



PLUMBING SYSTEMS  
3" UPONOR AQUAPEX®

PRODUCT GUIDE

## 3" Uponor AquaPEX® Tubing for Commercial Plumbing Applications

### Why Uponor AquaPEX®?

Since its introduction in the European markets in 1972, Uponor Engel-method crosslinked polyethylene (PEX-a) tubing has become the gold standard that plumbing professionals rely on for its flexibility, durability, corrosion-resistance, proven history and 25-year limited warranty.

Additionally, with first-class products, service, training and support, Uponor is the plumbing professionals' resource for getting the job done on time and doing it right.

### First to Offer 3" PEX

Uponor is continuing its pioneering legacy by being the first in the PEX industry to offer 3" PEX tubing for plumbing applications.

Now, plumbing professionals don't have to switch products when installing potable systems for both small-dimension and large-dimension applications. With Uponor AquaPEX, one product does it all.

### Meet Stringent Commercial Demands

Uponor AquaPEX is proudly manufactured in the United States, which means faster distribution to the jobsite, helping to meet those tight commercial deadlines as well as conform to the Buy American Act.

Uponor 3" AquaPEX is available in long coil lengths up to 350 feet (which helps minimize connections, saving costs and time) and also comes in 20-foot straight lengths. Custom coil lengths are also available upon request.

### Features and Benefits

- Only manufacturer to offer 3" PEX tubing for plumbing
- The first and most widely used PEX in North America and Europe
- Engel-method PEX-a tubing — highest degree of crosslinking (around 85%)
- Flexible, requiring fewer fittings compared to rigid copper, polypropylene, PVC and CPVC systems
- Highly durable — won't pit, scale or corrode
- 25-year limited warranty
- Manufactured in the U.S. for faster distribution
- Helps conform to the Buy American Act
- Proven WIPEX™ fitting technology with decades of service in North America and Europe
- Available in 100-foot and 350-foot coil lengths and 20-foot straight lengths, with custom lengths also available

3" Uponor AquaPEX



WIPEX Fitting

# 3" Uponor AquaPEX Offering

## 3" Uponor AquaPEX Tubing Coils

Part No.	Part Description	Coil/Pallet
F1023000	3" Uponor AquaPEX White, 350-ft. coil	1
F1063000	3" Uponor AquaPEX White, 100-ft. coil	1



## 3" Uponor AquaPEX Tubing Straight Lengths

Part No.	Part Description	Each Qty.
F1923000	3" Uponor AquaPEX White, 20-ft. straight length, 60 ft.	1

## WIPEX Fitting

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)
5550030	WIPEX Fitting, 3" PEX x 2½" NPT	1	4.6



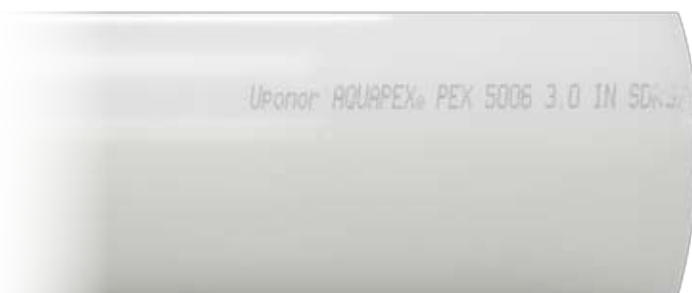
## WIPEX Sleeve Pliers

Part No.	Part Description	Each Qty.	Weight (Lbs./Ea.)
5550102	WIPEX Sleeve Pliers 1½" - 3½"	1	0.5



## Additional Benefits

- WIPEX fittings use a simple, inexpensive chamfering tool (to chamfer the tubing bore, preventing O-ring damage), a pair of WIPEX Sleeve Pliers and a wrench (size FD 2-19mm) to create solid, strong connections in a matter of minutes. Also, because they are a cold-joint fitting, they require no curing time.
- Uponor AquaPEX is quiet. It has low water transfer noise and does not have the problems of singing pipes that is common with copper.
- Uponor AquaPEX features low thermal transfer, so it is more resistant to condensation.
- Because of its expansion ability, Uponor AquaPEX is less vulnerable to freezing and subsequent freeze damage.
- Theft issues are a threat with copper — Uponor AquaPEX eliminates this concern.
- Uponor AquaPEX is highly durable and resists impact damage in transit.



## Codes and Standards

### Hydrostatic Temperature and Pressure Ratings

- 200°F at 80 psi (93.3°C at 5.51 bar)
- 180°F at 100 psi (82.2°C at 6.89 bar)
- 73.4°F at 160 psi (23°C at 11 bar)

### Manufacturing Standards

- ASTM F876
- ASTM F877
- ASTM F1960
- ASTM F2023
- ASTM F2080
- CSA B137.5
- ANSI/NSF Standard 14
- ANSI/NSF Standard 61

