



LARGE CAPACITY ALUMINUM PIPING SYSTEM

| *High Performance All Metal Piping*

| *73mm (2.5") - 220mm (8") System*

Compressed Air // Vacuum // Inert Gas



Elevation, from Applied System Technologies, has taken large-diameter piping systems to a new level. It is 10x lighter than steel without compromising structural strength. The system is safer and easier to install than plastic while offering the same quality as 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 the system encounters very little turbulence, enabling high flow rates with minimal pressure losses compared to conventional steel.

2. Uses the world's most accepted grooved fitting design

Mechanical firms already use and understand our coupling technology, ensuring installations can be completed by any qualified contractor. Corrosion-free by nature and designed for low cost of ownership, Elevation is the right choice for your piping system project.

Elevation provides a simple solution for large air, gas, and vacuum users and is the easiest and fastest system to install. It has the lowest cost of ownership and delivers the best quality of media available.

Connect Elevation to TruLink for Maximum Advantage

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

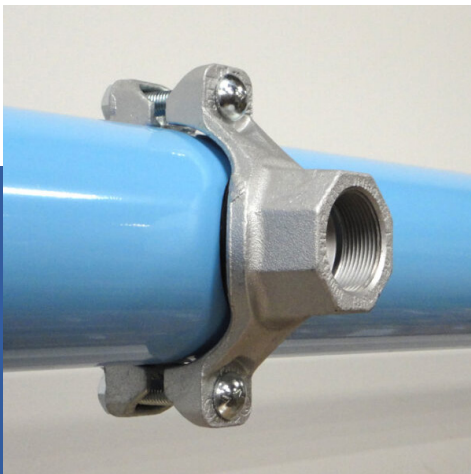
TruLink, like Elevation, is composed of an all-metal, non-corrosive system with bore sizes ranging from 20mm (3/4") to 63mm (2 1/2"). The piping is manufactured from the same marine-grade aluminum as Elevation but features a different range and style of fittings.

The TruLink fitting design is easy to install, requiring minimal skill, effort, or tooling.

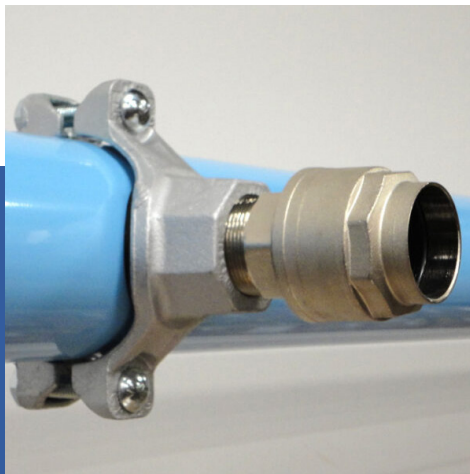
It couldn't be easier:

1. Drill a hole in the Elevation tubing.
2. Attach an outlet saddle clamp around the tubing to create a female threaded connection

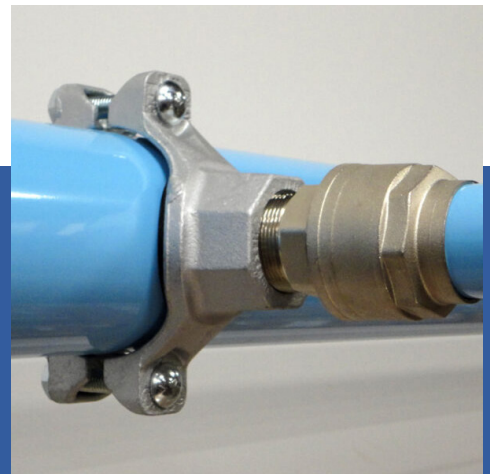
This allows for a seamless conversion between Elevation and TruLink.



