

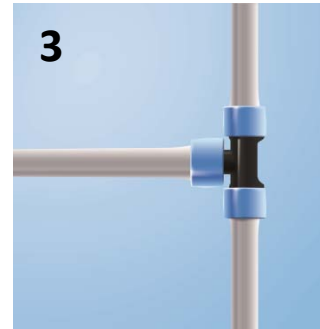
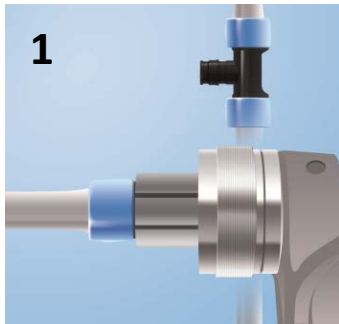


uponor

PE-Xa Pipe System

1-2-3

only 10 seconds to install and lasts a lifetime



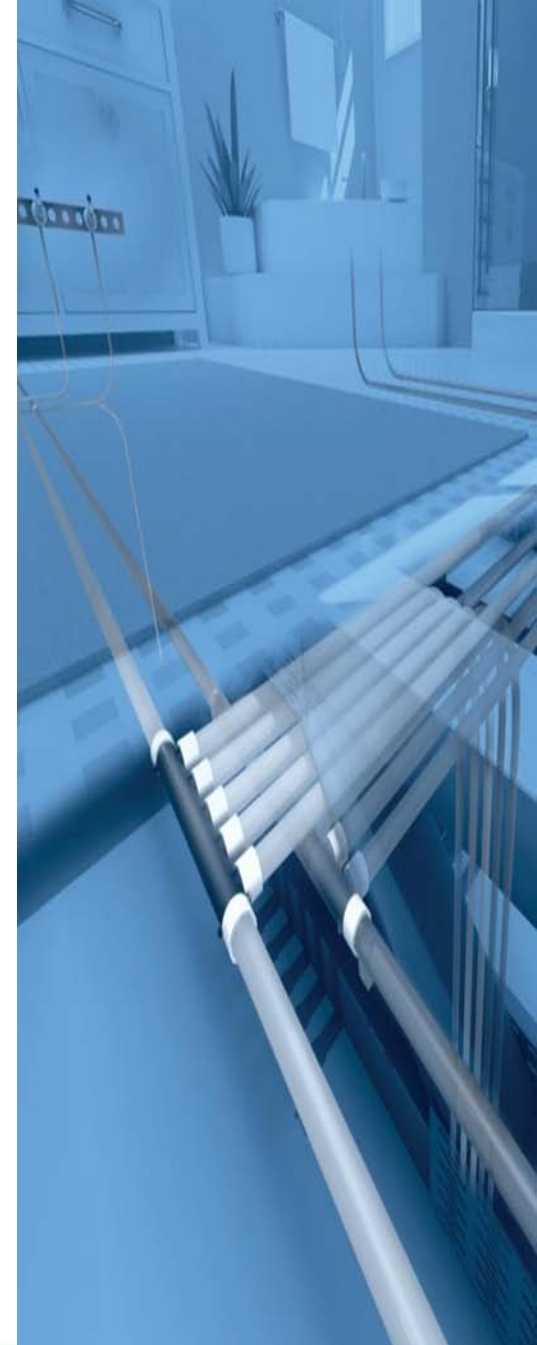
You need :

Uponor PEXa pipe

Uponor Q&E fitting

Uponor Q&E ring

...and Q&E tool to expand the Pipe together with the Ring





PE-Xa vs. Other

PE-Xa vs Copper

Flexible

PEX pipe offers the tightest bend radius of any plumbing product on the market. This eliminates the need for fittings and connections with each change of direction, and fewer fittings reduce your liability for leaks and problems.

Durable

The re-pipe business has never been better with all the pinholes leaks in copper caused by harsh water conditions.

Reduced Liability

In addition to fewer fittings for reduced liability, Uponor PEX cannot be dry-fit, eliminating concerns that the connection is made.

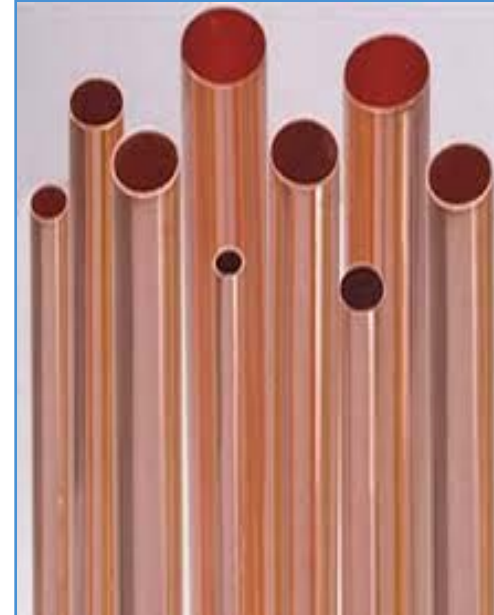
Resists Freeze Damage

Because PEX pipes can expand and contract, it is less susceptible to freeze damage compared to rigid copper pipes.

Sustainable

A 2008 life cycle study showed PEX requires less energy to produce and has an overall lower carbon footprint compared to copper

Flexible; fewer fittings and reduced liability	Yes	No
Resists corrosion, pitting and scaling	Yes	No
Eliminates torches, solder, flux and go/no-go gauges	Yes	No
Dampens rushing water noise; eliminates water hammer and singing pipes	Yes	No
Retains more heat in hot-water lines and resists condensation on cold-water lines	Yes	No
Cannot be dry-fit ¹	Yes	No
NSF International certification for water purity	Yes	No ²
Resistant to freeze damage	Yes	No
Cost-effective, stable price	Yes	No
Sustainable	Yes	No



PE-Xa vs CPVC

Air Pressure Testing CPVC is dangerous

CPVC manufacturers do not recommend air testing because the product is quite brittle. PEX, however, can be air-tested at normal operating pressures, allowing the installers testing the systems before water enters the pipes.

Bend Radius

CPVC are quite rigid and have a large bend radius. PEX offer a much tighter bend radius at about 5 times the outer diameter.

Leaks or Fittings Blow Off

The most common installation practice is to dry-fit CPVC fittings and tubing. This can cause major problems with leaking or fittings blowing off months after the install because the plumber neglected to cement the joint.

Inconsistent Cement Application

Excess cement will continue to soften the interior wall of the system until the wall balloons and ultimately ruptures. Inadequate cement leaves gaps in the joint, providing an access for water leaks.

Up to 40% more fittings

Since CPVC is more rigid and cannot be bent around corners like PEX, it requires more joints and fittings with each change of direction.

Weather conditions hinder cement effectiveness

Rain and high humidity can hinder CPVC connections because the presence of moisture dilutes the cement before the joint can properly seal. Also, high humidity can lengthen the drying time of the cement.

Reliable PEX Connection

Uponor Q&E fitting system is not a dry-fit connection. An expander tool expands the Q&E ring and pipe to insert a fitting. Then the tubing and the ring shrink around the fitting as they return to their original shape, making the connection watertight without the use of torches, glues or gauges.

Features	PEX	CPVC
Torches, glues, solvents and gauges necessary	No	Yes
Visual connection	Yes	No
Flexible for a tight bend radius	Yes	No
Rain and high humidity affect connections	No	Yes
Quick and simple fitting connections	Yes	No
Dry-fit connections	No	Yes
Air testing recommended	Yes	No



PE-Xa vs PPr

Long Installation time

Thermofusion (electrofusion) requires a softening at 150°C and melting point at 165°C. Wait time for heating the tool, which increases during cold weather. Time for marking the pipe before starting. Warm time for each fitting and pipe. Fusing time for each jointing. Cooling wait time is necessary before next connection. More unsafe and extremely difficult connections under the ceiling.

Difficult to install properly

The fitting/pipe must be clean and introduced in a straight way without turning. The pipe can get blocked if the steps are not followed in a proper way. Therefore pressure loss depends on installer's skills.

Damages

The pipes can't be pile up higher than 1,2m to prevent break damage. Impacts and excessive pipe overloads in temperatures lower than 0° C must be avoided.

Shorter Lifetime

PPr installations have a shorter life time. Lifetime, pressure and temperature influence negatively the properties of the pipe (see chart on next slide).

Large wall thickness / Reduced Bend Radius

The PPr pipes recommended for TW & RC installations is S 3.2 instead of S 5.0. The pipes have thick walls in order to make the pipe more resistant, resulting in higher weight of the pipes, less flexibility, higher pressure loss, higher in wall space.

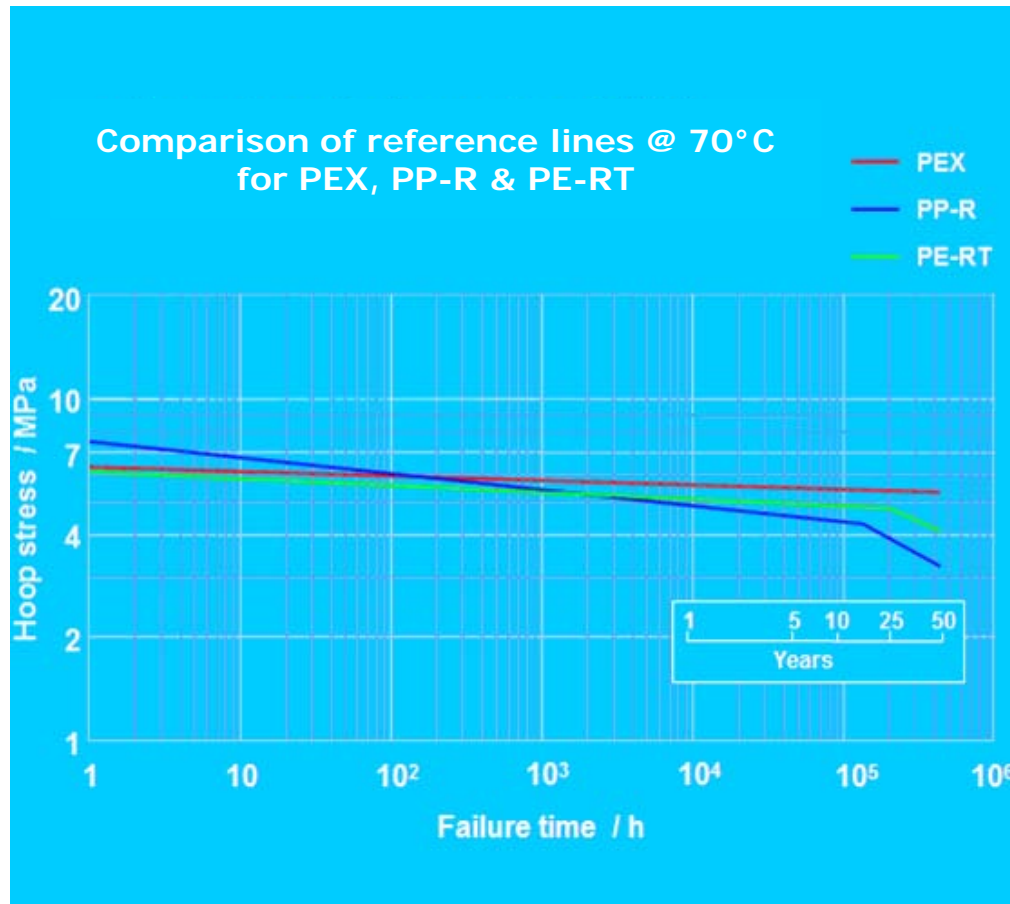
Up to 40% more fittings

Since CPVC is more rigid and cannot be bend around corners like PEX, it requires more joints and fittings with each change of direction.