### Product Listings

- NSF

### Applicable Codes

- IPC
- UPC
- NSP
- IMC
- UMC
- NSPC
- NPC of Canada
- NBC of Canada

# Making a WIPEX Connection

**Note:** For complete instructions, refer to the WIPEX Fittings Instruction Sheet.



**1. Cut the Tubing**



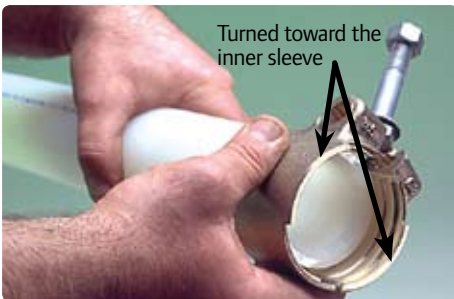
**2. Chamfer the Tubing**



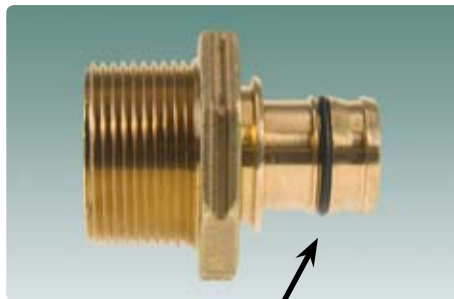
**3. Dismount the Outer Sleeve**



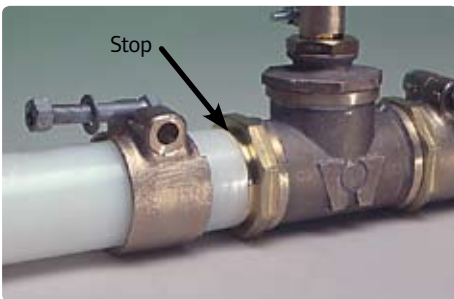
**4. Insert the Bolt Head**



**5. Mount the Outer Sleeve**



**6. Lubricate the O-ring**



**7. Push the Outer Sleeve to Stop Support**



**8. Tighten the Fitting**

# 3" Uponor AquaPEX FAQs

## What kind of fittings does 3" Uponor AquaPEX use?

Our 3" Uponor AquaPEX tubing uses WIPEX fittings which transition PEX tubing to male NPT threaded adapters.

## Does Uponor offer 3" tees, elbows and couplings?

One end of the WIPEX fitting for 3" Uponor AquaPEX connects to the PEX tubing; the other end is a 2½" male NPT adapter. This adapter will connect to any 2½" brass female NPT tee, elbow or coupling that is readily available from your wholesale distributor. Be sure to use a brass alloy suitable for the application.

## What are WIPEX fittings?

Extensively used in North America and Europe, especially for underground pre-insulated pipe systems, WIPEX fittings are manufactured from dezincification-resistant (DZR) brass, and are specifically designed for connecting 1" to 4" Uponor PEX tubing. The WIPEX fitting features an eccentric outer sleeve — for easier grip and an even force when inserting the tubing — and an inner sleeve with a threaded profile and O-ring to ensure a secure, tight seal.

## How are WIPEX fittings made?

To create the fitting, first chamfer the inside of the tubing, then use a pair of pliers to dismount the outer sleeve and place it on the tubing. Then, mount the tubing on the inner sleeve and tighten the fitting with a wrench. For complete instructions, refer to the WIPEX Fittings Instruction Sheet.

## What is the maximum operating pressure and temperature for WIPEX fittings?

The maximum operating pressure and temperature for WIPEX fittings is 87 psi at 203°F.

## What tools are required for WIPEX fittings?

WIPEX fittings only require a chamfering tool, a simple pair of pliers and a wrench.

## Are WIPEX fittings approved for potable water use?

Yes, WIPEX fittings are listed for compliance to NSF 61 for potable water use.

## Are ProPEX® fittings available for 3" Uponor AquaPEX?

Currently, we do not offer 3" ProPEX fittings. However, we are looking to expand our offering to include that in the future.

## Is 3" Uponor AquaPEX approved for high-rise residential construction?

You can use 3" Uponor AquaPEX in high-rise construction areas where fire-resistive construction is not required. Current assemblies are only applicable for up to 2" Uponor AquaPEX tubing. Uponor is currently evaluating which fire-resistive construction assemblies to test for 3" Uponor AquaPEX.

## Can 3" Uponor AquaPEX be used in a return air plenum?

Uponor is currently in the process of testing 3" AquaPEX tubing to ASTM E84 and CAN/ULC S102.2.

## Is it true that 3" Uponor AquaPEX tubing is dimensionally smaller than copper pipe?

Yes. Both copper pipe and PEX tubing's outside diameters are controlled to the same dimensions, and because PEX has a thicker wall, the inside diameter of the PEX tubing is smaller. However, PEX tubing is capable of handling higher velocities because it is not subject to erosion like copper pipe, thus providing similar flow rates.

## Can you use 3" Uponor AquaPEX tubing in riser applications?

Yes, 3" Uponor AquaPEX is appropriate for riser applications. However, the combination of internal water pressure and water-column height cannot exceed the maximum pressure ratings for a given temperature.

## Are there specific requirements for supporting 3" Uponor AquaPEX tubing?

Yes, 3" Uponor AquaPEX tubing requires support every 32 inches on horizontal runs. However, you can increase spacing by using a support channel. The 3" tubing also requires support at each floor and mid-story guide on vertical risers.

## Does 3" Uponor AquaPEX require expansion loops?

For aboveground installations, use an expansion loop every 50 feet of tubing in hot-water applications and every 100 feet of tubing in cold-water applications. For belowground installations, snake the tubing in the trench to accommodate for expansion and contraction.

**For more information, visit our websites listed below.**

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The logo for Uponor, featuring the word "Uponor" in a bold, blue, sans-serif font.