



CSI: DIVISION: 22 00 00—PLUMBING
Section: 22 11 16—Domestic Water Piping
Section: 22 11 00—Facility Water Distribution

DIVISION: 23 00 00—HEATING, VENTILATING AND AIR-CONDITIONING (HVAC)
Section: 23 21 13—Hydronic 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: Stainless Steel Pipe and Press-Connect Fittings

Listee: Zhejiang Zhengkang Industrial Co., Ltd.
No.678 Dingxiang Road, Binhai Garden
Economic and Technological Development Zone
Wenzhou, Zhejiang, China

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code*® (IPC)
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)*
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*
2020, 2015, 2010, and 2005 *National Plumbing Code of Canada*® (NPC)**
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Compliance with the following standards:

ASTM A312-2024b, Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless-Steel Pipes
ICC-ES LC1002-2013, Press-Connection Fittings for Potable Water Tube and Radiant Heating Systems
IAPMO/ANSI/CAN Z1117-2022, Press and Nail Connections
NSF/ANSI/CAN 61-2023, Drinking Water System Components – Health Effects
NSF/ANSI/CAN 372-2023, Drinking Water System Components – Lead Content

Identification:

Pipe: The Stainless-Steel Pipe covered by this listing must be permanently marked at minimum intervals of 10 feet (3 m) with the manufacturer's name and/or trademark, nominal pipe size, potable

water designation, pressure rating, and the ICC-ES PMG listing mark. Packages of pipe must bear the manufacturer name or trademark, product name, nominal size, and the ICC-ES PMG listing mark. See Figure 1 for pipe marking.

Fittings: The Stainless-Steel Press-fit Fittings must be permanently marked with the manufacturer's name or trademark, potable water designation, and nominal size. Packages of fittings must bear the manufacturer name or trademark, product name, nominal size, and the ICC-ES PMG listing mark. See Figure 2 for example of fitting packaging label.

Installation:

The Stainless-Steel Pipe and Press-Connect Fittings must be installed in accordance with this listing, the applicable code and the manufacturer's published installation instructions. Manufacturer's published installation instructions must be furnished to the code official. Installation must conform to the requirements of the applicable code and is subject to approval by the code official having jurisdiction.

Installed systems must be pressure-tested and inspected as required by Chapter 3 of the IPC, Chapter 25 of the IRC, or Chapter 1 of the UPC.

Models:

Piping: The Stainless-Steel Piping is available in 15, 18, 22, 28, 35, 42, 54, 76, 89, 108 mm nominal diameter sizes. The piping may be used for cold and hot water applications and has a maximum working pressure of 300 psi (2.0 MPa) between 60 to 180°F (16 to 82°C).

Fittings: The Stainless Steel Press-connect Fittings are available in the following configurations: Equal Coupling, Slip Couplings, Reducer Adaptor with Plain End, Elbow 90°, Elbow 90° with Plain End, Elbow 45°, Elbow 45° with Plain End, Equal Tee, Tee Reducer, End Cap, Adaptor with Female Threaded End, Adaptor with Male Threaded End, Adapter with Union Nut, Elbow 90° Female Adapter, Elbow 90° Male Adapter, Elbow 90° Angle Female Adapter, Elbow Female Adapter with Wall Plate, Tee Female Adapter, Tee Male Adapter, Tee Female Adapter with Wall Plate, and Pipe Bridge.

Conditions of Listing:

1. Pipes and fittings are to be used as an assembly. The system installation must be pressure-tested inspected in accordance with IPC Section 312.5, 2012 and 2009 IRC Section P2503.7, 2006 IRC Section P2503.6 or UPC Section 609.4, as applicable.
2. Operating temperature range for potable water must be within 32°F to 250°F (0°C to 121°C). Operating temperature range for hydronic systems must be within 0°F to 250°F (-17°C to 121°C).
3. When installation is in fire-resistive assemblies, evidence of compliance with IBC Section 712 (penetrations) must be provided to the code official.
4. The piping must not be used as a source of electrical ground.
5. The fittings have not been evaluated for use when embedded in a solid material such as concrete.
6. The Stainless-Steel Pipe and Fittings are manufactured under a quality control program with surveillance inspections by ICC-ES.



Figure 1 – Pipe Marking



Figure 2 – Fitting Package Label