

## ICC-ES PMG Listing

PMG-1019

Effective Date: September 1, 2011

This listing is subject to re-examination in one year.

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CSI: DIVISION: 23 00 00—HEATING, VENTILATING AND AIR CONDITIONING (HVAC)  
Section: 23 11 00—Facility Fuel Piping

## Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system

Product: Gastite Flexible Gas Piping System

Listee: Titeflex Corporation/Gastite Division  
603 Hendee Street  
Springfield, Massachusetts 01139-0054  
[www.gastite.com](http://www.gastite.com)

## Compliance with the following codes:

2012, and 2009 *International Residential Code*® (IRC)  
2012, and 2009 *International Mechanical Code*® (IMC)  
2012, and 2009 *International Fuel Gas Code*® (IFGC)  
2009 IAPMO *Uniform Mechanical Code*\* (IAPMO UMC)  
2009 IAPMO *Uniform Plumbing Code*\* (IAPMO UPC)

\* *Uniform Plumbing Code* and *Uniform Mechanical Code* are copyrighted publications of IAPMO.

## Compliance with the following standard:

ANSI LC 1, Interior Gas Piping Systems Using Corrugated Stainless Steel Tubing

## Identification:

Tubing: Each 2 feet (610 mm) of tube bears the Gastite name, part number, rated pressure [5 psi (34 kPa)], equivalent hydraulic diameter (EHD), the words "Fuel Gas, the ICC-ES PMG listing mark. The ICC-ES PMG listing number (PMG-1019) is optional.

Components: Fittings, termination outlets and distribution manifolds are stamped with the Titeflex logo, the part numbers and the date stamp.

## Installation:

Installation must be in accordance with the "Gastite Design and Installation Guide" dated November 2008; and the applicable code. The system installation consists of CSST distribution lines installed between the gas meter and fuel gas appliances. CSST not in contact with the ground, but exposed to the outdoors, must be installed in accordance with IFGC Section 404.7, IRC Section G2415.7,

IAPMO UMC Section 1312.2, or IAPMO UPC Section 1211.2, as applicable. Distribution lines must be protected from physical damage at points of support and when passing through structural members such as studs, joists and plates by the installation of approved premanufactured mechanical devices such as striker plates and oversized strip-wound metal conduit. In areas enforcing the IFGC or IRC, installation of the tubing is not permitted within ducts. The CSST must be sized in accordance with capacity tables in the manufacturer's published installation instructions.

The system is used with supply pressures not exceeding 5 psi (34.5 kPa), and for low pressure [below 1/2 psi (3.4 kPa)] and medium pressure [2 psi (13.8 kPa)] equipment applications. Low pressure applications with system supply pressures below 1/2 psi (3.4 kPa) do not require a line regulator. System supply pressures exceeding 1/2 psi (3.4 kPa), but less than 2 psi (13.8 kPa) utilize a line regulator to limit downstream appliance utilization pressure to 1/2 psi (3.4 kPa). System supply pressures that exceed 2 psi (13.8 kPa), but do not exceed 5 psi (34 kPa) require a line regulator to limit downstream appliance utilization pressure to 1/2 psi (3.4 kPa), and an additional over-pressure protection device, installed between the line regulator and the appliance, to limit pressure to 2 psi (13.8 kPa). Medium pressure equipment applications with 2 psi (13.8 kPa) and greater supply pressures require a line regulator to limit downstream appliance utilization pressure to 2 psi (13.8 kPa). At supply pressures in excess of 2 psi (13.8 kPa), downstream appliance controls rated for the supply pressure, or protection by some other means, is needed.

The product must be used only with natural gas and propane at operating pressures not exceeding 5 psi (34 kPa). Pressure regulators are required when fuel supply pressures exceed 1/2 psi (3.4 kPa).

**Models:** The Gastite Flexible Gas Piping System is a fuel-gas piping system for natural or propane gas, intended for installation with fuel gas pressures not exceeding 5 psi (34 kPa); the system is installed in interior locations, and in exterior locations as permitted by applicable code.

The system consists of corrugated stainless steel tubes (CSST) and mechanical all-metal components designed for use only with the Gastite CSST. Components utilize a metal-to-metal seal, and include mechanical fittings, distribution manifolds, shutoff valves, termination outlet devices, pressure regulators and protection devices.

The CSST is composed of concentric, annular rings of Type 304 or Type 321 stainless steel with an international-yellow fuel-gas-colored polyethylene coating.

The product is available in nominal  $\frac{3}{8}$ -,  $\frac{1}{2}$ -,  $\frac{3}{4}$ -, 1-,  $1\frac{1}{4}$ -,  $1\frac{1}{2}$ - and 2-inch-diameter (9.5, 12.7, 19.1, 25.4, 31.8, 38.1 and 50.8 mm) sizes, identified as part numbers S93-6A4, S93-8A4, S93-11B4, S93-16A4, S93-20A4, S93-24A4 and S93-32A4, respectively, for Type 304 material.

Type 321 material is identified as part numbers S93-6A, S93-8A, S93-11B, S93-16A, S93-20A, S93-24A and S93-32A, respectively.

**Conditions of listing:**

1. Installation complies with this listing; the manufacturer's published installation instructions and the applicable code. If there is a conflict between the installation instructions and this listing, this listing governs.
2. The product must be used only with natural gas and propane at operating pressures not exceeding 5 psi (34 kPa). Pressure regulators are required when fuel supply pressures exceed  $\frac{1}{2}$  psi (3.4 kPa).
3. The system must be pressure-tested after installation in accordance with the applicable code.
4. The system is manufactured in Portland, Tennessee, under a quality control program with annual surveillance inspections by QAI Laboratories.