

Moving hygiene forward with Uponor water systems

Uponor

Efficient and reliable installations
for residential and commercial buildings



➤ Content

Composite pipe installations

Distribution pipes

Uponor Uni Pipe PLUS	4
Multi-layer composite pipe, dimensions up to 32 mm	

Fitting systems pipes

Uponor S-Press PLUS	6
Press technology for composite pipes, dimensions up to 32 mm	
Uponor S-Press PLUS	10
Sound and leak protection	

04

Uponor Uni Pipe PLUS

Highly flexible multilayer composite pipe



12

Uponor Motion

Intelligent flushing system



18

Uponor MLC

Multi-layer composite pipe system for risers



20

Uponor S-Press PLUS

New generation of press fittings for composite pipes



34

Uponor PEX Pipe Blue

The world's first bio-based PEX Pipes*



Hygiene flushing system

Uponor Motion	12
Intelligent flushing system	

Risers

Uponor MLC	18
Multi-layer composite pipe, dimensions 40 – 110 mm	

Fitting systems MLC risers

Uponor S-Press	20
Press fitting system for risers, dimensions 40 – 75 mm	

Uponor RS	22
Modular press fitting system for distribution lines and risers	

PE-Xa installations

PE-Xa pipes

Uponor PE-Xa system	26
Flexible pipes for potable water and heating systems	

Uponor Aqua Pipe	28
Pipe system for tap water application and distribution lines	

Uponor Radi Pipe	30
Pipe for the connection of heating & cooling elements	

Uponor Combi Pipe	32
Versatile pipe for drinking water delivery and heating/cooling	

Uponor PEX Pipe Blue	34
The world's first bio-based PEX Pipe*	

PE-Xa fitting systems

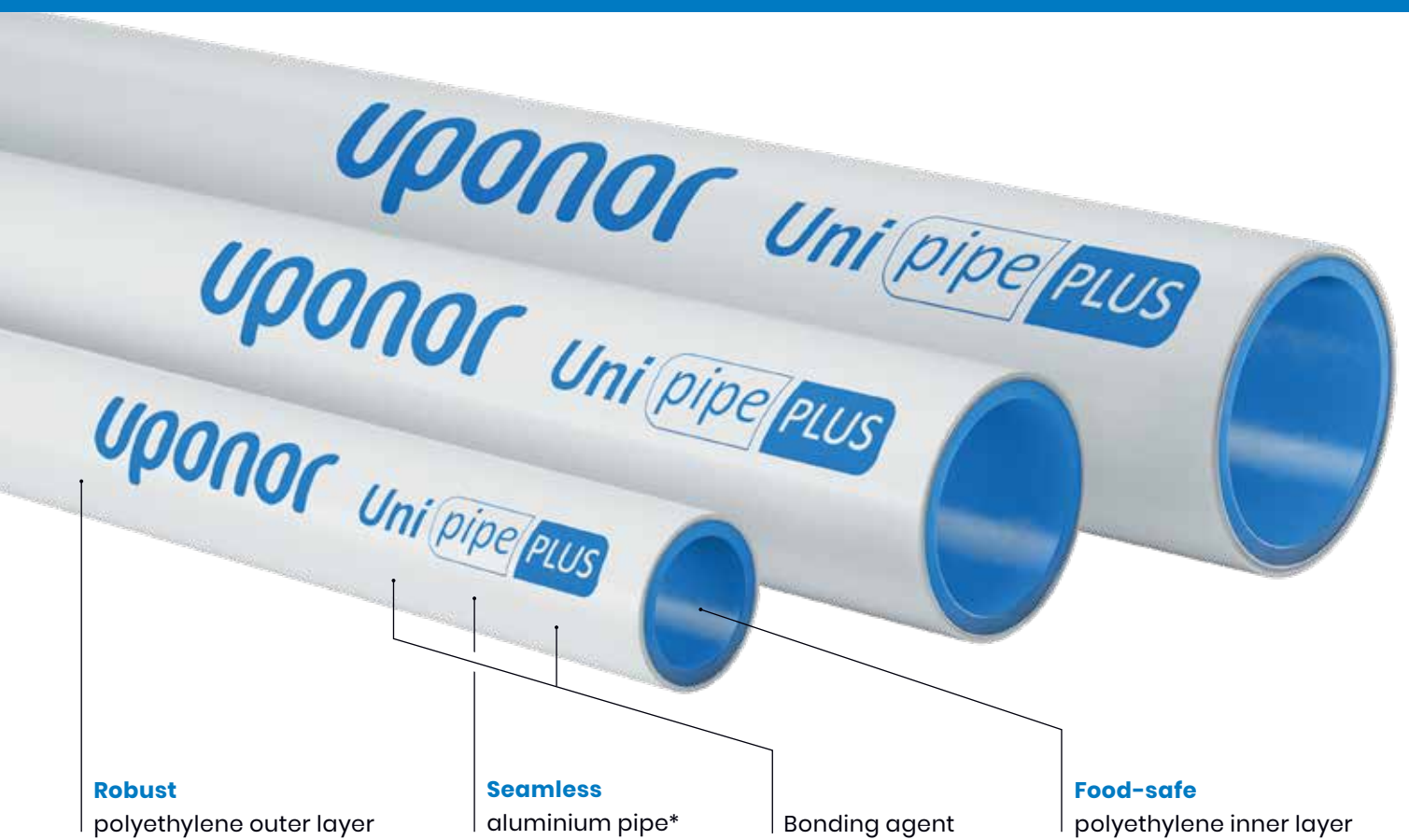
Uponor Quick & Easy	36
Joining fitting technology, dimensions up to 75 mm	

