



**Summary of Substantive Changes
between the 2007 and 2012 Editions of
ANSI LC 4/CSA 6.32 “Press-connect metallic fittings for use in fuel gas
distribution systems”**

(The editions compared include the 2013 addenda, designated ANSI LC 4a/CSA 6.32a)

Presented to the IAPMO Standards Review Committee on October 7, 2013

General: The changes to this standard may have an impact on currently listed products. The substantive changes are:

- Expanded the scope of the standard to include steel, stainless steel, and malleable iron (see Section 1)
- Added new construction requirements for steel, stainless steel, and malleable iron (see Section 4)
- Changed the method of testing for the elevated temperature test (see Section 5.1.2)

Title: Changed the title to reflect that the standard covers fittings made of materials other than copper as follows:

Press-Connect ~~Copper And Copper Alloy~~ Metallic Fittings for Use in Fuel Gas Distribution Systems

Section 1, Scope:

This standard applies to ~~copper and copper alloy~~ metallic (copper, steel, stainless steel and malleable iron) press-connect type fittings, and valves (hereafter referred to as fittings unless otherwise specified) for use with fuel gas systems intended for installation above ground, below ground, indoors and outdoors.

Section 4, Construction: Added new requirements to cover steel, stainless steel and malleable iron as follows;

[4.1.3 Steel](#)

[4.1.4 Stainless steel](#)

[4.1.5 Malleable Iron](#)

Section 5, Performance: Changed the method of testing to perform the leak test during the time of elevated temperature versus after cooling the test assembly.

5.12 Exposure to elevated temperature

A test assembly consisting of lengths of tube/pipe and one of each representative type of fitting shall be used. The outlet of the test assembly shall be sealed, and the inlet shall be connected to a system capable of supplying clean, dry air or nitrogen at a specified test pressure and to a flow device capable of accurately indicating the allowable leakage rate. A thermocouple shall be firmly attached to one fitting to monitor its temperature. The test assembly shall be placed in a preheated, 1000°F (538°C) test oven and arranged so that the inlet of the test assembly extends through an opening in the oven wall and connects to the air supply system. When the temperature of the fitting reaches 990°F (532°C), the oven shall be adjusted as necessary so that the fitting temperature is maintained at 990°F (532°C) to 1010°F



(543.3°C) for 1 hour. ~~The assembly shall then be allowed to cool to room temperature before proceeding with leak testing as specified in 2.2;~~ Once the test assembly has reached the specified temperature, air or nitrogen shall be admitted to the system and maintained at the specified rated operating pressure throughout the test, unless a leak is indicated by a drop in pressure. Leakage in excess of 6.0 ft³/hr (0.17 m³/hr) shall constitute non-compliance.