



COMPRESSED AIR

applied system technologies[™]

Large Capacity Aluminum Piping Systems

COMPRESSED AIR



Elevation from Applied System Technologies (AST), has taken large diameter piping systems to a new level.

TEN TIMES LIGHTER THAN STEEL, without compromising structural strength. The System is safer and easier to install than plastic, with the quality of Stainless Steel.

Secrets of the Elevation System

1. Manufactured from Marine Grade Aluminum:

High Quality Aluminum Alloy provides the highest level of protection against corrosion. This ensures that the media traveling through a system encounters very little turbulence, while enabling high flow rates with minimal pressure losses compared to conventional steel systems.

2. Uses world's most highly accepted grooved fitting design:

Mechanical firms already use and understand our coupling technology ensuring installations can be done by any qualified contractor. Zero contamination is a priority; it is the only solution to achieve the lowest cost of ownership when operating a piping system.

Elevation provides a simple solution for large air/gas/vacuum users and is, without a doubt, the easiest and fastest system to install. It has the lowest cost of ownership and the best quality of media delivery available.

Connect Elevation to Infinity for maximum advantage.

Once you've installed an Elevation header, it's common to have smaller diameter piping for drops and solid line hook ups to machines and equipment.

Infinity, like Elevation, is comprised of an all metal, non-corrosive system with bore sizes from 20mm (3/4") up to 63mm (2 1/2"). The piping is manufactured in the same MARINE GRADE ALUMINUM as Elevation but promotes a different range and style of fittings.

Infinity fittings are made from solid brass and nickel-plated to provide a STRONG AND NON-CORROSIVE solution. The fitting design is a simple "push to connect" system and requires minimal skill, effort or tooling to install.

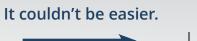
It couldn't be easier.

Simply drill a hole in the Elevation piping and fix an outlet saddle clamp around the tubing to leave a female threaded connection that allows for the simple conversion between Elevation and Infinity.











2. Screw male thread 3. Attach connector into Infinity piping female connector. to fitting. Elevation — Large Capacity Aluminum Piping Systems

ELEVATION

Elevation works for you.

- Lightest product in the market 1/10th the weight of steel (same diameter)
- Fastest installed system compared to all others available
- Structurally as strong as carbon steel
- Manufactured from non-corrosive marine grade aluminum – guaranteed highest quality air delivery
- Superior construction and design – allows highest flow rates and lowest pressure drops
- System flexibility simple modifications and/or additions
- Ten year leak free guarantee
- O Manufactured from 100% recyclable materials