Waste water installations

Uponor Decibel	40
Soil and waste water pipes with excellent sound insulation	

*with ISCC certification, based on the mass balance approach

➤ Uponor Uni Pipe PLUS Highest bendability for fast drinking water installations



Robust
polyethylene outer layer

Seamless
aluminium pipe*

Bonding agent

Food-safe
polyethylene inner layer

* Seamless aluminium pipe with SACP technology

** OVV-Technology aluminium pipe

Uponor Uni Pipe PLUS with dimensions up to 32 mm

We offer Uni Pipe PLUS in two formats: straight lengths and coils, each with distinct advantages. Uni Pipe PLUS coils are much more flexible and bendable than standard multilayer composite pipes, allowing for faster installation and reduced costs by eliminating the need for additional components.

In contrast, Uni Pipe PLUS straight lengths feature a special aluminium layer that is more rigid than conventional. So you can provide a visually attractive, on-wall piping systems mounting solution which optimally caters to today's modern installation technology. Whichever variant you need, you are guaranteed the highest safety possible.

Change direction without additional fittings

Uni Pipe PLUS consists of a seamless or OWC-technology aluminium pipe* which not only prevents oxygen from entering, but also compensates for restoring forces and linear expansion caused by changes in temperature. To achieve this, the thickness of the aluminium has been optimally adjusted for the high pressure resistance and bendability needed. Both the inside and the outside of the pipe have been equipped with a layer of polyethylene which is resistant to high temperatures (complying with DIN 16833). All the layers are then permanently joined to one another thanks to the use of a bonding agent applied between the layers.

- 0% readjustment, pipe stays perfectly in shape after bending
- Up to 15% less fittings, due to the better bendability
- 100% backwards compatibility with Uponor leading multi-layer pipes & press fittings
- Up to 40% narrower bending radius compared to conventional multilayer composite pipes

The highly flexible multilayer composite pipe

- Complies with guidelines for the drinking water directive
- Provides highest stability and bendability
- Features the best surface finish for preventing the build-up of deposits
- Is absolutely oxygen tight and corrosion resistant
- Ensures low linear expansion
- Delivers outstanding strength against ruptures
- Has been certified by the German Technical and Scientific Association for Gas and Water (DVGW) and complies with the Guideline for the Hygienic Assessment of Organic Materials in Contact with Drinking Water (KTW)
- WRAS approved to 10 bar for heating and domestic water and 16 bar for boosted cold water

Choose your variant



Uni Pipe PLUS*

Uni Pipe PLUS pipes are available in the standard dimensions 16, 20, 25 and 32 mm (based on SACP technology).



Uni Pipe PLUS Pipe in Pipe**

Uni Pipe PLUS is also available in a pre-insulated or pipe-in-pipe version (based on overlap-welded technology).



Uni Pipe PLUS insulated**

Choose the right Uni Pipe PLUS composite pipe variant for your precise needs on site - as straight lengths or coils, pre-insulated or pipe-in-pipe (based on overlap-welded technology)



All Uni Pipe PLUS pipes can be installed easily, quickly and safely thanks to the tried-and-tested Uponor press-fitting technology. They are fully compatible with all the current Uponor systems and solutions.

➤ Uponor S-Press PLUS Designed for fast and safe connections

Tested and proved



The new generation of press fittings for composite pipes

S-Press PLUS is the perfect solution for ensuring permanently tight pipe connections. It's 100% backward compatible with current Uponor composite pipes and tools. Available in dimensions from 16 to 32 mm in both metal and plastic, S-Press PLUS is the fitting that knows no compromise: tough, safe, easy and smart.

