ICC-ES PMG Product Certificate

PMG-1580

Effective Date: May 2024

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 20 00—HVAC Pipe and Fittings

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: Press ACR Fittings for Refrigeration

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

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code®* (IMC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code®* (UMC)*

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Compliance with the following standards:

UL 207 (Edition 8), Standard for Refrigerant-Containing Components and Accessories, Nonelectrical
ASME B31 Code for Pressure Pipe; standard B31.5-2019 Refrigeration Piping and Heat Transfer Components

Identification:

The Press ACR Fittings shall be legibly and permanently marked with the manufacturer's name, trade name, trademark, or identifying symbol or other descriptive marking by which the organization responsible for the product may be identified.

The shipping carton, a separate instruction sheet included with the shipping carton or a tag attached to the component shall include a distinctive model, part number, or type designation for the fitting and include information for each refrigerant type for which the fittings is intended and the ICC-ES PMG listing mark.

Installation:

The Press ACR Fittings must be installed in accordance with the manufacturer's published installation instructions, the applicable codes and this listing.
Refrigerant piping in concrete must be protected to prevent damage from vibration, stress, and corrosion in accordance with IMC Section 1107.2 or UMC Section 1109.5,

Mechanical joints shall not be used on annealed temper copper tube in sizes larger than $^{7}/_{8}$-inch (22.2 mm) OD size per IMC and ¾" of an inch nominal size per UMC.

Note: The 2024, 2021 and 2018 IMC, IRC and UMC permit for press-connect joints listed for refrigeration piping.

Models:

The Press ACR Fittings are intended for connection of copper and other types of tubing approved by the manufacturer. The connection is accomplished by compressing (solder-free) the fitting to a pipe/tube. The Press ACR Fittings are only suitable with the following refrigerants (R32, R125, R134A, R143A, R290, R404A, R407A, R407C, R407F, R410A, R417A, R422D, R447A, R448A, R449A, R450A, R452A, R452B R507, R513A, R600, R600a, R718, R1234yf, R1234ze).

Press ACR Fittings used in refrigeration applications have a maximum continuous operating temperature of 250°F (121°C), and design pressure of 700 psig. Maximum abnormal pressure is 700 psi.

Description	Size OD
PC9600-2 FTG X Press Reducer	1/4" - 1 1/8"
PC9600-DS Dimple Stop Coupling	1/4" - 1 1/8"
PC9600-R Press Reducer Coupling	1/4" - 1 1/8"
PC9601 Press Coupling (No Stop)	1/4" - 1 1/8"
PC9606-LT Long Turn Press 45 Elbow	1/4" - 1 1/8"
PC9607-2-LT Long Turn FTG X Press 90 Elbow	1/4" - 1 1/8"
PC9607-LT Long Turn Press 90 Elbow	1/4" - 1 1/8"
PC9611 Press Tee	1/4" - 1 1/8"
PC9617 Press Tube Cap	1/4" - 1 1/8"
PC9600-2 FTG X Press Reducer	1/4" - 1 1/8"

Conditions of Listing:

1. The Press ACR Fittings must be used with only the following refrigerants (R32, R125, R134A, R143A, R290, R404A, R407A, R407C, R407F, R410A, R417A, R422D, R447A, R448A, R449A, R450A, R452A, R452B R507, R513A, R600, R600a, R718, R1234yf, R1234ze).
2. Mechanical joints shall not be used on annealed temper copper tube in sizes larger than $^{7}/_{8}$-inch (22.2 mm) OD size per IMC and ¾" of an inch nominal size per UMC.
   Note: The 2021 and 2018 IMC, IRC and UMC permit for press-connect joints listed for refrigeration piping.
3. The installation must be pressure-tested for leaks in the presence of the code official or the code official's designated representative.
4. When installation is in fire-resistance-rated assemblies, evidence must be provided to the code official of compliance with *International Building Code*® (IBC) Section 713 (penetrations), *Uniform Building Code* (UBC) Section 709 (walls and partitions) or UBC Section 710 (floor/ceiling or roof/ceiling), as applicable.
5. The Press ACR Fittings must not be used as a source of electrical ground.
6. When the system is embedded in concrete, tubing must be covered a minimum of $^{3}/_{4}$ inch (19.1 mm) and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.

7. The Press ACR Fittings are under a quality control program with surveillance inspections annually by ICC-ES.