SMOOTH BORE HIGH-PERFORMANCE

HOUSING

GROOVE

GASKET

GASKET

BOLT/NUT

GROOVE

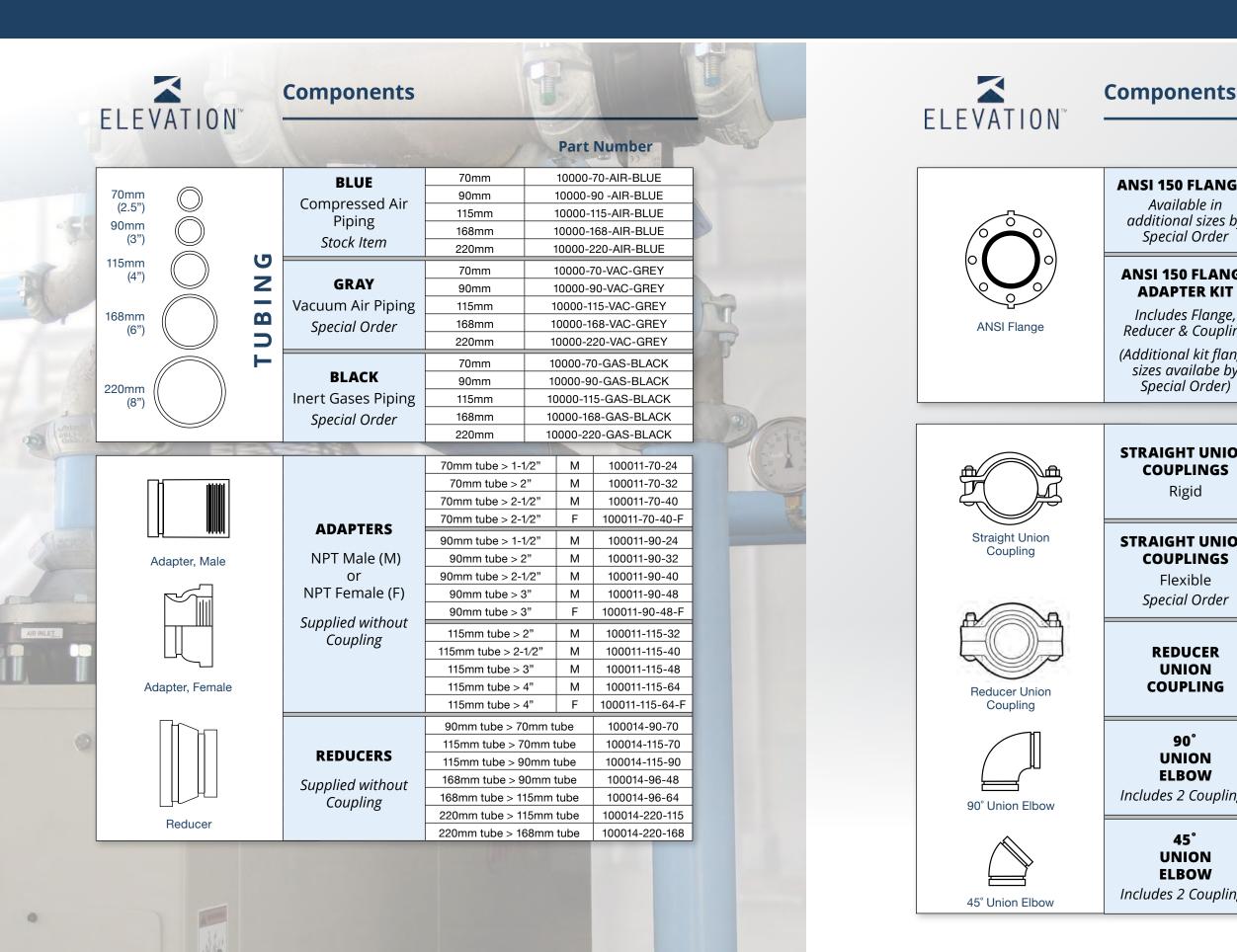


Non Corrrosive Marine Grade Aluminum Tubing

- Marine grade aluminum construction
 prevents rust and system deterioration.
- Zero corrosion eliminates expensive production downtime and dramatically reduces maintenance costs.
- Smooth internal diameter insuring higher flow rates with less turbulence than traditional black iron pipe, throughout the life of the system.
- Lowest cost of ownership available.

Don't jeopardize efficiency.

Piping is responsible for the delivery of compressed air to the point of use. Material, age and condition impact both system reliability and air quality. Compressed air piping made from iron will rust and corrode, creating buildup on the interior and reducing the functional diameter. This buildup results in increasing pressure losses as well as contamination contributing to poor quality air.



Part N	umbe	r
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FLANGES	90mm to ANSI 3"	100012-48		
able in	115mm to ANSI 4"	100012-64 100012-96		
al sizes by	168mm to ANSI 6"			
l Order	220mm to ANSI 8"	100012-128		
	90mm to ANSI 6"	100235-90-96		
) FLANGE	90mm to ANSI 4"	100235-90-64		
FER KIT	90mm to ANSI 2-1/2"	100235-90-40		
s Flange,	90mm to ANSI 2"	100235-90-32		
& Coupling	115mm to ANSI 6"	100235-115-96		
l kit flange	115mm to ANSI 3"	100235-115-48		
ailabe by I Order)	115mm to ANSI 2-1/2"	100235-115-40		
	115mm to ANSI 2"	100235-115-32		
	70mm	100040-70-R		
IT UNION	90mm	100040-90-R		
LINGS	115mm	100040-115-R		
gid	168mm	100040-168R		
	220mm	100040-220R		
IT UNION	70mm	100040-70F		
LINGS	90mm	100040-90F		
kible	115mm	100040-115F		
I Order 168mm 220mm		100040-168F		
		100040-220F		
	90mm > 70mm	100620-90-70		
UCER	115mm > 70mm	100620-115-70		
ION	115mm > 90mm	100620-115-90		
PLING	168mm > 115mm	100620-168-115		
	220mm > 168mm	100620-220-168		
0°	70mm	100130-70		
U ION	90mm	100130-90		
NOW	115mm	100130-115		
Couplings	168mm	100130-168		
coupilitzs	220mm	100130-220		
- °	70mm	100140-70		
5°	90mm	100140-90		
ION SOW	115mm	100140-115		
Couplings	168mm	100140-168		
coupilities	220mm	100140-220		