- Durable and corrosion resistant
- Ensures perfectly tight connection
- Highly resilient
- With flow-optimised design

Experience Uponor S-Press PLUS in 3D

- 1 Scan the QR code with your **smartphone or tablet**



- 2 Click on **"Start"** or AR symbol (on the right hand side of the product image)




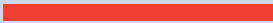

- 3 Place the product on any surface, zoom in and out, move it around



Intuitive color coding

The bright colour coding on the press indicator are easy to recognise even from far distances. The matching colour coding on the pressing jaws tells you which tool to use.

Colour code dimension

	16 mm
	20 mm
	25 mm
	32 mm





Easy

Simplifying planning and installation

- New digital engineered body design
- Decreased pressure loss by up to 60%.
- Fast 3-step installation speeds up installation because no beveling or calibration is required.
- 100% backward compatible with existing Uponor components.

Safe

Ensuring your perfect pressing result

- New sleeve design made of stainless steel ensures the Uponor U-profile jaws can be fixed more precisely than ever.
- It is impossible to press the fitting in the wrong position.
- Rapid Diameter Recognition: Even in dim or challenging construction site conditions, you can quickly and effortlessly select the correct fitting size. The bright color coding and large dimension numbers on the press indicator are easy to spot, even from a distance. Matching color codes on the pressing jaws guide you to the right tool every time.
- Unique press indicator on the stainless steel sleeve: It enables a secure check if pressed or not. The press indicator (foil) is removable as soon as the connection is safe.
- Accurate test safety function: The fitting will leak immediately if it hasn't been pressed properly, even at a very low pressure level.



Smart

Answering all your questions on site

- Innovative QR code for immediate access to:
- 24/7 tutorial and installation support
- Your individual project database
- Item list and online ordering.

Tough

Withstanding the harshest conditions

- Improved connection between new designed stop ring and fitting body for more load and shock resistance.
- New body design and stainless steel sleeve for great stability under heavy mechanical forces.
- Uponor S-Press PLUS composite makes the fitting stronger against soft water, as well as where there is low concentrations of calcium and magnesium ions.
- Water tangent material is listed on the positive list of the 4MS. Approved material to be in contact with water for human consumption.
- All raw materials used for S-Press PLUS are highly resistant to corrosion.

➤ Uponor S-Press PLUS sound and leak protection Reduced noise and increased safety



Reduce water noise. Increase installation safety.

Disturbing noise from drinking water installations can be really annoying and if they exceed a certain level they can require reworking. Our latest invention helps installers prevent this from occurring in the connection between the wall and the external pipe system.

UPONOR S-Press PLUS sound and leak protection avoids small sound bridges that conduct acoustic noise throughout the installation. The result is noise reduction that complies with the VDI 4100 regulatory standard.

In addition, the integrated drainage cap prevents water from leaking tap connections behind the wall. With the innovative drainage function in the Uponor S-Press PLUS sound and leak protection, the water is drained directly from the leaking connection to the front of the wall, where it can be easily detected.

Benefits

- 2 in 1: unique solution with dual functionalities
- Meets highest certification standard incl. DIN 18534 for drainage function
- Compatible with all recommended drain plugs
- Quick and easy detection of leaks at tap connection
- Extremely lightweight material and easy to cut with just a knife
- Similar installation steps as a tap end elbow without protection
- High installation flexibility
- Add-on for S-Press PLUS fitting series
- Available for both tap end and U-tap elbows
- Dimension 16–20 mm for tap and elbows and for U-tap and elbows
- Dimension 16 mm for mounting unit

Uponor S Press PLUS sound and leak protection with its unique drainage function

The interlocking of the mounting piece and the end cap allows water to drain away to the front of the wall in case of a leak.