PEX vs. PPR / PE-RT

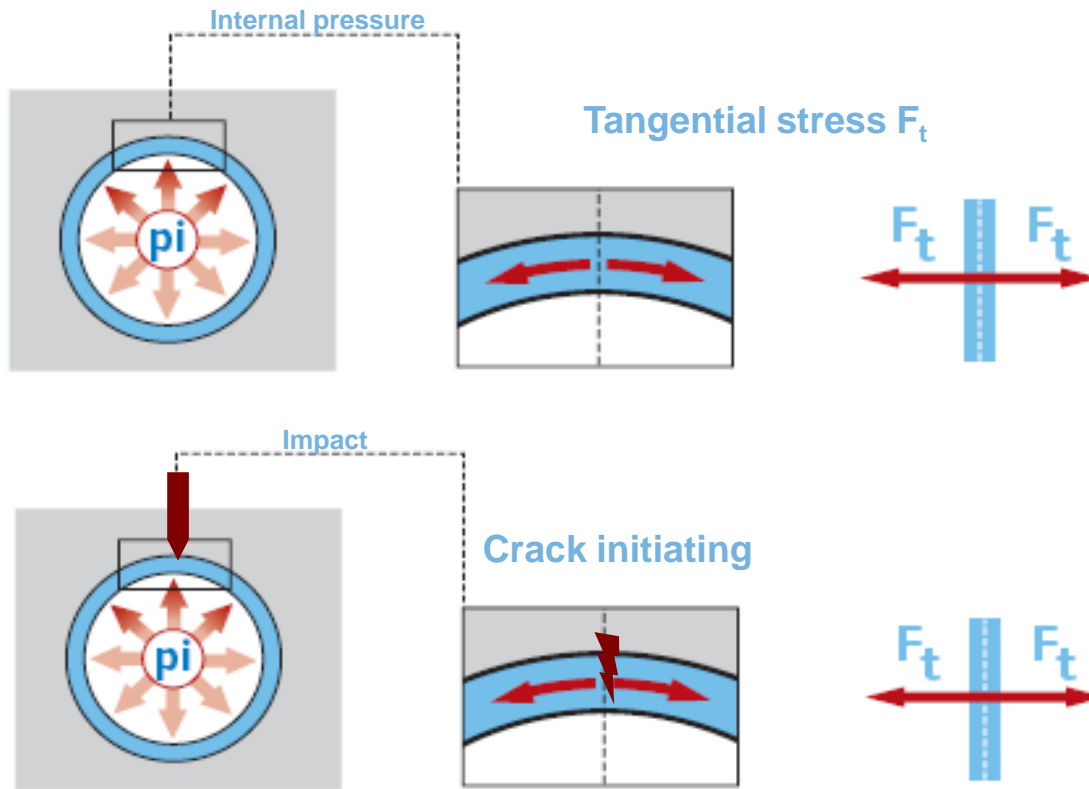
Creep / Hydrostatic Strength



- Pex-a has been used over 40 years= long experience, good track record also after 50 years
- PERT short experience in general. After 25 years the pipe loses on strength

Plastic Cracks

Rapid Crack Propagation



⇒ **Cracking, because of critical state (critical temperature or critical pressure) = Rapid Crack Propagation RCP**

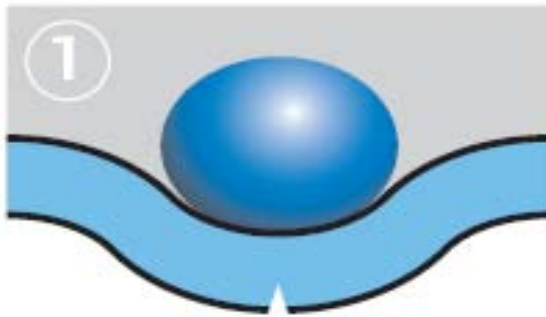
- Uponor PEXa is scratch resistant.

- Even scratches with a depth of 15% of the wall thickness of Uponor-PEX have no influence on the long-term strength of the pipes.

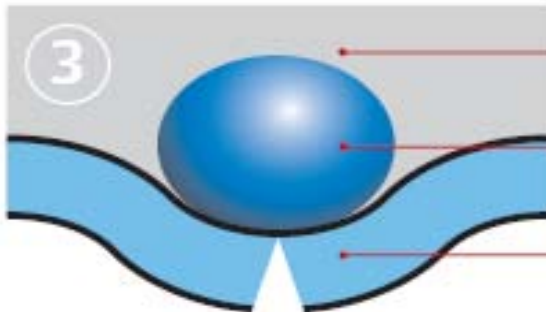
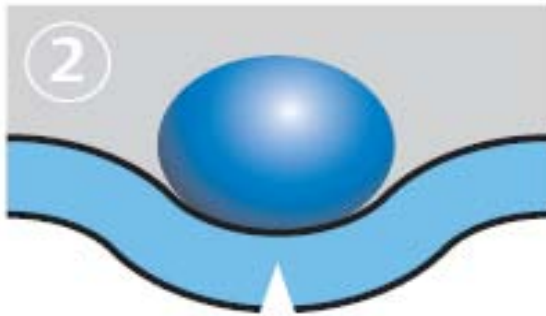
- PE-RT is not scratch resistant. Cracks initiating at small damages

Plastic Cracks

Slow Crack Growth



Slow crack growth SCG from inside to outside



Solid rock particle

Pointload

Pipe wall

PEXa



PERT



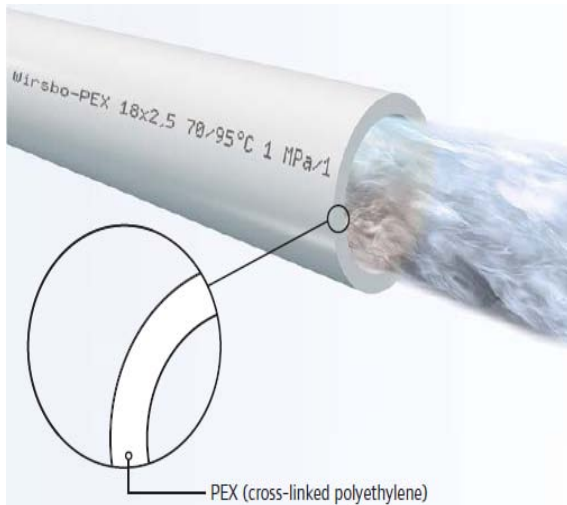


PE-Xa pipes

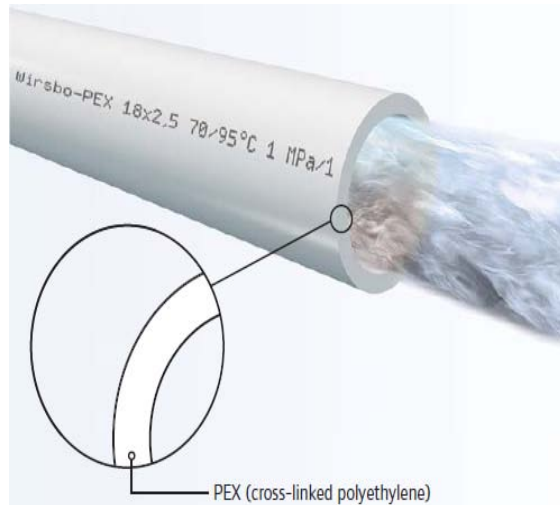
Pipe overview

Uponor Aqua pipe (without oxygen barrier)

6 bar



10 bar

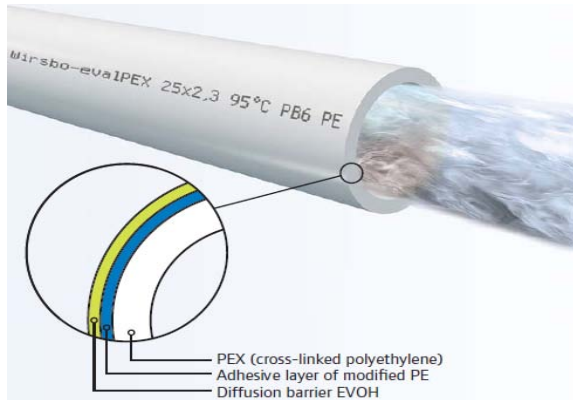


Potable Water

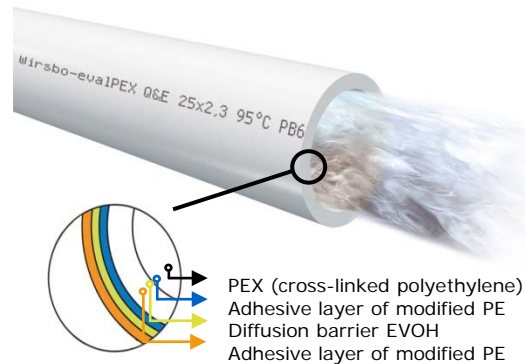
- Max design temperature: 90°C
- Malfunction temperature 100°C
- Design pressure 6/10 Bar at 70°C
- Fire class: E according DIN EN 13501-1