1. Attach saddle clamp to Elevation pipe with female threaded connection.



2. Screw male thread connector into female connector.



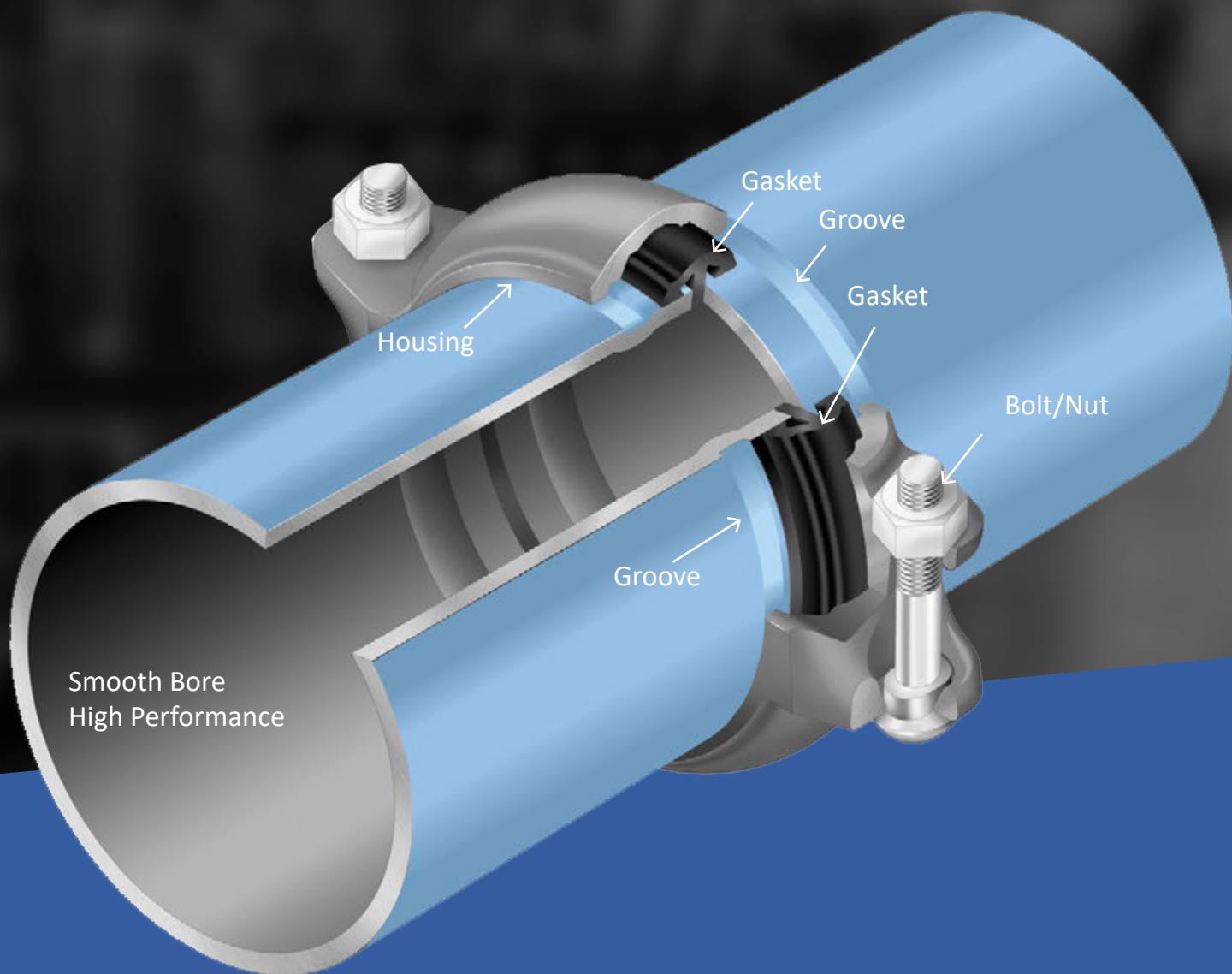
3. Attach TruLink piping to the fitting.