Uponor S-Press PLUS sound + leak protect 16–20 mm for tap end elbows



Uponor S-Press PLUS sound + leak protect U 16–20 mm for U-tap end elbows



Uponor S-Press PLUS mounting unit sound + leak protect 16 mm

➤ Uponor Motion Ensuring water hygiene and comfort

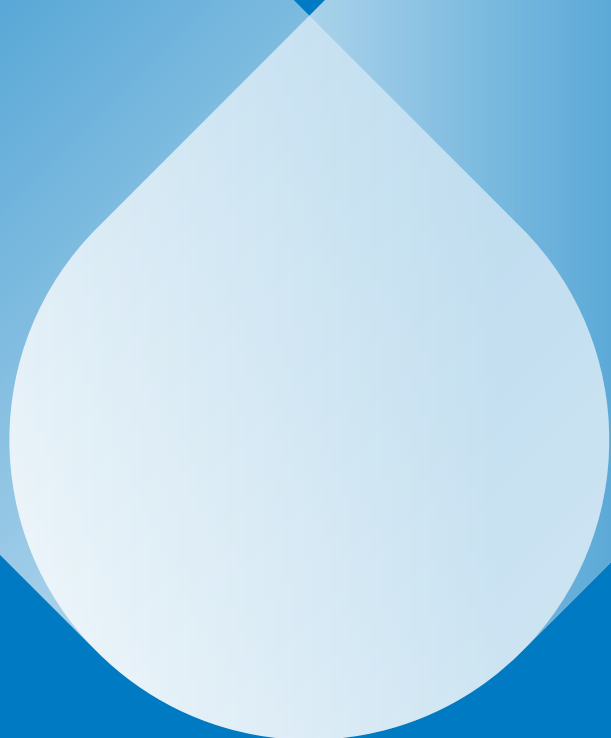


Planning a drinking water installation according to hygienic requirements is an absolute must. Incorrect planning and installation can endanger the quality of drinking water in two ways: stagnation and warming. Legionella, in particular, loves warm (25 – 55 °C) and stagnant drinking water.

Uponor Motion ensures regular water exchange in your installation. Combining our innovative flushing station with our proven loop system significantly reduces the risk of contamination by dangerous pathogens. In addition, Uponor Motion enables the operation of a drinking water facility in accordance with DIN 1988 – 200. Uponor Motion naturally meets the high requirements of DVGW W540.

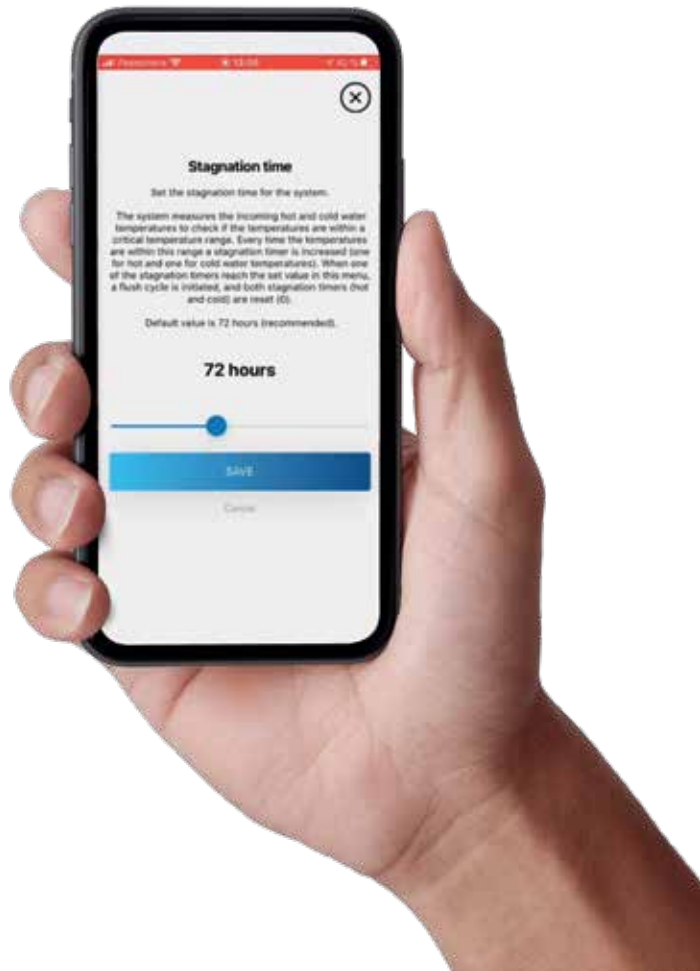
Convenience in motion

Drinking water installations must also meet the highest standards in terms of supply convenience. Uponor Motion helps you to meet these requirements with an integrated comfort function. This ensures the desired water temperature is provided instantly. The preselected settings can be programmed according to a customer's preferences.



Easy to use

- Pre-programmed flushing logic according to VDI/DVGW 6024 standard or individual flushing settings (e.g. interval, time, temperature)
- Detailed flush logs via Uponor Motion app or pre-installed SD card
- Intuitive operation on a smartphone or tablet via WiFi



Invisible installation

- No visually disturbing parts in sanitary room
- No additional planning effort, as a washbasin is part of a sanitary room
- No additional wastewater connection
- Pre-installed universal connections included
- Adapter kits compatible with the leading sanitary wall frame systems on the market

Intelligence in motion

- Innovative drain siphon enabling a turbulent flow of 15l/min at min. 1 bar water pressure
- Intelligent product design and a noise-insulating housing made of EPP help contribute to meet the increased sound insulation requirements according to DIN EN 4109/5, VDI 4100 SSt III, SSt EB II