Pipe overview

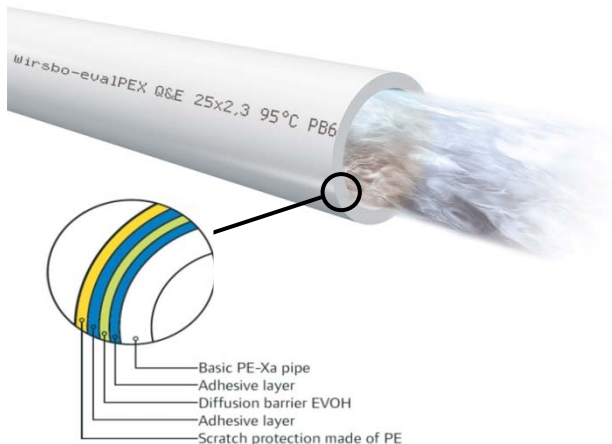
Uponor evalPipe (3-layers)



Uponor Comfort Pipe (4-layers)



Uponor Comfort Pipe PLUS (5-layers)



Heating and Cooling

- Max design temperature: 90°C
- Malfunction temperature 100°C
- Design pressure 6 Bar at 70°C
- Fire class: E according DIN EN 13501-1

Technical data sheets

Technical Information

- For all our pipe systems technical data sheets are available on request

For tap water pipe		
Pipe type	Uponor PEX pipe	
Pipe dimensions	16x2,2 mm	
Coil lengths	3 ; 6 ; 50 ; 100 ; 300 m	
Weight	0,097 kg/m	
Pipe marking	Uponor PEX 16x2.2 EN ISO 15875 A PE-Xa Class 2/10 bar KIWA ATG 2196 DVGW AQ2879 SABS 7948/12688 ÖVGW W1.124 ÖNORM GEPRÜFT MPA-DA VA (Insta cert hand-logo) SP (Country code, Material code pipe, Machine number, Year, Month, Date) Made in Sweden	
Water content	0,101 l/m	
Material	PE-Xa	
Colour	Natural white	
Approvals	KIWA , DVGW , ÖVGW , SABS , ATG , Polymark	
Production	according to EN ISO 15875	
Oxygen tightness		
Density	0,938 g/cm ³	
Thermal conductivity	0,35 W/m °C	
Linear expansion coefficient	at 20°C 0,00014 m/m °C at 100°C 0,000205 m/m °C	
Melting point	+ 130 °C	
Building material class	B2	DIN 4102
Minimum bending radius	8 x D ; without support 5 x D ; heated and bent with support	
Pipe roughness	0.0005	
Operating range for heating	according temperature profile in standard	EN ISO 15875
Operating temperature	according temperature profile in standard	EN ISO 15875
Operating pressure	according to design pressure for the pipe	
Pipe connections		
Optimum installation temperature	≥ -10 °C	
Approved water additive		
UV protection	opaque carton (leave unused pipe in cartonbox)	
Mechanical and physical properties of PE-Xa		
base pipe:		
Tensile strength	at 20°C 19-26 N/mm ² at 100°C 9-13 N/mm ²	DIN 53455
Fracture limit	at 20°C 25-30 N/mm ²	
Elongation at fracture	at 20°C 350-550 % at 100°C 500-700 %	DIN 53455
E-module (secant) in tensile test at 100% min.	at 0°C 1000-1400 N/mm ²	DIN 53457
And 1% elongation	at 20°C 800-900 N/mm ² at 80°C 300-350 N/mm ²	
Impact resistance	at 20°C without fracture at 100°C without fracture	DIN 53453
Resistance against tension fracture	> 20.000 h without fracture	
Water absorption	0,01 mg /4d	DIN 53472
Degree of crosslinking	≥ 70 %	EN ISO 1587
Waste code		

For tap water pipe		
ns	Uponor PEX pipe	
	20x2,8 mm	
	3 ; 6 ; 50 ; 100 m	
	0,154 kg/m	
	Uponor PEX 20x2.8 EN ISO 15875 A PE-Xa Class 2/10 bar KIWA ATG 2196 DVGW AQ2879 SABS 7948/12688 ÖVGW W1.124 ÖNORM GEPRÜFT MPA-DA VA (Insta cert hand-logo) SP (Country code, Material code pipe, Machine number, Year, Month, Date) Made in Sweden	
	0,155 l/m	
	PE-Xa	
	Natural white	
	KIWA , ATG , SABS , ÖVGW , Polymark according to EN ISO 15875	
ess		
	0,938 g/cm ³	
activity	0,35 W/m °C	
on coefficient	at 20°C 0,00014 m/m °C at 100°C 0,000205 m/m °C + 130 °C	
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s	0.0005	
ge for heating	according temperature profile in standard	EN ISO 15875
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ns		
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er additive		
	opaque carton (leave unused pipe in cartonbox)	
d physical properties of PE-Xa		
th	at 20°C 19-26 N/mm ² at 100°C 9-13 N/mm ² at 20°C 25-30 N/mm ²	DIN 53455
fracture	at 20°C 350-550 % at 100°C 500-700 %	DIN 53455
ant) in tensile test at 100% min.	at 0°C 1000-1400 N/mm ²	DIN 53457
ation	at 20°C 800-900 N/mm ² at 80°C 300-350 N/mm ²	
nce	at 20°C without fracture at 100°C without fracture	DIN 53453
ainst tension fracture	> 20.000 h without fracture	
ation	0,01 mg /4d	DIN 53472
crosslinking	≥ 70 %	EN ISO 1587

What is Pex?

Degrees of crosslinking by method.

- PEX-a (Engel) 80% plus
- PEX-b (Silane) 65-70%
- PEX-c (Radiation) 70-75%



Crosslinked

X

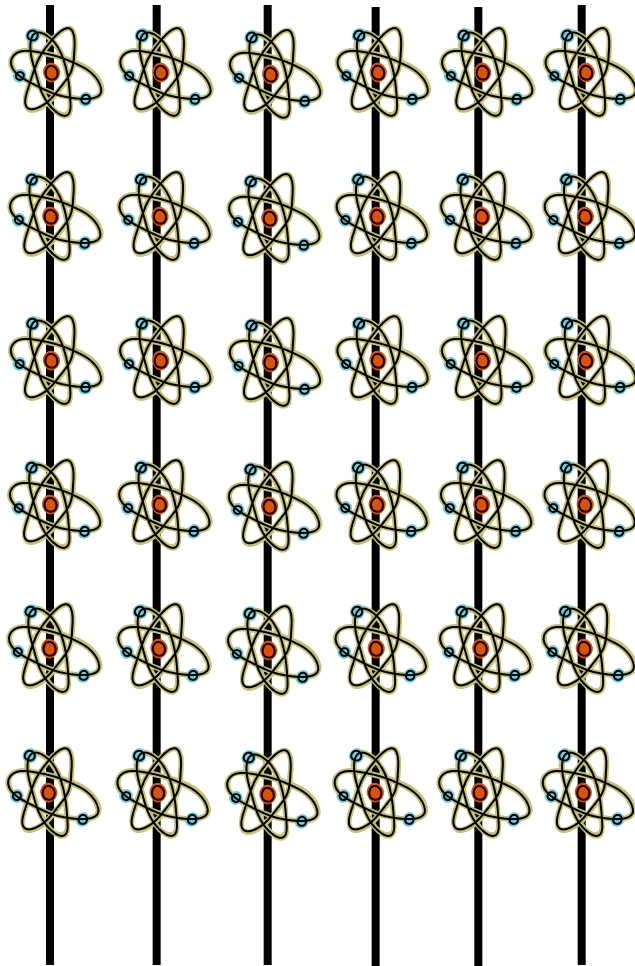
Polyethylene

PE

Poly

Vs.

PEX



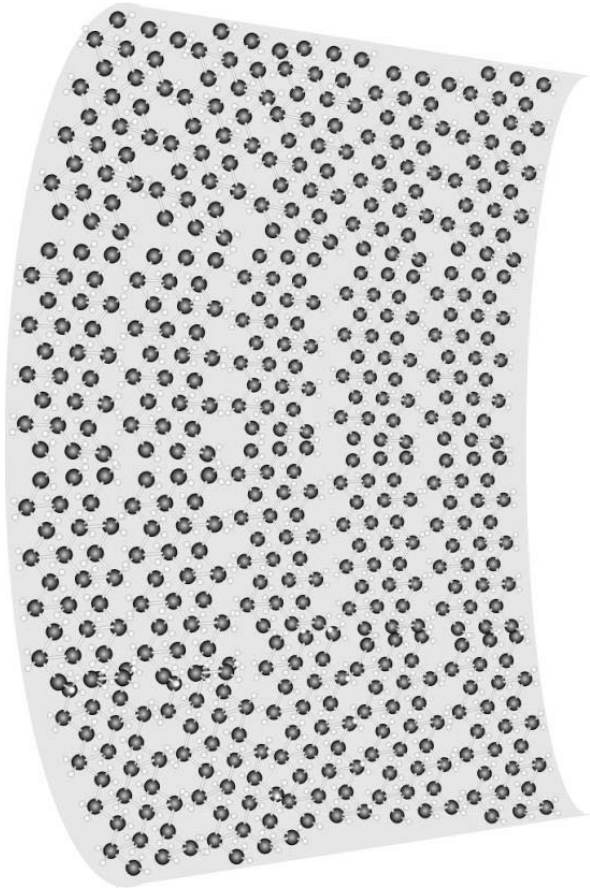
Carbon atoms

Non Cross linked



Cross linked

PEX-A



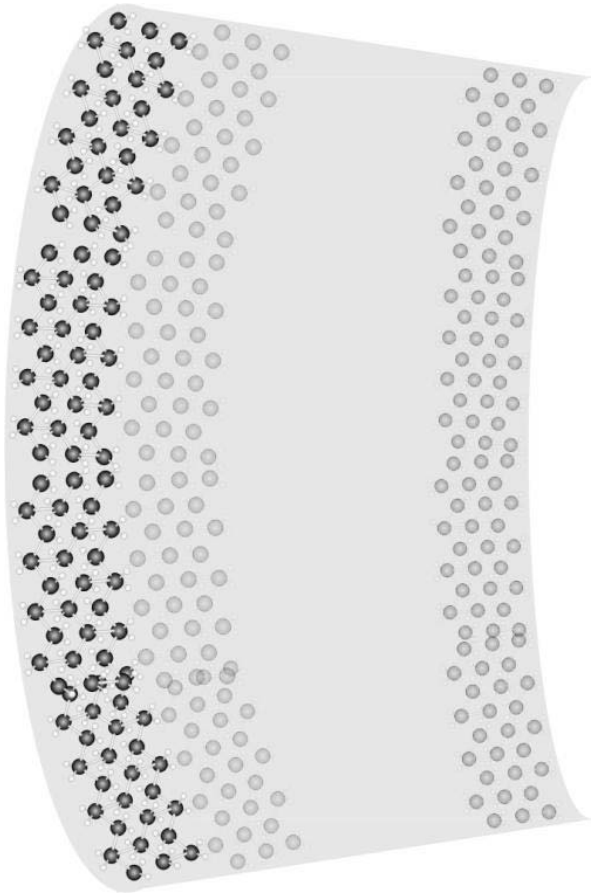
Section View

Consistency and Uniformity of Cross Linking

PEX-A (PE-Xa, PEXa)