Elevation Works for You

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

Non-Corrosive Marine Grade Aluminum Tubing

- o Marine grade aluminum construction prevents rust and system deterioration
- o Zero corrosion— eliminates expensive production downtime and dramatically reduces maintenance costs
- o Smooth internal diameter ensures higher flow rates with less turbulence than traditional iron pipe throughout the life of the system
- o PPG Duracron protective coating
- o 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 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.

Components



TUBING

BLUE Compressed Air Tubing <i>Stock Item</i>	73mm	10000-70-AIR-BLUE	
	90mm	10000-90-AIR-BLUE	
	115mm	10000-115-AIR-BLUE	
	168mm	10000-168-AIR-BLUE	
	220mm	10000-220-AIR-BLUE	
GREEN Nitrogen Tubing <i>Special Order</i>	73mm	10000-70-NITRO-GREEN	
	90mm	10000-90-NITRO-GREEN	
	115mm	10000-115-NITRO-GREEN	
	168mm	10000-168-NITRO-GREEN	
	220mm	10000-220-NITRO-GREEN	
GRAY Vacuum Tubing <i>Special Order</i>	73mm	10000-70-VAC-GRAY	
	90mm	10000-90-VAC-GRAY	
	115mm	10000-115-VAC-GRAY	
	168mm	10000-168-VAC-GRAY	
	220mm	10000-220-VAC-GRAY	
BLACK Inert Gas Tubing <i>Special Order</i>	73mm	10000-70-GAS-BLACK	
	90mm	10000-90-GAS-BLACK	
	115mm	10000-115-GAS-BLACK	
	168mm	10000-168-GAS-BLACK	
	220mm	10000-220-GAS-BLACK	
ADAPTERS NPT Male (M) or NPT Female (F) <i>Supplied without Coupling</i>	73mm tube > 1-1/2"	M	100011-70-24
	73mm tube > 2"	M	100011-70-32
	73mm > 2-1/2"	M	100011-70-40
	73mm > 2-1/2"	F	100011-70-40-F
	90mm tube > 1-1/2"	M	100011-90-24
	90mm tube > 2"	M	100011-90-32
	90mm > 2-1/2"	M	100011-90-40
	90mm tube > 3"	M	100011-90-48
	90mm tube > 3"	F	100011-90-48-F
	115mm tube > 2"	M	100011-115-32
	115mm tube > 2-1/2"	M	100011-115-40
	115mm tube > 3"	M	100011-115-48
	115mm tube > 4"	M	100011-115-64
	115mm tube > 4"	F	100011-115-64-F
REDUCERS <i>Supplied without Coupling</i>	90mm tube > 73mm tube	100014-90-70	
	115mm tube > 73mm tube	100014-115-70	
	115mm tube > 90mm tube	100014-115-90	
	168mm tube > 90mm tube	100014-96-48	
	168mm tube > 115mm tube	100014-96-64	
	220mm tube > 115mm tube	100014-220-115	
	220mm tube > 168mm tube	100014-220-168	





ANSI 150 FLANGE ADAPTERS <i>Available in additional sizes by Special Order</i>	73mm to ANSI 2-1/2"	100012-40
	90mm to ANSI 3"	100012-48
	115mm to ANSI 4"	100012-64
	168mm to ANSI 6"	100012-96
	220mm to ANSI 8"	100012-128
ANSI 150 HIGH TEMP FLANGE ADAPTER	73mm	100012-40-O
	90mm	100012-48-O
	115mm	100012-64-O
	168mm	100012-96-O
	220mm	100012-128-O
ANSI 150 FLANGE ADAPTER KIT <i>Includes Flange, Reducer & Coupling</i> <i>(Additional kit flange sizes available by Special Order)</i>	90mm to ANSI 6"	1000235-90-96
	90mm to ANSI 4"	1000235-90-64
	90mm to ANSI 2-1/2"	1000235-90-40
	90mm to ANSI 2"	1000235-90-32
	115mm to ANSI 6"	1000235-115-96
	115mm to ANSI 3"	1000235-115-48
	115mm to ANSI 2-1/2"	1000235-115-40
	115mm to ANSI 2"	1000235-115-32
REPLACEMENT FLANGE GASKET	73mm	100012-40-GSK
	90mm	100012-48-GSK
	115mm	100012-64-GSK
	168mm	100012-96-GSK
	220mm	100012-128-GSK
HIGH-TEMP REPLACEMENT FLANGE GASKET	73mm	100012-40-GSK-O
	90mm	100012-48-GSK-O
	115mm	100012-64-GSK-O
	168mm	100012-96-GSK-O
	220mm	100012-128-GSK-O



