes available for special order

BEVELING TOOL



Part #	ID	QTY
PCBEV	3/8" - 1"	1

BENDING SPRING



Part #	ID	QTY
PCDBS-12	1"	1

More sizes available for special order

PIPE CUTTER & REPLACEMENT BLADES



Part #	ID	QTY
PCDTC	3/8" - 1"	1
PCDRB	REPLACEMENT SS BLADES	1

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