



Listing Number: PMG-1019

**Effective Date: May 1, 2008**

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

**ICC Evaluation Service, Inc.**  
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CSI: DIVISION: 15—MECHANICAL  
Section: 15190—Fuel Piping

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:

2003 *International Fuel Gas Code*<sup>®</sup> (IFGC)  
2003 *International Mechanical Code*<sup>®</sup> (IMC)  
2003 *International Residential Code*<sup>®</sup> (IRC)  
1997 ICBO *Uniform Mechanical Code* (ICBO UMC)  
2003 IAPMO *Uniform Mechanical Code*\* (IAPMO UMC)  
2003 IAPMO *Uniform Plumbing Code*\* (IAPMO UPC)

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Compliance with the following standards:

ANSI LC 1- 97

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 name of the third-party inspection agency (CSA), and either the ICC-ES evaluation report number (ESR-1031) or the ICC-ES PMG listing number (PMG-1019) and/or the ICC-ES PMG listing mark.

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

Installation:

Installation must be in accordance with the “Gastite Design and Installation Guide” dated November 2002; 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 G2145.7, ICBO UMC Section 1312.4, or IAPMO UPC Chapter 12, 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,



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installation of the tubing is not permitted within ducts. In areas enforcing the ICBO UMC or the IAPMO UMC, installation of the tubing is not permitted within under-floor space that is used as an air supply plenum. 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  $\frac{1}{2}$  psi (3.4 kPa)] and medium-pressure [2 psi (13.8 kPa)] equipment applications. Low-pressure applications with system supply pressures below  $\frac{1}{2}$  psi (3.4 kPa) do not require a line regulator. System supply pressures exceeding  $\frac{1}{2}$  psi (3.4 kPa), but less than 2 psi (13.8 kPa), utilize a line regulator to limit downstream appliance utilization pressure to  $\frac{1}{2}$  psi (3.4 kPa). System supply pressures that exceed 2 psi (13.8 kPa), but that do not exceed 5 psi (34 kPa), require a line regulator to limit downstream appliance utilization pressure to  $\frac{1}{2}$  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), protection by downstream appliance controls rated for the supply pressure, or protection by some other means, is needed.

In areas enforcing the IFGC or IRC, installation of the tubing is not permitted within ducts.

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).

In areas enforcing the ICBO UMC or the IAPMO UMC, installation of the tubing is not permitted within under-floor space that is used as an air supply plenum.

The CSST must be sized in accordance with capacity tables in the manufacturer's published installation instructions.

**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 (CSSTs) and mechanical all-metal components designed for use only with the Gastite CSSTs. 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 nominally  $\frac{3}{8}$ -,  $\frac{1}{2}$ -,  $\frac{3}{4}$ -, 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 in these same diameters 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 shall govern.
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.