- PEX-A is produced by the peroxide (Engel) method
- This method performs "hot" cross- linking, above the crystal melting temperature
- Results in more consistent and uniform cross-linking with better control over the production process

PEX-B



Section View

Less Consistency and
Uniformity of Cross Linking

PEX-B (PE-Xb, PEXb)

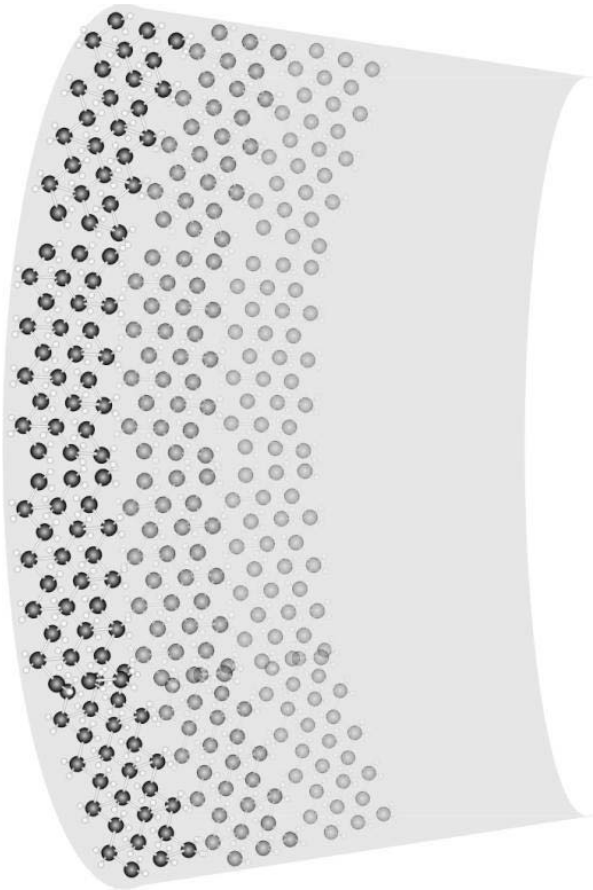
- The silane method, also called the "moisture cure" method
- Cross-linking is performed in a secondary post-extrusion process
- The process is accelerated with heat and moisture.

PEX-C

Less Consistency and
Uniformity of Cross Linking

PEX-C (PE-Xc, PEXc)

- PEX-C is produced through electron beam processing
- A "cold" cross-linking process (below the crystal melting temperature)
- Results in less uniform, lower-degree cross-linking than the Engel (PEX-a) method
- When the process is not controlled properly, the outer layer of the tubes become brittle



Section View

Uponor PE-Xa pipes

Advantages



flexible



sound
adsorbing



low
friction



vibration
adsorbing



low weight



thermal
memory



crack
resistant



long
lifetime



environmental
friendly



approved



withstands high
temperatures



electrically
insulation



ductile



resistance to
abrasion

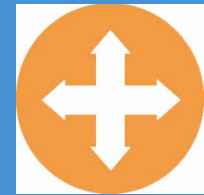


withstands
extreme cold

Flexible



The flexibility of Uponor PEX pipe is yet another advantage compared with metal pipes. There is no need for expensive expansion bellows or their equivalents.

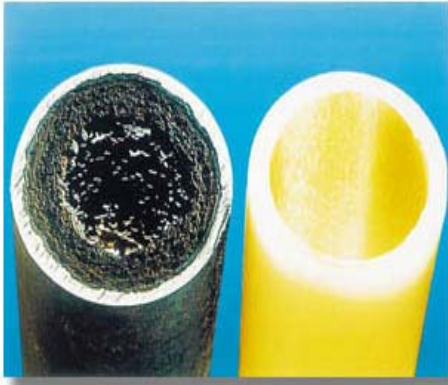


Sound absorbing

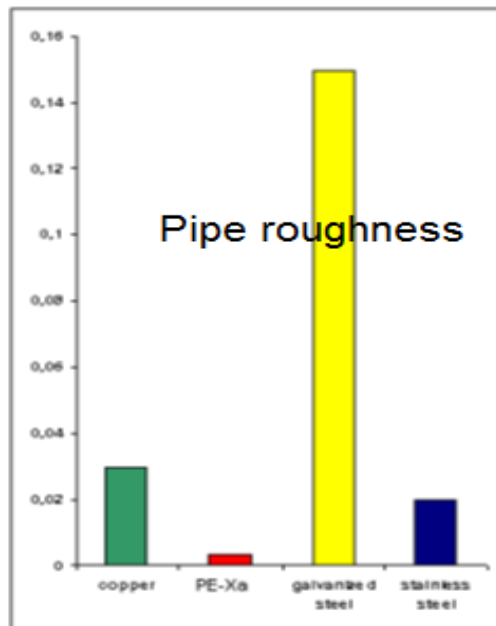
Uponor PEX absorbs sound, which means you can transport materials without the risk of loud noise levels.



Low friction

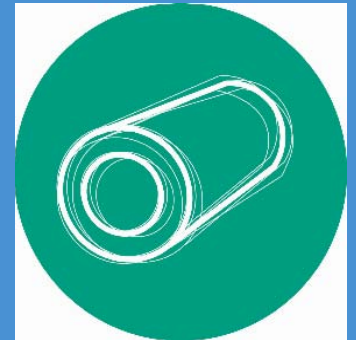


The extremely low friction coefficient of Uponor PEX reduces the pressure-drop in the pipework and minimizes the risk of deposits.



Vibration absorbing

Uponor PEX absorbs and withstands vibrations. There's no need to combine metal pipes with vibration-absorbing hoses or connectors, giving you higher reliability and lower costs, particularly during installation.



Low weight



Uponor PEX weighs just a fraction of an equivalent metal pipe. This is often an advantage, and sometimes a crucial one.



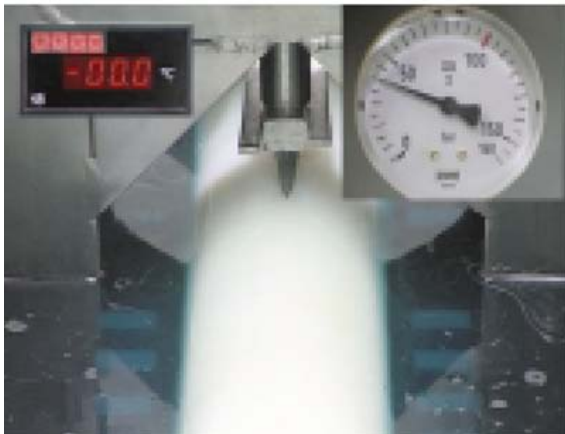
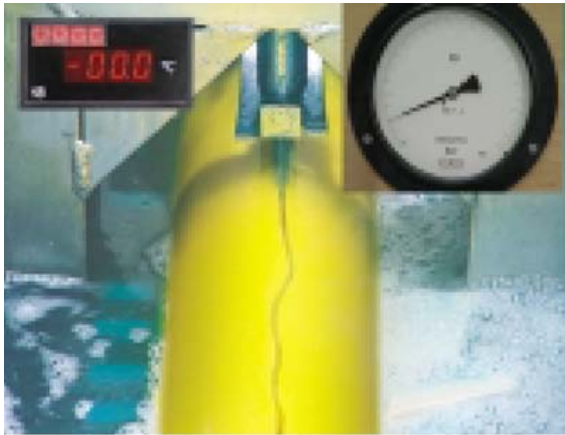
Thermal memory



When Uponor PEX is heated to its softening temperature, the material reverts to its original shape. This characteristic is used to give a very reliable method for shrink-mounting sealing devices, for example.



Scratch resistant



Uponor PEX withstands scratches without being weakened because it is resistant to crack growth. This characteristic makes it possible, for example, to locate pipes directly in stony ground without expensive groundworks.



Long term stability

Few materials have undergone such extensive long-term testing as Uponor PEX. Ten years continuous pressure testing at 95°C and an uninterrupted long-term test since 1972 are just two examples. The material has been well tried and tested in many different applications over a long period of time.



Low environmental load



Uponor PEX is a material with low environmental impact during both manufacturing and energy recovery.



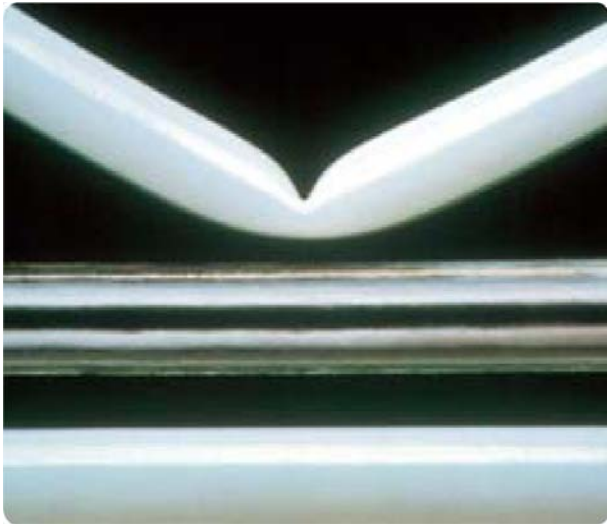
Clean



The pipe does not release any harmful substances. That's why it's also approved for transporting drinking water. The material's exceptional cleanness is also utilized in medical equipment.



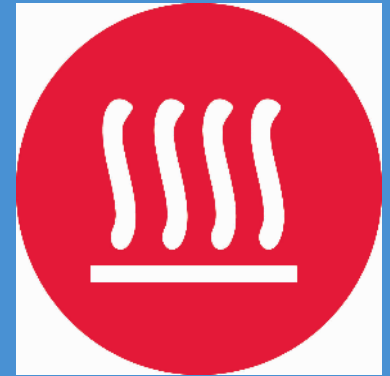
Withstands high temperature



The pipes can be used at a working temperature of 95°C, but withstand 120°C within time and pressure limits.