Components

Part Number

		i			
		70mm		100230-70	
	Equal Tee	90mm		100230-90	
	-	115mm		100230-115	
	Includes 3 Couplings	168mm	100230-168		
		220mm		100230-220	
Equal Tee with Couplings		70mm tube > 1/2"	F	100234-70-08	
with Couplings		70mm tube > 3/4"	F	100234-70-12	
		70mm tube > 1"	F	100234-70-16	
		70mm tube > 1-1/2"	F	100234-70-24	
		90mm tube > 3/4"	F	100234-90-12	
		90mm tube > 1"	F	100234-90-16	
	OUTLET	90mm tube > 1-1/2"	F	100234-90-24	
	SADDLE CLAMP	90mm tube > 2"	F	100234-90-32	
		115mm tube > 3/4"	F	100234-115-12	
	NPT Female (F)	115mm tube > 1"	F.	100234-115-16	
	or	115mm tube > 1-1/2"	F	100234-115-24	
	Grooved (G)	115mm tube > 2"	F	100234-115-32	
Outlet, Saddle Clamp	Supplied without	168mm tube >1-1/2"	F	100234-168-24	
	Coupling	168mm tube > 2"	F.	100234-168-32	
	, 0	168mm tube > 115mm	G	100234-168-115	
		168mm tube > 90mm	G	100234-168-90	
		220mm tube > 2"	F	100234-220-32	
		220mm tube > 70mm	G	100234-220-32	
		220mm tube > 90mm	G	100234-220-90	
		220mm tube > 115mm	G	100234-220-30	
		1			
	BUTTERFLY VALVE	70mm tube		100700-70	
	Tube to Tube	90mm tube		100700-90	
	(Ten Position)	115mm tube		100700-115	
	Supplied with	168mm tube		100700-168	
Butterfly Valve, Tube to Tube with Two Couplings	2 Couplings	220mm tube		100700-220	
		70mm	DG	100610-70-D	
	PLUG – <i>CAP</i>	90mm	A	100610-90-A	
	END FITTING	90mm	DG	100610-90-D	
	Ductile Galv. (DG)				
	or Aluminum (A)	115mm	A	100610-115-A	
Plug, Cap End Fitting	Supplied without	115mm	DG	100610-115-D	
I lug, Cap Ellu Fitting	Coupling	168mm	DG	100610-168-D	
	Coupinie				



ELEVATION



Wall Bracket Kit

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Components

		Part Number	
	70mm-3/8" insert	100820-70	
	90mm-3/8" insert	100820-90	
ANGING BRACKETS	115mm-3/8" insert	100820-115	
(Galvanized Steel, Threaded Insert)	168mm - 1/2" insert includes 3/8" insert adapter	100820-168	
	220mm - 1/2" insert includes 3/8" insert adapter	100820-220	
WIRE HANGING SYSTEM (15' length) 3/8" threaded end (replaces need for threaded rod)	70mm – 220mm pack of 10 includes cutters	90832-15	
CANTILEVER	70mm	100835-70	
WALL BRACKET Includes Bracket,	90mm	100835-90	
Pipe Strap & Bolts	115mm	100835-115	
	70mm	100921-70-T	
	90mm	100921-90-T	
REPLACEMENT SEALS	115mm	100921-115-T	
•====•	168mm	100921-168-T	
	220mm	100921-220-T	
	Grooving Tool (70mm-168mm)	100950-M	
TOOLS	Grooving Tool (220mm)	Special Order <i>(call)</i>	
	Grooving Tool Rental (70mm-168mm) (Weekly Rental)	100950-M-R	
	Groove Gage	100952-G	



Elevation Technical Specifications

Max Working Pressure	220 PSI (15 BAR)
Max Working Temperature	-4°F to 176° F (100% Duty)
Tubing Material	Aluminum 6063 T-5 <i>(Marine Grade)</i> Manufactured and certified to ASTM standards
Tubing Weight	70 mm - 0.86 lbs./ft 90 mm - 1.04 lbs./ft 115 mm - 1.15 lbs./ft 168 mm - 3.12 lbs./ft 220 mm - 4.95 lbs./ft
Standard Seals	(-4° F to 176° F) Nitrile Rubber
High Temperature Seals	(-4° F to 300° F) Fluoroelastomer
Fittings	Aluminum, B-26, 356-T6
Couplings	Ductile Iron, Galvanized, grade 65-45-12
Standards & Approvals	ASME B31.1 Power Piping ASTM F-1476 BOCA CSA B-242 SBCCI

Elevation System Flow Rates:

	Cu Ft/min				
	70 mm	90 mm	115 mm	168 mm	220 mm
100 PSI	948	1955	3844	10078	20944
125 PSI	1064	2162	4205	11194	23169
150 PSI	1169	2364	4591	12153	25279
220 PSI	1417	2937	5568	14740	30418

Above flow rates are based on straight line flow allowing for a 1psi pressure drop per/100ft over pipe and couplings. For loop systems, flow rates are doubled, i.e. 90mm tubing at 100 psi flows 3910 cfm.





Inside or out... old or new... Elevation provides the ideal solution.











Capacity Aluminum Piping Syster

High Quality Aluminum Piping Systems



10 Year Guarantee

Applied System Technologies warrants its pipe and fitting components to be free of leaks due to manufacturing defects for a period of 10 years from date of sale. This Express warranty is in lieu of and excludes all other warranties, guarantees or representations, express or implied, by operation of law or otherwise, including any warranty that the materials are suitable for the buyer's requirements or special use. System must be installed by an AST approved technician.

Applied System Technologies agrees to replace any component proven to have a manufacturing defect.

Applied System Technologies shall not be liable for any consequential damages nor for loss, damage or expenses directly or indirectly arising from the use of the product





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