Suitable for any installation type



Pre-assembled
in washbasin frame



Integrated
into drywall or sanitary walls



Wall mounted
without washbasin frame

Experience Uponor Motion in 3D

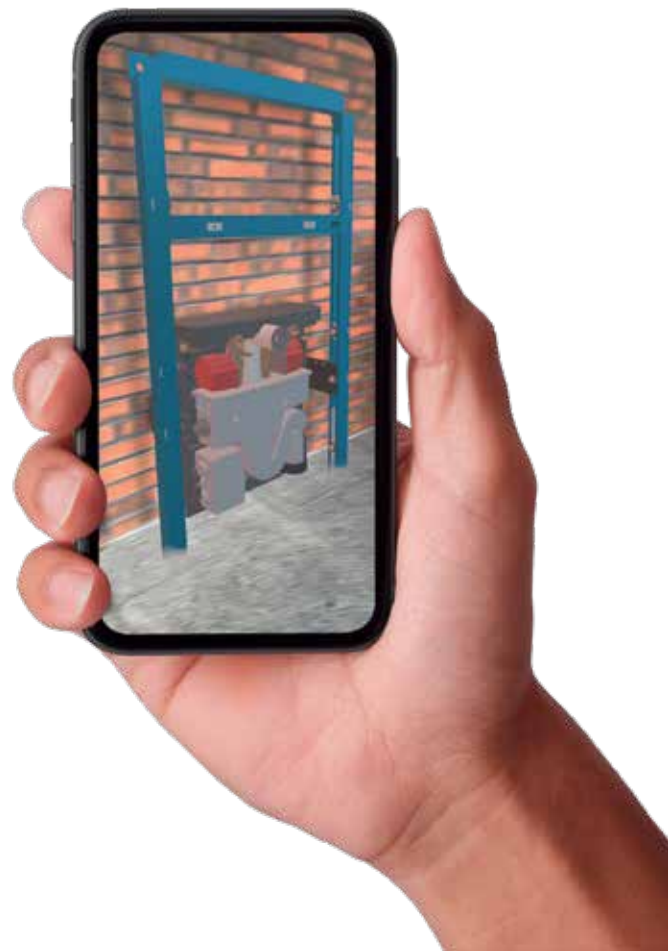
1 Scan the QR code with your **smartphone or tablet**



2 Click on **“Start”** or AR symbol (on the right hand side of the product image)



3 Place the product on any surface, zoom in and out, move it around





Loop installation

- › Uponor Uni Pipe PLUS
- › Uponor S-Press PLUS



Hygiene flushing system
» Uponor Motion

Riser installation
» Uponor MLC

➤ Uponor MLC Multiple layers, multiple benefits



The multi-layer composite pipe system for risers

Longitudinally welded aluminium pipe which not only prevents oxygen from entering, but also compensates for restoring forces and linear expansion caused by changes in temperature. To achieve this, the thickness of the aluminium has been optimally adjusted for the high pressure resistance needed. Both the inside and the outside of the pipe have been equipped with a layer of polyethylene which is resistant to high temperatures (complying with DIN 16833). All the layers are then permanently joined to one another thanks to the use of a bonding agent applied between the layers. Uponor MLC is available in dimensions from 40 – 110 mm.

**100 %
oxygenproof
barrier through
the inner
aluminum layer**

With our 5 layer composite pipe we developed a product with a future, which combines the benefits of both metal and plastic pipes. Product benefits are obtained that cannot be surpassed: The inner aluminium layer provides a 100 % oxygenproof barrier. It compensates for the snap-back forces and the linear expansion caused by temperature changes. The basis of the system is simple, safe and fast pipe installation: simply bend by hand, cut to length, bevel, join together, press – done!

➤ Uponor S-Press Reliability in large dimensions




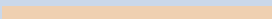
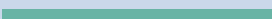
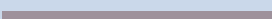
Riser fittings 75mm–110mm

The Uponor S-Press fitting 40–75mm and the RS2 and RS3 fittings, 75–110mm are applicable for all sanitary facilities as well as for heating and cooling, e.g. for house construction and for public and commercial buildings.

Together with the Uponor MLC it has system approvals all over Europe for drinking water incl. hygiene approvals.



Colour code dimension

	40 mm
	50 mm
	63 mm
	75 mm

Hot and Cold water

The permanent operating temperature ranges from 0°C to 70°C at a maximum permanent operating pressure of 10 bar. The short-term malfunction temperature is 95°C for a period of 100 hours in the operating life time. On boosted cold water operating pressure is up to 16 bar.