“Kinks” can easily be remedied using a hot-air gun.

This method can also be used for sealing devices, shrinking them to fit using heat.

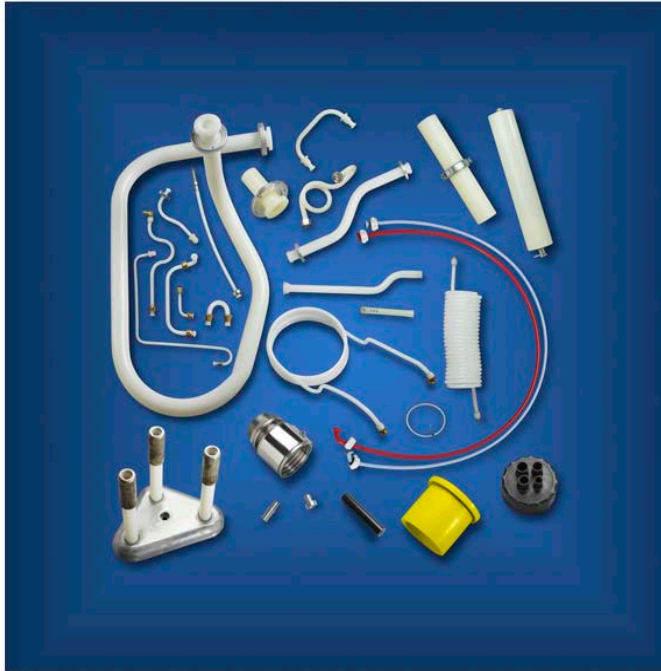


Electrically insulating

The electrical insulating characteristics of Uponor PEX are on a par with the best insulating materials. The material is nonpolar and also totally free from impurities.



Ductile



The great freedom to shape Uponor PEX pipes makes them an excellent replacement for e.g. shaped metal pipes.



Resistance to abrasion



The abrasion characteristics are very good; erosion corrosion does not occur even at high water speeds. That's why Uponor PEX pipes are used to transport highly abrasive sand slurry, for example.



Withstands extreme cold



Uponor PEX has unchanged impact strength even at temperatures below -100°C . This characteristic is exploited in refrigeration systems for ice rinks, for example.





Fittings

Q&E: PPSU

DIM 16-63



- For Plumbing / Heating / Cooling
- Q&E 16-63mm
- DIM 75-110mm > modular riser system
- 6/10 bar

16x2.0

20x2.0

25x2.3

32x2.9

40x3.7

50x4.6

63x5.8



Q&E: Brass / DR Brass

DIM 16-63



- For Plumbing / Heating / Cooling
- Q&E 16-63mm
- DIM 75-110mm > modular riser system
- 6/10 bar

16x2.0

20x2.0

25x2.3

32x2.9

40x3.7

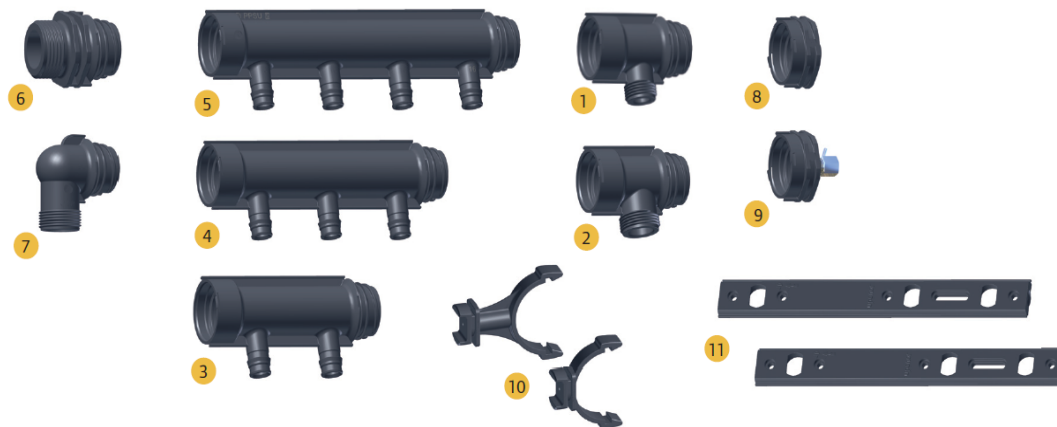
50x4.6

63x5.8



Modular Plastic Manifolds

DIM 16-25



Uponor No.	Name	Dimension	pcs/bag	pcs/box	EAN code
1	1047997 Uponor PPM 1" Manifold c/c 50	1 x G½	1	20	6414905200979
2	1047998 Uponor PPM 1" Manifold c/c 50	1 x G¾	1	20	6414905200986
3	1047999 Uponor PPM 1" Manifold Q&E c/c 50	2 x 16	1	10	6414905200993
4	1048000 Uponor PPM 1" Manifold Q&E c/c 50	3 x 16	1	8	6414905201006
5	1048001 Uponor PPM 1" Manifold Q&E c/c 50	4 x 16	1	6	6414905201020
6	1048002 Uponor PPM 1" Straight connection	¾	1	20	6414905201044
7	1048003 Uponor PPM 1" Elbow connection	¾	1	20	6414905201051
8	1048004 Uponor PPM 1" End cap		1	20	6414905201068
9	1048005 Uponor PPM 1" End cap with air nipple		1	20	6414905201075
10	1048006 Uponor PPM 1" Clips for cabinets type 1-3		Set 2+2/bag	50 bags/box = 200 pcs	6414905201082
11	1048007 Uponor PPM 1" Wall bracket		pair		6414905201099



Modular Brass Manifolds

DIM 16-25

Uponor PE-Xa Q&E brass manifold

Uponor Q&E manifold male female thread PL

Made of brass. 3/4 female thread and male thread. C/C 35 mm. Note: Uponor Q&E Ring must be ordered separately!



Item no.	outlets	d	IG	p	Description	unit 2	unit
-	mm	*	bar				
1023027	2	16	G 3/4	6+10	Uponor Q&E manifold male female thread PL 3/4"MT/FT 2X16 c/c35mm	20	1 pcs
1023028	3	16	G 3/4	6+10	Uponor Q&E manifold male female thread PL 3/4"MT/FT 3X16 c/c35mm	15	1 pcs
1023029	4	16	G 3/4	6+10	Uponor Q&E manifold male female thread PL 3/4"MT/FT 4X16 c/c35mm	10	1 pcs

Uponor Q&E manifold male female thread PL

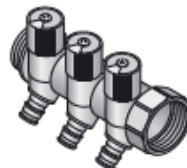
Made of brass. 1" female thread and male thread. C/C 40 mm. Note: Uponor Q&E Ring must be ordered separately!



Item no.	outlets	d	IG	p	Description	unit 2	unit
-	mm	*	bar				
1047927	2	16	G 1	6+10	Uponor Q&E manifold male female thread PL 1"MT/FT 2X16 c/c40mm	20	1 pcs
1047928	3	16	G 1	6+10	Uponor Q&E manifold male female thread PL 1"MT/FT 3X16 c/c40mm	15	1 pcs
1047929	4	16	G 1	6+10	Uponor Q&E manifold male female thread PL 1"MT/FT 4X16 c/c40mm	10	1 pcs

Uponor Q&E manifold male female, valve PL SH

Made of brass. 1 female thread and male thread with shut off valve. C/C 38 mm. Note: Uponor Q&E Ring must be ordered separately!



Item no.	outlets	d	IG	p	Description	unit 2	unit
-	mm	*	bar				
1048520	2	16	G 1	6+10	Uponor Q&E manifold male female, valve PL SH 1"MT/FT 2X16 c/c38mm	32	1 pcs
1048521	3	16	G 1	6+10	Uponor Q&E manifold male female, valve PL SH 1"MT/FT 3X16 c/c38mm	32	1 pcs
1048522	4	16	G 1	6+10	Uponor Q&E manifold male female, valve PL SH 1"MT/FT 4X16 c/c38mm	24	1 pcs