FLANGE ADAPTER BOLT KIT	Size	Compatible With	Flange Size	Part Number
	73mm	100012-40	ANSI 2.5"	100012-40-BLK-KT
	90mm	100012-48, 100235-115-48	ANSI 3"	100012-48-BLK-KT
	115mm	100012-64, 100235-90-64	ANSI 4"	100012-64-BLK-KT
	168mm	100012-96, 1000235-90-96, 1000235-115-96	ANSI 6"	100012-96-BLK-KT
	220mm	100012-128	ANSI 8"	100012-128-BLK-KT

Components



STRAIGHT UNION COUPLING Rigid	73mm	100040-70-R
	90mm	100040-90-R
	115mm	100040-115-R
	168mm	100040-168-R
	220mm	100040-220-R



HIGH TEMP COUPLING	73mm	100040-70-R-07-O
	90mm	100040-90-R-07-O
	115mm	100040-115-R-07-O
	168mm	100040-168-R-07-O
	220mm	100040-220-R-07-O



REPLACEMENT COUPLING SEAL <i>Fits I07N Coupling</i>	73mm	100921-70-T
	90mm	100921-90-T
	115mm	100921-115-T
	168mm	100921-168-T
	220mm	100921-220-T



REDUCERS UNION COUPLING	90mm tube > 73mm tube	100620-90-70
	115mm tube > 73mm tube	100620-115-70
	115mm tube > 90mm tube	100620-115-90
	168mm tube > 115mm tube	100620-168-115
	220mm tube > 168mm tube	100620-220-168



90° UNION ELBOW <i>Includes 2 Couplings</i>	73mm	100130-70
	90mm	100130-90
	115mm	100130-115
	168mm	100130-168
	220mm	100130-220



45° UNION ELBOW <i>Includes 2 Couplings</i>	73mm	100140-70
	90mm	100140-90
	115mm	100140-115
	168mm	100140-168
	220mm	100140-220



Equal Tee <i>Includes 3 Coupling</i>	73mm		100230-70
	90mm		100230-90
	115mm		100230-115
	168mm		100230-168
	220mm		100230-220
OUTLET SADDLE CLAMP NPT Female (F) or Grooved (G)	73mm tube > 1/2"	F	100234-70-08
	73mm tube > 3/4"	F	100234-70-12
	73mm > 1"	F	100234-70-16
	73mm > 1-1/2"	F	100234-70-24
	90mm tube > 3/4"	F	100234-90-12
	90mm tube > 1"	F	100234-90-16
	90mm > 1-1/2"	F	100234-90-24
	90mm tube > 2"	F	100234-90-32
	115mm tube > 3/4"	F	100234-115-12
	115mm tube > 1"	F	100234-115-16
	115mm tube > 1-1/2"	F	100234-115-24
	115mm tube > 2"	F	100234-115-32
	168mm tube > 1-1/2"	F	100234-168-24
	168mm tube > 2"	F	100234-168-32
	168mm tube > 90mm	G	100234-168-90
	168mm tube > 115mm	G	100234-168-115
	220mm tube > 2"	F	100234-220-32
	220mm tube > 73mm	G	100234-220-70
	220mm tube > 90mm	G	100234-220-90
	220mm tube > 115mm	G	100234-220-115
BUTTERFLY VALVE Tube to Tube (Ten Position) <i>Includes 2 Couplings</i>	73mm		100700-70
	90mm		100700-90
	115mm		100700-115
	168mm		100700-168
	220mm		100700-220
HIGH-TEMP BUTTERFLY VALVE <i>Supplied without Couplings</i>	73mm		100700-70-0-01
	90mm		100700-90-0-01
	115mm		100700-115-0-01
	168mm		100700-168-0-01
	220mm		100700-220-0-01
NITRILE-LINED BUTTERFLY VALVE <i>Includes 2 Couplings (Special Order)</i>	73mm		100700-70-NL
	90mm		100700-90-NL
	115mm		100700-115-NL
	168mm		100700-168-NL
	220mm		100700-220-NL