Heating

The permanent operating temperature ranges up to 80°C at a maximum permanent operating pressure of 10 bar. The short-term malfunction temperature is 100°C for a period of 100 hours in the operating life time.

For fast and reliable riser installation

- Free choice between Uponor S-Press brass 40–50 and PPSU 40–75
- Fast installation with easy bevelling and without calibration
- Compatibility to current pipes and tools
- Free choice between Uponor RS portfolio and S-Press composite portfolio 40–75
- Colour coding
- Test safety function
- Stop ring segments for easy and precise jaw fixation



➤ Uponor RS Many possible connections with just a few system components



Modular press fitting system for distribution lines and risers

The Uponor RS modular system for distribution lines and risers makes press connections simple and safe, with all the pressing work done conveniently at the workbench.

Once on-site, the pre-assembled composite-pipe units are easily inserted into the fittings and locked, ensuring quick, high-quality installation, even in tight or challenging spaces. No more struggling with heavy pressing tools in cramped corners or overhead positions.

With the modular design of Uponor RS, all connections follow the same process, requiring tools only for pressing which is done at the workbench.

The system covers almost every installation situation and also offers a high degree of flexibility in the event of changes on the construction site.

Flexible planning, reliable procurement, simple mounting for large dimensions

- Connection concept consisting of base parts and matching adapter inserts made of brass
- Riser modular fittings RS2 and RS3 from 63mm-110mm have a distinct lock and click mechanism with a range of body connections types
- Higher flexibility and less logistic effort thanks to minimal number of system components
- Optimal availability at low storage space and investment requirements
- Rapid mounting through pressing on the workbench and tool-free connecting on site
- Optional usage of the pressing machines UP 75 or UP 110 (cordless)
- Simple correction possibilities when plan changes occur during the installation phase

Easy colour coding

Uponor RS is the press modular fitting range for distribution lines and risers.



Installation in 4 easy steps

1 Simply insert the deburred composite pipe into the pressing adapter.



2 Press the connection.



3 Insert the pressing adapter into the base part.



4 Slide the lock pin into the opening of the fitting body and click it into place





Flexible realisation of main distributors

Thanks to the modular fitting system and the associated spacing adapters, distributors of different sizes can be realised flexibly and in just a few steps.



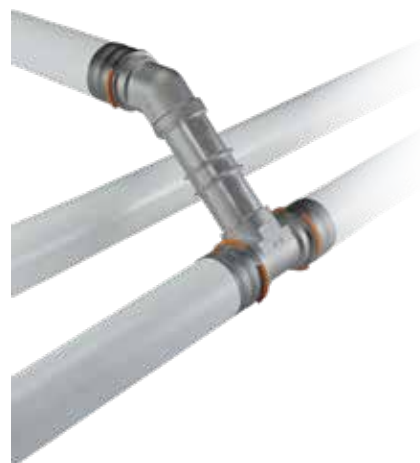
Faster planning with just 40 components

Conventional 63–110 mm installation systems require up to 300 different components. Our system just needs 40 components – a significant facilitation in planning. Despite the low number of components the system covers almost any conceivable task and opens up new room for creative design.



Flexible angles

Particularly in old buildings walls and ceilings are often not really at right angles to each other. The short spacers (5 mm) in combination with two 45° elbows allow almost any desired angle to be realised by rotating the components.



Simple and faster changing of piping levels

Thanks to the space adapters in combination with 45° elbows, level jumps with only minimal height differences are possible.

➤ Uponor PE-Xa system Extremely flexible and easy to connect



Combining experience and competence

Entirely designed to make the installation work as easy as possible, the flexible Uponor PE-Xa system is the ideal solution for installation tasks in the field of potable water and heating installation systems.

Uponor's PE-Xa system features PE-Xa pipes in coils or straight lengths, pipes in conduits, fittings made of PPSU, thread fittings made of brass, manifolds and an extensive range of accessories.

Durable material which is not affected by high flow velocities or low pH-valued water

Flexibility and resistance

- Perfect for modern building designs such as shear-walls
- No corrosion or sediment build-up
- Good resistance to chemical-dissolving agents
- Low pipe roughness meaning less friction and pressure loss
- Shock-absorbing reducing water hammer by 30%
- Durable material which is not affected by high flow velocities or low pH-valued water
- Largely resistant to stress crack formation
- Resists condensation on cold-water lines
- Life expectancy well over 50 years*
- Available in coils for easy transportation and handling or straight lengths in dimensions up to 110 mm, optionally in PN6 or PN10
- Also available as pipe in conduit and insulated version

* Acc. to long-term tests run by Studvik in Sweden and BASF in Germany from 1973 to 2009 at 95°C/12 bar.