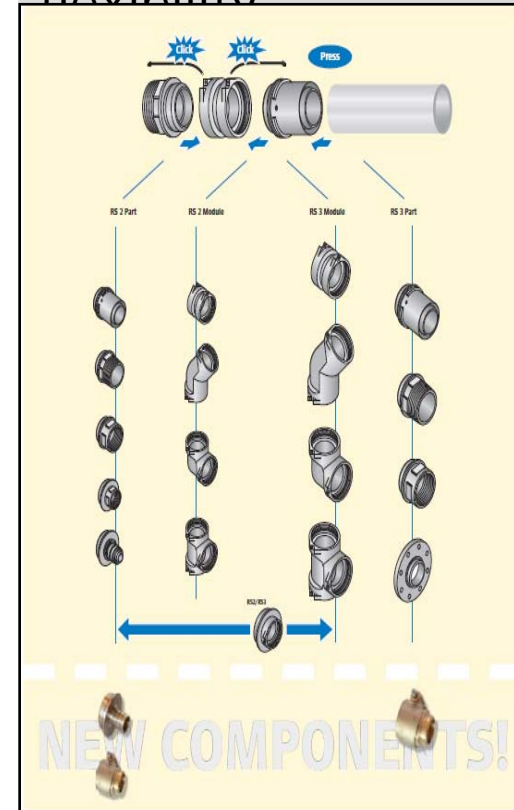


Modular Riser Fittings

Mainly for DIM 75-110



Fewer
parts, greater
flexibility

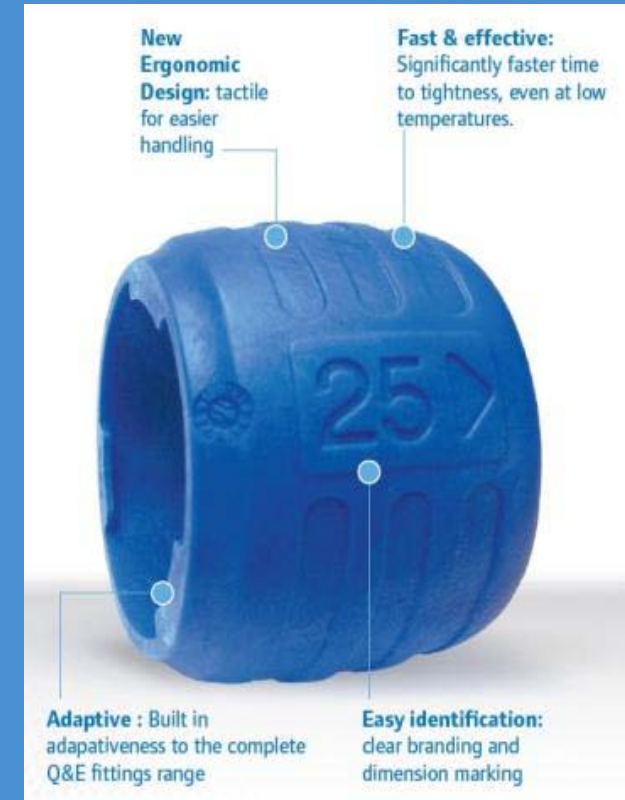




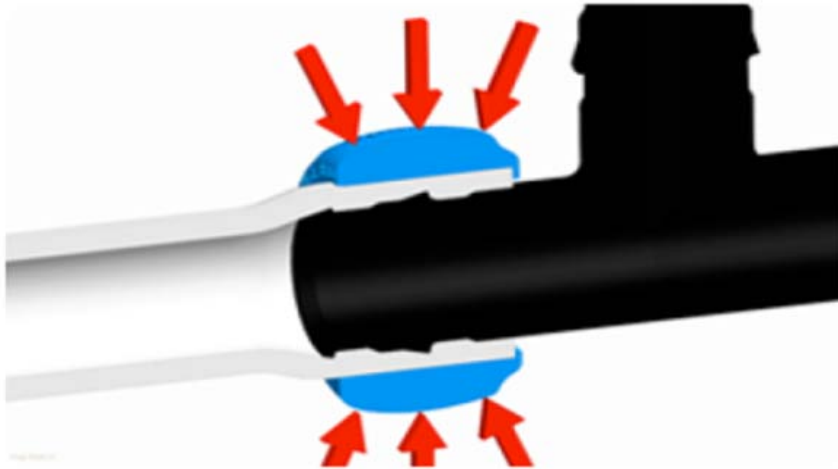
PE-Ring

Q&E Evolution ring

- **Dimensions:** 16, 20, 25 and 32 mm (DIM 40-63 traditional ring design)
- **Less waiting time for making the pressure test** in the low temperature working range (0°C to 10°C). In 16 mm, critical dimension, around 20% quicker.
- **Easy to mount.** Perfect roundness
- **Ergonomic ridges.** Better grip on pipe
- **Dimension / direction marking.** Easy to see.



Additional benefits

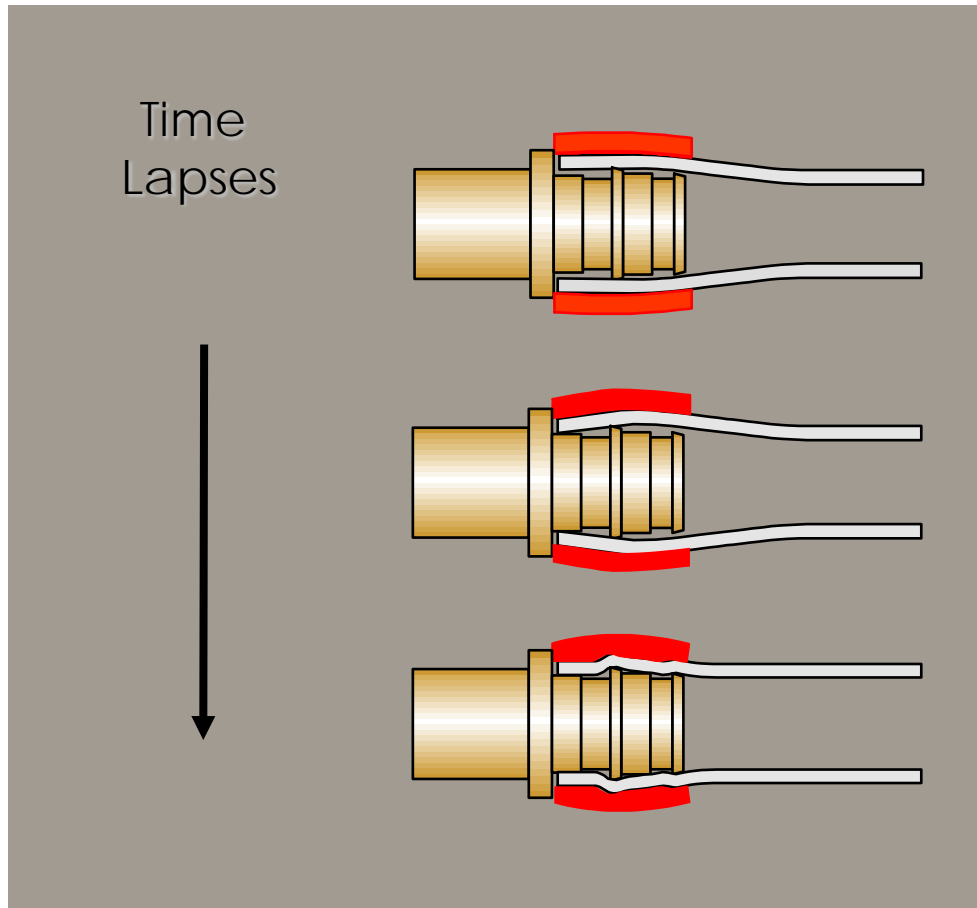


The new ring design is easing the installation in T-joints since the shape avoid collides, this is also valid when the joint has different dimensions in the outlets.



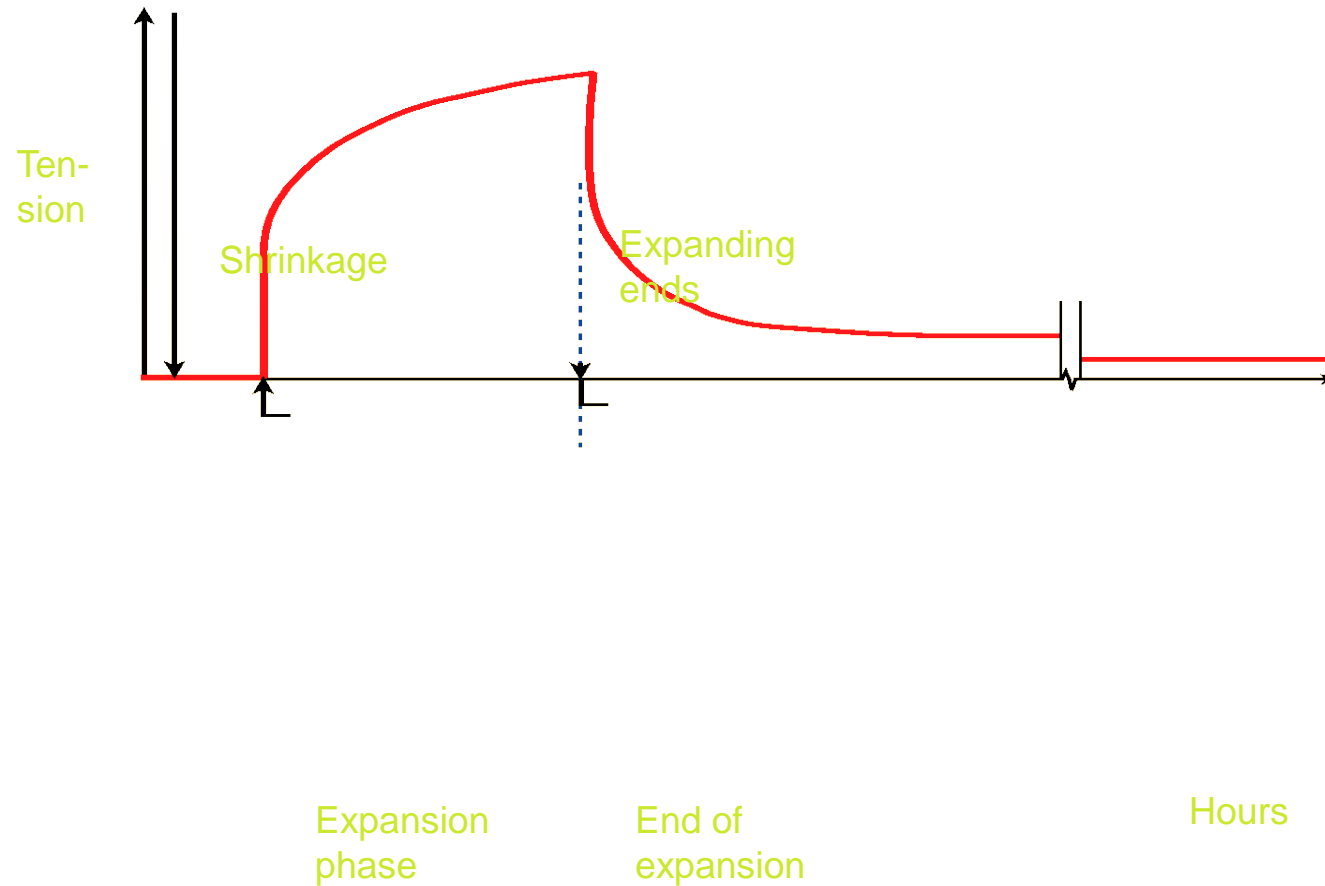
The Q&E Connection

Q&E PEX connections





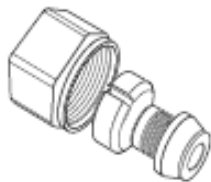

- The only connection that grows stronger over time
- Peace of mind knowing the fitting is secure
- 20+ years of field history
- Larger ID than other fittings
- No external clamp, calibration or gages
- Only PEX manufacturer who has been manufacturing PEX longer than its warranty
- Can be repaired and fittings can be re-used

Uponor – Q&E system



The elasticity of the Uponor PE-Xa material

Other connections & DIM

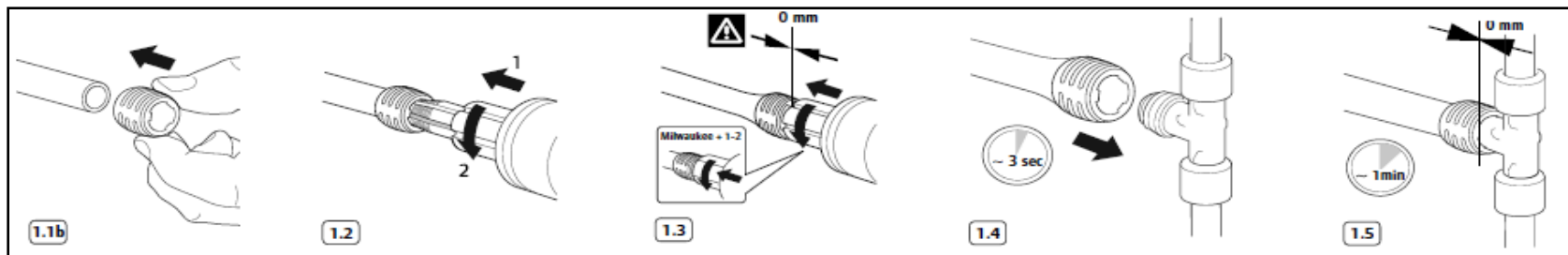
1 Q&E	2 Compression	3 WIPEX
	<div>a</div>  <div>b</div> 	
Ø 9.9 - 63 mm	Ø 12 - 25 mm	Ø 9.9 - 25 mm
		Ø 25 -110 mm

