

Zurn Expansion PEX

A Superior Expansion PEX System
from a Trusted Manufacturer



Zurn offers a complete line of complementary PEX products and design assist services. With the addition of Zurn Expansion PEX, we introduce a total PEX solution.

Manufacturing PEX Pipe

There is a lot of discussion and debate throughout the industry around PEX production, with every manufacturer claiming its own special “formulation blend” and production methods are the best. Understandably, it can all be very confusing. Here’s what you need to know:

There are many factors that go into determining the quality of a PEX product: strength, flexibility, chlorine resistance, UV resistance, ability to produce colors, and the types of fittings that can be used. At Zurn, we have developed our own patented formulation and process that allow us to produce the highest quality product with the features demanded by today’s plumbing professional.

PEXa (Engel Method), PEXb (Silane Method) and PEXc (Radiation Method) are not ranking systems; they are manufacturing designations. Zurn utilizes a patented variation of the silane method that produces the highest temperature/pressure resistance, optimal flexibility, highest chlorine rating, extended UV resistance, vibrant colors, and the ability to work with both insert/crimp fittings, as well as expansion fittings. Our products are engineered to perform in the toughest plumbing conditions and stand the test of time.

Zurn’s F1960 Expansion Fittings and Rings

Available in both lead-free brass and high strength corrosion resistant polymer, from sizes 1/2” through 2”, Zurn’s fittings are efficiently manufactured to the strictest of standards. We offer a patent pending line of expansion rings and a full line of tees, elbows, couplings, adapters, stub ells, test plugs, valves, and multi-port fittings. We have everything you need for your plumbing installation.

Our system is third-party tested to provide you with the peace-of-mind that it will perform up to the strictest requirements. Since our system is manufactured to the ASTM F1960 standard, your current F1960 expansion tool is all you’ll need. Our high strength expansion rings and PEX piping do not require as many revolutions as other commercially available F1960 fitting systems in comparable conditions, meaning you get less wear and tear on your tools and less time spent recharging batteries.



A Package That Stands Above the Rest

Our new patent pending expansion ring and third-party tested F1960 Expansion PEX System provides the following best-in-class package:

DURABILITY

Our patented PEX formulation allows for us to build a PEX resin blend with the highest stabilizer package in the industry. Coupled with our F1960 fitting system, our systems are designed and tested to stand up to the toughest of conditions. Due to this manufacturing flexibility, our products achieve the highest chlorine resistance rating defined by ASTM with up to 6 months of UV resistance.

STRENGTH

Strength in a plumbing system is measured in temperature and pressure resistance, not bending a pipe back and forth until it breaks. While all commercially available PEX systems must pass very stringent ASTM requirements, Zurn's PEX piping goes above and beyond due to our patented higher strength base resin material and cross-linking process.

FLEXIBILITY

Strength and flexibility are a delicate balance when engineering a PEX product. The key is to develop a resin formulation that is high strength, yet flexible enough to be expanded and bent in a tight radius. Considering that our PEX piping can be bent as tightly as any on the market and it is expandable, we believe we have achieved the optimal balance.

RELIABILITY

Zurn Industries, founded in 1900, has earned a reputation as a high quality and innovative manufacturer who can be relied upon for the most challenging conditions. From our drain products, to our backflow products, finish plumbing, piping systems and beyond, we are known throughout the industry as a leader. With nearly four decades of flexible piping experience, you can trust in the Zurn name.

Unraveling F876

ASTM F876 defines strength and other performance categories for PEX pipe when evaluated by ASTM Standard Test Methods, such as F2023 for resistance to oxidation by hot chlorinated water, and F2657 for resistance to UV exposure. The performance of a material in these categories is reflected in its Material Designation Code, but what does it really mean?

CURRENT CODE RATINGS	
ZURN	5306
Uponor - Clear Pipe	5106
Uponor - Colored Pipe	5206
Rehau	3306

First Number (5): Hot Water Recirculation

Approved rating for hours of recirculation each day with 140 degree Fahrenheit water.

0 = Not Tested	1 = 6 hours	3 = 12 hours	5 = 24 hours
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Second Number (3): UV Protection

Approved rating for allowable UV exposure without degradation.

0 = Not Tested	1 = 1 month	2 = 3 months	3 = 6 months
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Last Two Numbers (06): Density/Burst Pressure

States the minimum bursting pressure to be considered PEX (>700 lbs).

06 = (>700 lbs)

The Conclusion

Zurn Expansion PEX, utilizing the silane manufacturing method, meets or exceeds F2023 Standards with the highest approved rating for hours of recirculation per day, longest allowable UV exposure without degradation, and over 700 lbs of pressure before failure.

*NSF and ASTM