➤ Uponor Aqua Pipe Long term durable performance



Uponor Aqua Pipe – Certified quality

Uponor Aqua Pipe is a high-quality solution designed to ensure safe, long-term durability and performance. Its reliability in maintaining tap water quality has been rigorously tested by the Research Institutes of Sweden (RI.SE) using advanced test methods and in accordance with ISO standards. These independent tests have proven the pipe's capability to preserve water purity, ensuring that it meets the highest standards for safety and durability.

The cross-linked polyethylene pipe (PE-Xa) Uponor Aqua, produced with a minimum of 70% cross-linking, in accordance with the DIN 16892/93 and EN standards ISO 15875 is the ideal solution for drinking water installation with flexible pipes. Available in dimensions from 16 to 110 mm, as coils or straight bar with the possibility to choose between PN6 and PN10 pressure rating.

Highest tap water quality and hygiene

- Ideal for drinking water
- Long term performance
- Compatible with Uponor Q&E joint technique



➤ Uponor Radi Pipe Connecting radiators efficiently



Flexibility in heating connections

For the connection of heating and cooling elements such as radiators or water based fan-coils Uponor Radi pipe is the perfect selection. The oxygen barrier fulfills the requirements for oxygen diffusion resistance as per DIN 4726 and the system flexibility allowed an easy and efficient installation both in new building and in renovation. Uponor Radi pipe is complemented by all needed accessories for radiators and cooling elements connection e.g. as tee or manifold installation.

Available in dimensions from 16 to 110 mm, as coils or straight bar with possibility to choose between PN6 and PN10 pressure rating.

One for every method

Uponor flexible plumbing systems can be installed using conventional T-fitting, serial- or manifold installation method. No matter the installation method, with our extensive range of manifolds and other accessories, Uponor always provides you the best solutions to save on installation time and costs.

Efficient installations

- Ideal for heating connections
- Easy and fast installation
- Compatible with Uponor Q&E joint technique

➤ Uponor Combi Pipe Simplified installations with only one pipe



A single pipe for every application

Uponor Combi Pipe offers an ideal solution for optimizing time and costs on construction sites, as it serves a dual purpose—delivering drinking water and connecting heating or cooling systems such as radiators or water-based fan-coils. Thanks to innovative heat treatment during production, the pipe is certified for drinking water applications, while its oxygen barrier meets the stringent requirements for oxygen diffusion resistance in heating and cooling systems.

Made from cross-linked polyethylene (PE-Xa), Uponor Combi Pipe is available in coils or straight lengths, in both uninsulated and insulated versions, and with an optional protective tube. This versatility ensures the perfect fit for any installation requirement.

Simple installations

- Designed for heating and drinking water installations
- Available as coils, bars and pipe-in-pipe
- Compatible with Uponor Q&E joint technique



Uponor U-tap

connections for inwall mixer and cisterns



PEX Clamp

connection WIPEX™ – for dimensions up to 110mm

➤ Uponor PEX Pipe Blue

The world's first bio-based PEX pipes*

* with ISCC certification, based on the mass balance approach



New standard in the transition to renewable raw materials

With PEX Pipes Blue, Uponor sets a new standard in the transition to renewable raw materials. PEX Pipes Blue are the world's first bio-based PEX pipes* on the market. The new pipes feature a reduced carbon footprint of up to 90% compared to fossil-based PEX pipes.

The new PEX Pipes Blue's significantly low carbon footprint is based on Environmental Product Declaration (EPD) calculations according to the standards EN15804+A1, CML/ISO21930. The EPD comprehensively evaluates a product's environmental impact along its entire life cycle.

We offer complete value chain transparency through full ISCC (International Sustainability & Carbon Certification) certification and the supply of renewable raw materials is based on the so-called mass balance approach. This means that for every tonne of ISCC certified renewable raw materials used in production, a corresponding quantity of PEX pipes can be designated as ISCC certified. The use of ISCC certified bio-based material contributes to replacing fossil resources with renewable raw materials.

90 % reduced CO₂ footprint

- Reduced CO₂ footprint of up to 90% compared to fossil-based PEX pipes **
- Same outstanding product quality, features and performance as our conventional PEX pipes
- Full compatibility with current Uponor fittings, accessories and tools
- Complete value chain transparency through full ISCC certification (International Sustainability and Carbon Certification)

Go
➤ Blue



Uponor PEX Pipe Blue

** based on Environmental Product Declaration (EPD) calculations according to the standards EN15804+A1, CML/ISO21930

➤ Uponor Quick & Easy Connecting pipes within seconds



Innovative jointing technology for PE-Xa pipes

The Uponor Q&E fitting is a tried-and-tested concept with over 500 million fittings already sold worldwide. The jointing concept relies on the unique elastic features of Uponor PE-Xa pipe to give a joint that is stronger than the pipe itself.