Apart from the unique Q&E connection technology, fittings in various sizes are also available as:

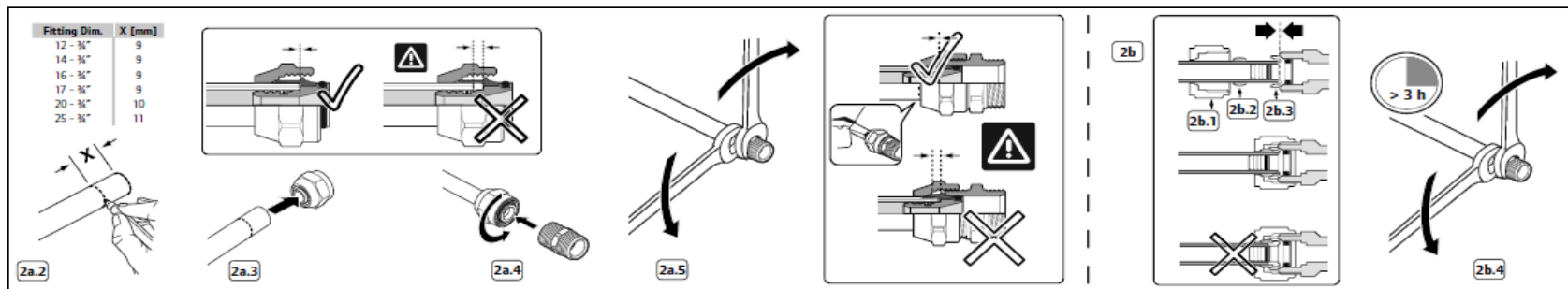
- ☐ Compression
- ☐ Flange

Installation

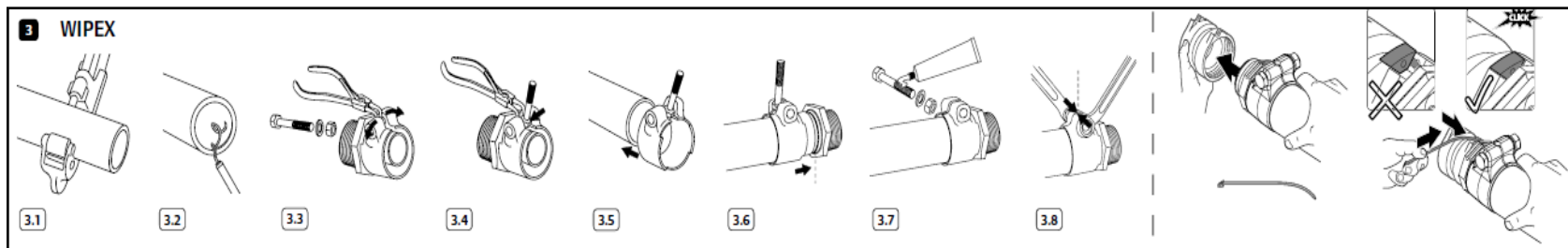
1 Q&E



2 Compression



3 WIPEX





Tools

Mounting Tools



M 12



M 18



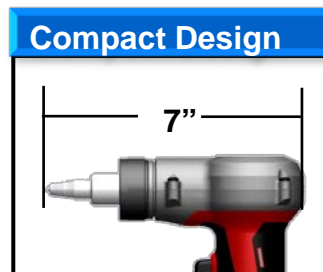
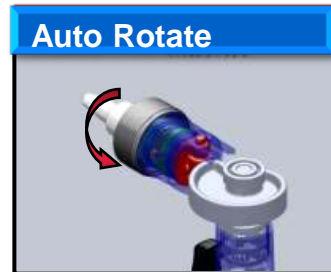
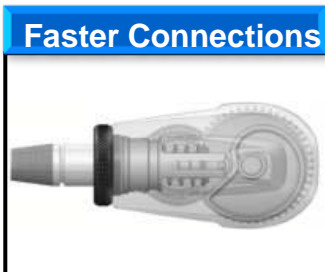
REMS

	M12		M18	M18	REMS		WIPEX
DIM	6 bar	10 bar	6 bar	10 bar	6 bar	10 bar	6 bar
16	x	x	x	x			x
20	x	x	x	x			x
25	x	x	x	x			x
32	x		x	x			x
40			x		x	x	x
50					x	x	x
63					x		x
75							x
90							x
110							x

Mounting Tools

Uponor / Milwaukee Q&E battery tool set M12

- Battery powered expander tool
- Quick charger
- Two battery's
- Low Weight
- Available as 6 bar/10 bar set
- Built-in battery fuel gauge displays remaining run-time
- Compatible with Uponor standard heads



Mounting Tools

Uponor Q&E battery tool M12

- Battery powered expander tool for **6 bar** pipes up to dimension **32mm** and
- for **10 bar** pipes up to **25 mm**.
- Auto-rotating with M12 expander heads.
- < 10seconds full expansion onto a joint
- < 2.2kg with head and battery
- Steel gear and integrated metal frame
- LED work light, fuel gauge, Tool free head change
- incl. 2 Li-ion 1.5 Ah batteries, charger 220-240V/50-60Hz and grease



Mounting Tools

Uponor Q&E battery tool M18

- Battery powered expander tool for **6 bar** pipes up to dimension **40mm** and
- for **10 bar** pipes up to **32 mm**.
- Auto-rotating with M18 expander heads.
- < 10seconds full expansion onto a joint.
- < 2.2kg with head and battery
- Steel gear and integrated metal frame
- LED work light, fuel gauge, Tool free head change
- incl. 2 Li-ion 1.5 Ah batteries, charger 220-240V/50-60Hz and grease



Mounting Tools

Uponor Q&E Expansion tool REMS 40/50

Electro-mechanical drive with automatic return delivered in steel case with tool manual.

Working range with 10 bar PE-Xa pipes: 40 – 50 mm

Working range with 6 bar PE-Xa pipes: 40 – 63 mm

Fit to Uponor expander heads 40 mm (1004035), 50 mm (1004037) and 63 mm (1004038) for both pressure classes.

Technical data:

Voltage: 220 – 240V

Wattage: 450 W

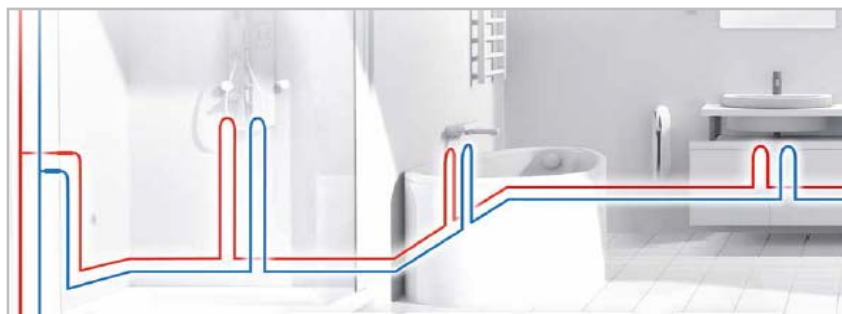




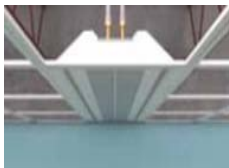
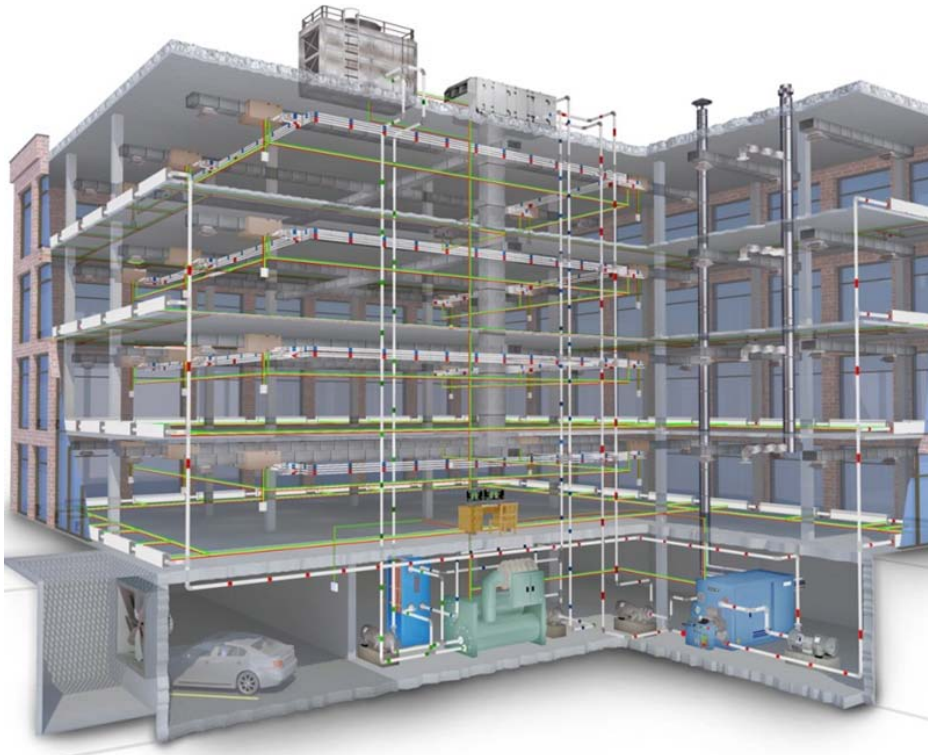
Applications

Tap Water

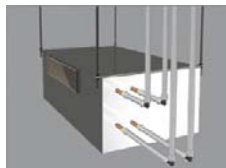
Uponor PE-Xa pipes PN 6 / PN 10; 16-110mm



