ICC-ES PMG Product Certificate

PMG-1502

Effective Date: December 2023

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

www.icc-es-pmg.org | (800) 423-6587 | (562) 699-0543 *A Subsidiary of the International Code Council®*

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.

Products: NIBCO Press System: Press copper and copper alloy fittings for fuel gas distribution systems

Listee: NIBCO Inc.
1516 Middlebury Street
Elkhart, Indiana 46516
www.nibco.com

Compliance with the following codes:

2021, 2018, 2015, 2012, 2009, and 2006 *International Fuel Gas Code*® (IFGC)
2021, 2018, 2015, 2012, 2009, and 2006 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015, 2012, 2009, and 2006 *Uniform Plumbing Code*® (UPC)*
2022, 2019, 2016, 2013 and 2010 *California Plumbing Code* (CPC)
2023, 2020 and 2017 *City of Los Angeles Plumbing Code*
ASME B31 Code for Pressure Pipe; standards B31.1-2022, B31.3-2022 and B31.9-2020

**Copyrighted publication of the International Association of Plumbing and Mechanical Officials*

Compliance with the following standards:

ASTM B 88-2022, Standard Specification for Seamless Copper Water Tube
ANSI LC 4-2022/CSA 6.32-2022, Press-connect Metallic Fittings for Use in Fuel Gas Distribution Systems

Identification:

Fittings: The NIBCO fittings must bear a permanent marking with the following information:

- Manufacturer's name or trademark.
- Nominal size corresponding to the tube/pipe size.
- Date of manufacture (date code or batch code).
- Maximum specified operating pressure.
- Color identification: yellow (for fuel gas only).
- Mark of the third-party inspection agency.

Packages of fittings must bear the manufacturer's name, product name, part number and the ICC-ES PMG listing mark.

Installation:

The NIBCO fittings must be installed in accordance with this listing, the applicable code and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be furnished to the code official. Installation is subject to approval by the code official having jurisdiction.

The metallic fittings and valves mentioned in this report shall be used for fuel gas systems and are intended for installation above ground, below ground, indoors or outdoors and are suitable for use in concealed locations.

Models:

Fittings:

The NIBCO fittings are available is sizes from 1/2 inch (13 mm) to 2 inches (51 mm) and are rated for a maximum operating pressure of 125 pounds per square inch gauge (psig) (862 kPa gauge). Fittings are available in copper or copper alloy and are provided with a factory-installed HNBR (Hydrogenated Nitrile Butadiene Rubber) sealing element. 2 inches or smaller fittings have an integrated leak detection feature. The function of the leak feature is to identify connections which have not been pressed.

Fitting Type	Size
PCH600-DS Coupling	1/2" - 2"
PCH600-R Reducer	1" x ½", 1" x ¾", 1-¼" x 1", 1-¼" x ¾", 1-½" x 1", 1-½" x 1-¼", 1-½" x 1-½", 2" x 1-½"
PCH603 Adaptors	½" x 3/8", ½" x ½", 1" x 1", 1-¼" x 1-¼", 1-½" x 1-½", 2" x 2"
PCH604 Adaptors	½" x 3/8", ½" x ½", ¾" x ¾", 1" x 1", 1-¼" x 1-¼", 1-½" x 1-½", 2" x 2"
PCH606 45° Elbows	1/2" - 2"
PCH606-2 45° Elbows	1/2" - 2"
PCH607 90° Elbows	1/2" - 2"
PCH607-2 90° Elbows	1/2" - 2"
PCH611 Tees	½" x ½" x ½", ¾" x ¾" x ½", ¾" x ¾" x ¾", 1" x ¾" x ½", 1" x ¾" x ¾", 1" x 1" x ½", 1" x 1" x ¾", 1" x 1" x 1", 1-¼" x 1-¼" x 1", 1-¼" x 1-¼" x 1-¼", 1-½" x 1-½" x 1", 1-½" x 1-½" x 1-¼", 1-½" x 1-½" x 1-½", 2" x 2" x ¾", 2" x 2" x 1-½", 2" x 2" x 2"
PCH617 Caps	1/2" - 2"
PCH633 Unions	1/2" - 2"

Conditions of Listing:

1. The NIBCO fittings mentioned in this report shall be used for fuel gas systems and are intended for installation above ground, below ground, indoors or outdoors and are suitable for use in concealed locations.
2. In accordance with IFGC Section 402.6 and UPC Section 1211.5, the maximum design operating pressure for piping systems located inside buildings must not exceed 5 psig (34 kPa gauge) except where at least one of the following conditions is met:
    a. The piping system is welded.
    b. The piping is located in a ventilated chase or otherwise enclosed for protection against accidental gas accumulation.
    c. The piping is located inside buildings or in separate areas of buildings used exclusively for:
        i. Industrial processing or heating.
        ii. Research.
        iii. Warehousing.
        iv. Boiler or mechanical rooms.
    d. The piping is a temporary installation for buildings under construction.
    e. The piping serves appliances or equipment used for agricultural purposes.
    f. The piping system is an LP-gas piping system with design operating pressure greater than 20 psi (137.9 kPa) and complies with NFPA 58 (IFGC) or NFPA 54 (UPC).
3. When piping is installed in vertical chases under the UBC, the gas piping exceeding 5 psig (34 kPA) must be installed in accordance with UBC Section 1211.4.
4. Copper and copper alloy fittings are for use with ASTM B 88, Type L or Type K, copper only.
5. Operating temperature range must be within minus 40°F to plus 180°F (minus 40°C to plus 82.2°C).
6. The fittings have not been evaluated for use when embedded in a solid material such as concrete.
7. The fitting installation must be pressure-tested for leaks in the presence of the code official or the official's designated representative in accordance with the applicable code.
8. The fittings under a quality control program with an annual surveillance inspection by ICC-ES.