



INSTALLATION INSTRUCTIONS

TITLE: Elevation Piping System – Installation Instructions

Purpose: This document covers the installation instructions for the **Elevation Piping System** by Applied System Technologies

Scope: This document covers the Elevation Piping System sizes **70mm** through **273mm**

Instructions:

Before installation of any Elevation Tube or Fittings, the following instructions must be carried out:



WARNING !!

Failure to follow instructions and warnings could cause system failure, resulting in serious personal injury and/or property damage

Every installation of this product is different and may contain certain unique hazards. It is your responsibility to be careful and work safely.

Applied System Technologies cannot guarantee your safety and recommends all installations be performed by trained installation professionals.

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If you have questions after reading... STOP... Do not attempt to install or test this product. Contact customer support for more information. 704-947-6966

The following are the minimal required Personal Protective Equipment: Additional site-specific safety equipment may be required. Always wear safety glasses, gloves, hardhat, foot protection, and hearing protection.

Never work alone.

**Tube Grooving**

1. Insure that all groove specifications and installation processes are followed per the Victaulic Field Installation Handbook(I-100) (supplied with your order)
If you do not have this handbook, please contact customer support at (704)947-6966.
Electronic or hard copy will be provided at no charge to you.
2. Cut tube ends must be square and smooth.
 1. A Chop Saw with a minimum 80 carbide cutting teeth(for Non-Ferrous Metals) or wheeled tube cutter to produce an acceptable straight, clean cut.
 2. Cut ends must have any Burrs or sharp edges removed to protect seals during installation.
3. Victaulic Groove Gauge tape must be used to verify pipe diameter. Zero arrow must be within wide, black mark to the right of the 2 ½", 3", 4", 6", 8", 10". Only approved Victaulic grooving tools should be used to ensure correct groove dimensions.



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4. Tube must be grooved according to the instructions as supplied with the tool. Contact Customer Support for any question about this process. 704-947-6966
 - A setting gauge will be supplied with each grooving tool and can be used as starting point for setting groove depth.
 - The setting gauge can only be used after the groove tool is installed on the pipe squarely against the stops and the adjustment nut hand tight.
 - After grooving to the approximate depth with the setting gauge, check the groove with the groove gauge tape and adjust the tool as required.
 - The zero arrow on the groove gauge tape must be within the narrow black mark to the left of the 2 ½", 3", 4", 6", 8", 10".

6. After the grooving tool is set to provide the correct groove, periodic adjustments may be required as you groove additional cut sections.

NOTE: Tubing ends supplied pre-grooved, do not require additional preparation beyond inspection for burrs.

Important: Every groove must be verified to be in tolerance by using Victaulic groove gauge tape.

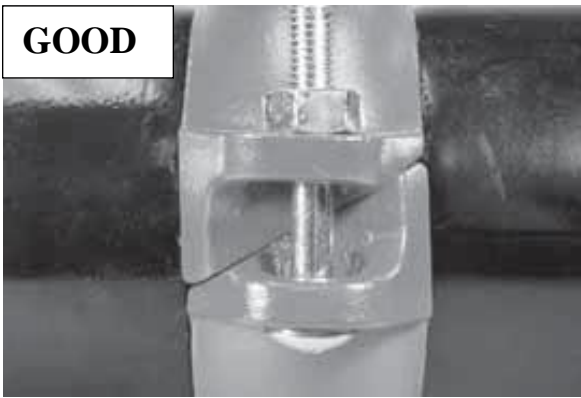
Fitting Installation:

1. Inspect fittings to insure sealing surfaces are smooth and clean.
2. Do not remove the coupling bolts. Apply a thin coating of assembly lube on the outer edge of the exposed lip of the gasket seal.
3. Install the coupling over the tube; mate the fitting to the coupling. Insure the fitting and tube are inserted into the coupling completely. Tighten the bolts evenly until the gap between the coupling halves has been eliminated and the coupling halves are aligned.

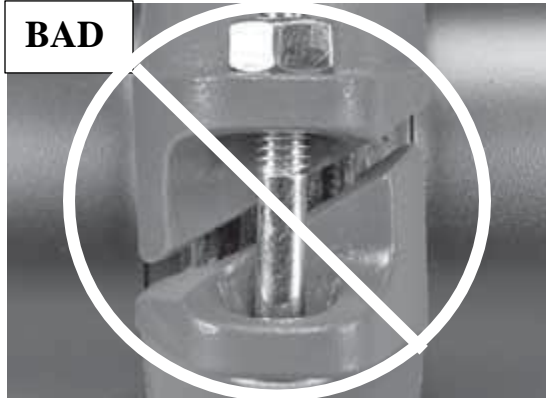


Important: All couplings must be securely tightened so there is no visible gap between bolt pads, ensuring metal-to-metal contact on the coupling. (See Below:)

GOOD



BAD



4. Visually inspect the complete system to verify all bolts are tight, coupling halves are together, and couplings are fitted properly into the tube and fitting grooves.
5. System should be supported at a minimum spacing of 8'. As installations vary greatly, additional supports may be required when adding multiple fittings within a close proximity. Local codes will always supersede manufacture recommendations.

This Installation supplement should be used as a reference only.

The Victaulic I-100 Field Installation Manual should be utilized for detailed Installation Instructions.

For further clarification on this requirement please call
Applied System Technologies – 704-947-6966