Components



PLUG- CAP END FITTING

Ductile Galv. (DG)
or Aluminum (A)
*Supplied without
Couplings*

73mm	DG	100610-70-D
90mm	A	100610-90-A
90mm	DG	100610-90-D
115mm	A	100610-115-A
115mm	DG	100610-115-D
168mm	DG	100610-168-D
220mm	DG	100610-220-D



HANGING BRACKET

*(Galvanized Steel,
Threaded Insert)*

73mm-3/8" insert	100820-70
90mm-3/8" insert	100820-90
115mm-3/8" insert	100820-115
168mm-1/2" insert <i>includes 3/8" insert adapter</i>	100820-168
220mm-1/2" insert <i>includes 3/8" insert adapter</i>	100820-220



WIRE HANGING SYSTEM

*(15'length)
3/8" threaded end
(replaces need for
threaded rod)*

73mm-220mm
Pack of 10

90832-15



BEAM CLAMP

3/8"

90860



CANTILEVER WALL BRACKET

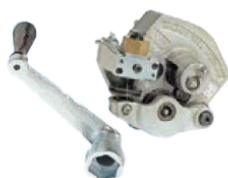
*Includes Bracket,
Pipe Strap & Bolts*

73mm	100835-70
90mm	100835-90
115mm	100835-115

ASSEMBLY LUBE

1 Quart Container

100910-32



TOOLS

Grooving Tool (73mm-168mm)	100950-M
Grooving Tool (220mm)	Special Order <i>(call)</i>
Groove Gauge	100952-G

Technical Specifications

Working Pressure	-29.6Hg (-0.99 bar) to 220psi (15 bar)
Max Working Temperature	-4°F to 176°F (100% Duty)
Tubing Material	Aluminum 6063 T-5 (Marine Grade) Manufactured and certified to ASTM standards
Tubing Weight	73mm - 0.86 lbs./ft 90mm - 1.04 lbs./ft 115mm - 1.15 lbs./ft 168mm - 3.12 lbs./ft 220mm - 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 Ductile Iron, Galvanized, Grade 65-45-12
Standards & Approvals	SME B31.1 Power Piping ASTM F-1476 BOCA SBCCI CRN RoHS ASTM B221 ASTM B308, B308M ASTM B429, B429M ASTM B241, B241M European Union Directive

Elevation System Flow Rates:

	Cu Ft/min				
	73mm/2.5"	90mm/3"	115mm/4"	168mm/6"	220mm/8"
100 PSI	948	1955	3844	10078	20944
125 PSI	1064	2062	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.

All dimensions measured in mm, unless otherwise noted with inches symbol or text.





Applied System Technologies is proud to offer our Lifetime Warranty program, covering all pipe and fittings for both the TruLink and Elevation compressed air product lines. This warranty is possible due to our long history of producing high quality products, continuing our tradition of excellence and customer satisfaction. We are 100% committed to supplying the finest products available to our customers and always doing our best to exceed their expectations. This Lifetime Warranty is a testament to that commitment.



Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Applied System Technologies standard terms and conditions for such products, which are available upon request. Product improvement is a continuing goal at Applied System Technologies. Designs and specifications are subject to change without notice or obligation.



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