



Listing Number: PMG-1006

Effective Date: July 1, 2008

This listing is subject to re-examination in two years.

ICC Evaluation Service, Inc.
www.icc-es.org/pmg

Business/Regional Office 5360 Workman Mill Road, Whittier, California 90601 | 562.699.0543
Regional Office 900 Montclair Road, Suite A, Birmingham, Alabama 35213 | 205.599.9800
Regional Office 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 | 708.799.2305

CSI: DIVISION: 15—MECHANICAL
Section: 15140—Domestic Water Piping
Section: 15180—Heating and Cooling Piping

Products: AQUAPEX™ and AQUAPEX™ PLUS Pressure Rated Tubing, and ProPEX™ Axial Press Fittings and Compression Type Fittings

Listee: Uponor North America
5925 148th Street West
Apple Valley, Minnesota 55124
www.uponor-usa.com

Compliance with the following codes:

- 2006 *International Plumbing Code*® (IPC)
- 2006 *International Residential Code*® (IRC)
- 2006 *International Mechanical Code*® (IMC)
- 1997 ICBO *Uniform Mechanical Code* (ICBO UMC)
- 1997 *Standard Plumbing Code*® (SPC)
- 2006 IAPMO *Uniform Plumbing Code** (IAPMO UPC)*
- 2006 IAPMO *Uniform Mechanical Code** (IAPMO UMC)*

**Uniform Plumbing Code and Uniform Mechanical Code are copyrighted publications of the International Association of Plumbing and Mechanical Officials, 5001 East Philadelphia Street, Ontario, California 91716.*

Compliance with the following standards:

- ASTM F 876-04
- ASTM F 877-02e1
- ASTM F 1960-04a
- ASTM F 2080-04
- NSF 61-2003e

Identification:

Tubing: AQUAPEX™ and AQUAPEX™ PLUS Pressure Rated Tubing must be marked at minimum intervals of 5 feet (1524 mm) with the following: Uponor North America company name, product name (AQUAPEX or AQUAPEX PLUS), nominal tube size, material designation (PEX), potable water designation (when applicable), standard dimension ratio (SDR9), temperature and pressure ratings, ASTM F 876/F877 designation, production code, the name of the inspection agency (NSF International) and either the ICC-ES evaluation report number (ESR-1099) or the ICC-ES PMG listing number (PMG-1006) and/or the ICC-ES PMG listing mark.



Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.

Fittings:

ProPEX fittings are marked with the Uponor North America trademark (see Figure 2), nominal size, potable water marking, production code, and “ASTM F 1960.”

The Axial Press fitting is marked with the Uponor North America trademark, nominal size, potable water marking and “ASTM F 877” or “ASTM F 2080.”

Brass compression-type fittings are marked with the Uponor North America trademark, nominal size, potable water marking, and “ASTM F 877.”

Packaging for the fittings bears the Uponor North America company name, product name, model number, the ICC-ES evaluation report number (ESR-1099) or the ICC-ES PMG listing number (PMG-1006) or the ICC-ES PMG listing mark.

Installation:

All systems must be installed by Uponor North America–trained installers in accordance with the manufacturer’s published installation instructions, which are provided with the product. Installation must conform with the requirements of the applicable code, and is subject to approval by the code official having jurisdiction.

Clearances from heat-producing equipment must be in accordance with Section 503.7.7 of the 2006 International Fuel Gas Code[®], Section M1306 of the IRC or Section 802.10.5 of the IAPMO UMC, as applicable.

Models:**Tubing:**

AQUAPEX tubing is available in nominally $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, 1-, $1\frac{1}{4}$ -, $1\frac{1}{2}$ - and 2-inch-diameter (10, 13, 16, 19, 25, 32, 38 and 51 mm) sizes.

AQUAPEX PLUS tubing is available in nominally $\frac{1}{2}$ -, $\frac{3}{4}$ - and 1-inch-diameter (13, 19 and 25 mm) sizes.

Fittings:

ProPEX fittings: ProPEX fittings are insert-type fittings made of either brass or engineered plastic (EP) that are used with an external PEX compression ring. See Figure 1.

ProPEX fittings are available in nominally $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, 1- and $1\frac{1}{2}$ -inch-diameter (10, 13, 16, 19, 25 and 38 mm) sizes.

The ProPEX brass fittings are also available in a nominally 2-inch (51 mm) diameter.

Axial Press Fittings (APRs): APR fittings are available in nominally $\frac{1}{2}$ -, $\frac{3}{4}$ -, and 1-inch-diameter (13, 19, 25 mm) sizes.