HVAC



Chilled Beam



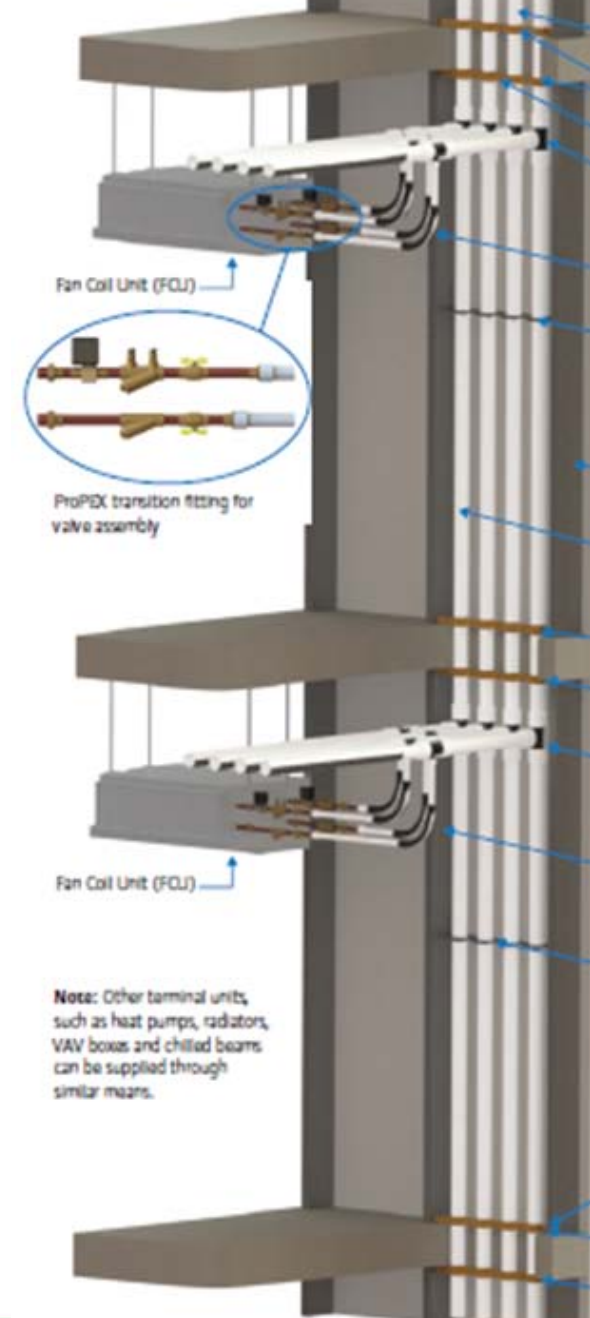
Exposed Horizontal
Fan Coil



Single-duct Digital
VAV Box



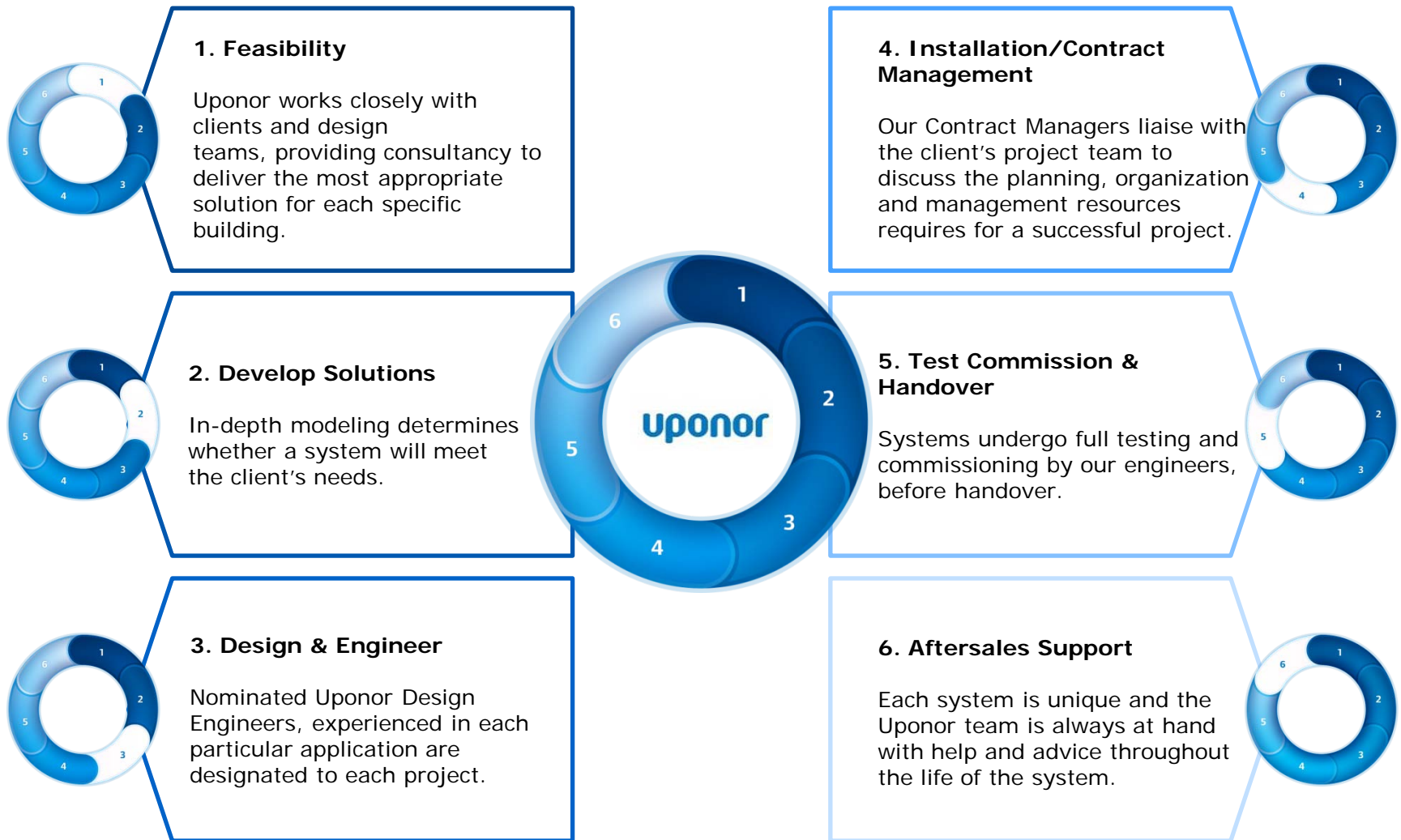
Hi-stack Vertical
Fan Coil





Services

Engineering & Design

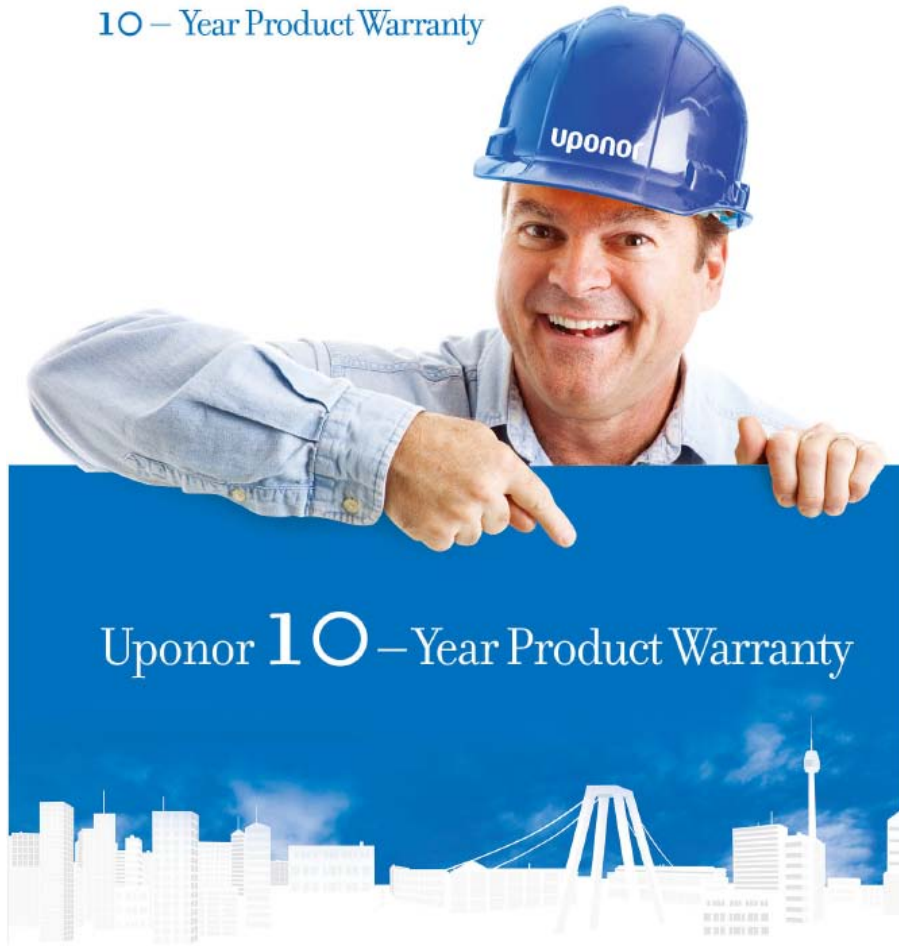




Warranty

Warranty

10 – Year Product Warranty



- In Asia Uponor offer a product warranty as long as 10 years
- The coverage is not limited to the products themselves but also includes direct damages related to faulty Uponor products
- It has never been used ...



Certificates

Tried, tested and certified



- We have produced enough PEX pipe since 1972 to go around the world more than 80 times. Nearly all of it is still in service somewhere in the world.
- The PEX pipe has been tested, approved and certified in numerous countries for everything from cleanness to strength.
- Approx. 90 approvals and certificates worldwide underline our technical and quality know-how



Documentation

Uponor's unique Q&E





References

Why choose Uponor PE-Xa ?

1. PEX Pioneer with more than 35 years of successful service
2. More than 12 billion feet in service worldwide
3. Total system from 16-110mm, simple and quick to install
4. Connection is even stronger than the tubing
5. Thermal memory allows for easy repairs
6. Low thermal transfer, virtually sweat-free; freeze-resistant
7. Corrosion-resistance
8. Quiet, no water-hammer
9. No solder, flux, glues or solvents
10. Warranty on plumbing systems of 10-years

The World's First,
Best and Most Widely
Used PEX Systems