



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:** PRO-Fit Quick Connect Fittings for AC and Refrigeration Applications

**Listee:** RectorSeal, LLC  
2601 Spenwick Drive  
Houston, Texas 77055  
[www.rectorseal.com](http://www.rectorseal.com)

**Compliance with the following codes:**

2021, 2018, 2015, and 2012 *International Mechanical Code®* (IMC)  
2021, 2018, 2015, and 2012 *International Residential Code®* (IRC)  
2021, 2018, 2015, and 2012 *Uniform Mechanical Code®* (UMC)\*  
2022, 2019, 2016, 2013, and 2010 *California Mechanical Code®* (CMC)

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**Compliance with the following standards:**

UL 207 (Edition 8), Standard for Refrigerant-Containing Components and Accessories, Nonelectrical  
UL 1963 (Edition 4), Standard for Refrigerant Recovery/Recycling Equipment

**Identification:**

The PRO-Fit Quick Connect fittings shall be legibly and permanently marked with the manufacturer's name, size, temperature, and pressure rating. The ICC-ES PMG listing mark shall be on the fitting or packaging.

**Installation:**

The PRO-Fit Quick Connect fittings must be installed in accordance with the manufacturer's published installation instructions, the applicable codes, and this listing.

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 3/4" of an inch nominal size per UMC.

**Models:**

The PRO-Fit Quick Connect fittings are intended for connection of copper tubing approved by the manufacturer. The connection is accomplished by quick and easy push in of the fitting to a pipe in accordance with the manufacturer's installation instructions. The fittings are only suitable for use with the following refrigerants: R22, R32, R134a, R290, R410a, R507, and R600a.

| Item # | Description                                |
|--------|--|
| 87018  | PRO-Fit 1/4" Quick Connect Union           |
| 87019  | PRO-Fit 3/8" Quick Connect Union           |
| 87020  | PRO-Fit 1/2" Quick Connect Union           |
| 87021  | PRO-Fit 5/8" Quick Connect Union           |
| 87022  | PRO-Fit 3/4" Quick Connect Union           |
| 87023  | PRO-Fit 7/8" Quick Connect Union           |
| 87024  | PRO-Fit 1/4" Quick Connect 90 Elbow        |
| 87025  | PRO-Fit 3/8" Quick Connect 90 Elbow        |
| 87026  | PRO-Fit 1/2" Quick Connect 90 Elbow        |
| 87027  | PRO-Fit 5/8" Quick Connect 90 Elbow        |
| 87028  | PRO-Fit 3/4" Quick Connect 90 Elbow        |
| 87029  | PRO-Fit 7/8" Quick Connect 90 Elbow        |
| 87030  | PRO-Fit 1/4" to 3/8" Reducer Quick Connect |
| 87031  | PRO-Fit 3/8" to 1/2" Reducer Quick Connect |
| 87032  | PRO-Fit 1/2" to 5/8" Reducer Quick Connect |
| 87033  | PRO-Fit 1/4" to 3/8" Elbow Reducer         |
| 87034  | PRO-Fit 3/8" to 1/2" Elbow Reducer         |
| 87035  | PRO-Fit 1/2" to 5/8" Elbow Reducer         |
| 87036  | PRO-Fit 1/4" Quick Connect Socket          |
| 87037  | PRO-Fit 3/8" Quick Connect Socket          |
| 87038  | PRO-Fit 1/2" Quick Connect Socket          |
| 87039  | PRO-Fit 5/8" Quick Connect Socket          |
| 87042  | PRO-Fit 1/4" Quick Connect Service Valve   |
| 87043  | PRO-Fit 3/8" Quick Connect Service Valve   |
| 87044  | PRO-Fit 1/2" Quick Connect Service Valve   |
| 87045  | PRO-Fit 5/8" Quick Connect Service Valve   |

**Ratings:**

| Sizes | Design Pressure, psig | Maximum Abnormal Pressure, psi | Continuous Operating Temperature |
|-------|-----------------------|--------------------------------|----------------------------------|
| 1/4"  | 870                   | 870                            | 250°F (121°C)                    |
| 3/8"  | 870                   | 870                            | 250°F (121°C)                    |
| 1/2"  | 870                   | 870                            | 250°F (121°C)                    |
| 5/8"  | 870                   | 870                            | 250°F (121°C)                    |
| 3/4"  | 870                   | 870                            | 250°F (121°C)                    |
| 7/8"  | 870                   | 870                            | 250°F (121°C)                    |

**Conditions of Listing:**

1. The PRO-Fit Quick Connect fittings are only suitable for use with the following refrigerants: R22, R32, R134a, R290, R410a, R507, and R600a.
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.
3. Refrigeration systems must be pressure-tested for leaks after complete installation and before operation in accordance with IMC or UMC, as applicable.
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 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 PRO-Fit Quick Connect fittings are manufactured under a quality control program with surveillance inspections by ICC-ES.