Brass Compression-type Fittings: Compression-type fittings are available in nominally $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, and 1-inch- diameter (10, 13, 16, 19 and 25 mm) sizes.

Conditions of Listing:

1. Details on the design and installation of the heating system must be submitted to the building official for approval.
2. The tubing must be maintained at the proposed operating pressure during placement of concrete cover for hydronic piping system.
3. The tubing installation must be pressure-tested for leaks in the presence of the building official or the official’s designated representative.

4. When installation is in fire-resistive assemblies, evidence of compliance with IBC Section 719 or UBC Section 714 must be provided to the building official.
5. The potable water connections must be protected against backflow from the hydronic heating system.
6. The tubing must not be used as a source of electrical ground.
7. Minimum bending radius is six times the outside tube diameter of the PEX tube. The outside diameter is the nominal diameter plus $\frac{1}{8}$ inch (3.2 mm).
8. The tubing is limited to applications using potable water as the transfer fluid.

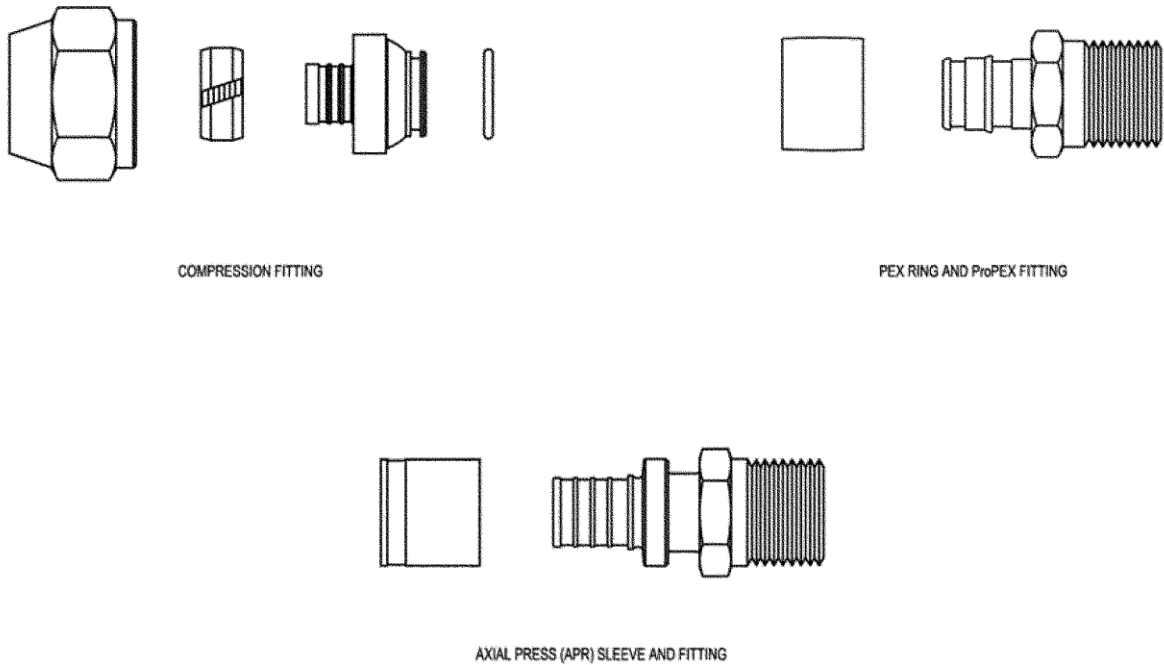


FIGURE 1—UPONOR WIRSBO FITTINGS

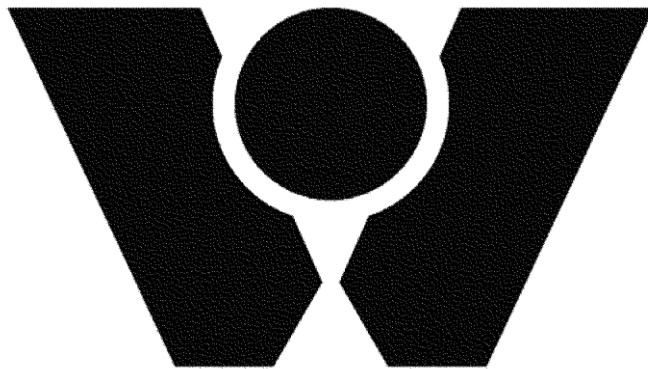


FIGURE 2—UPONOR NORTH AMERICA TRADEMARK