Uponor Q&E cold-expansion fittings make solid, permanent, manufactured connections without the need for torches, glues, solder, flux or gauges. The unique shape memory of Uponor PE-Xa piping forms a tight seal around the fitting creating a strong reliable connection within seconds!

Uponor Q&E fittings are available in a range of high-performance plastic polyphenylsulfone (PPSU) and threaded brass fittings for pipe dimensions up to 75 mm. Uponor PE-Xa pipe can also be used with Uponor's range of compression fittings.

Reliable connections can be made within seconds, saving time and installation cost

Unique Quick & Easy system

- No solder, torches or messy fluxes and solvents required
- No scale or corrosion build up means clear and clean water
- Flexible piping manifold options for optimised material usage and fewer connections reducing potential leak liability, system and maintenance costs
- All installations feature low pipe noise and water hammer reduction
- Uponor Q&E is a watertight jointing system that gets tighter with time minimising the risk of re-work or maintenance
- Unique fitting design provides 30% higher flow rates throughout the system and reduces pressure drop
- 10 year system warranty
- Plastic material eliminates theft concerns



➤ **Connect in seconds in three simple steps. Fast. Simple. Secure.**

Benefits

- Quick and innovative jointing with minimal effort even in cramped conditions such as niches or shafts
- 100% permanent and leak-proof joint if properly installed
- Q&E evolution ring with stop edge for accurate positioning on pipe
- Internal jointing ensures joint integrity even in case of external pipe damages on site
- No O-rings or other movable parts, reducing risks of leakages
- Visual connection
- No fire or other hazardous risks since no solder, torches, fluxes or solvents required for installation
- Possibility of full plastic system
- No pitting, scaling or corrosion ensuring clear, clean and healthy water

1 Cut the pipe in a straight angle.

2 Expand the pipe end. To ensure a uniform expansion, the expander rotates according to the integrated auto rotate function.

3 Push the expanded pipe end in quickly until it stops on the fitting nipple. Hold until the pipe has been shrunk. Ready!

16 mm

32 mm

≥ 40 mm



➤ Uponor Decibel

Less water noise, lightweight handling



Soil and waste water pipes with excellent sound insulation

Uponor Decibel is a complete soil and waste pipe system with pipes and parts available in dimensions from 50 to 160 mm. Its suitable for new buildings, as well as renovations. Mineral-reinforced polypropylene, a multi-layered structure and a high specific gravity help keep the Decibel system quiet. Decibel is well suited to acoustically demanding buildings.

Uponor decibel pipe system

- Suitable for new buildings and renovations
- Easy to install without special tools
- Available in dimensions:
ø 50, 75, 110 and 160 mm
- Temperature range: 85–100 °C
- Compliant with all requirements within European Standard EN 1451

10 db
The noise of
a falling leaf.
And Uponor
Decibel.

The system is designed for max allowed temperatures 85 °C which can temporarily increase up to 100 °C. Max allowed temperatures are continuous 85 °C, temporarily 100 °C. and is resistant to detergents and sewage. The smooth inside resists grooving and minimises the risk of blockage. The system is dimensioned according to and complies with all requirements within European Standard EN 1451. Each pipe is traceable and all parts are individually tested to guarantee a long, maintenance-free life. Impact on the environment is low, and all plastic components are 100% recyclable.

Areas of application

The key to a quiet soil and waste pipe is unhindered flow. Uponor Decibel not only achieves that, but also features a totally new solution with an efficient noise-suppressing intermediate layer consisting of a high-density mineral.

Certain noises are airborne, i.e. they are generated in the pipe and are carried to the outside air. Uponor Decibel's multilayer construction with a mineral intermediate layer dampens vibrations. Other noises

are structure-borne, i.e. carried from the pipe into the structure of the building via its fastenings, creating a resonant vibration. One way of avoiding that is to use noise-suppressing fastenings.

Uponor Decibel is the most advanced noisesuppressing indoor soil and waste pipe, created after extensive research and development. It has resulted in excellent performance for acoustic damping, function, installation and environmental protection.



Uponor Decibel is equally suitable for use in new builds as well as in refurbishments.

Tried and tested

Acoustically tested – the Decibel system has been tested in accordance with the EN 14366 standard. The standard includes laboratory measurements of the noise generated by the sewer system.

Flow rate [l/s]	Sound level $L_{SC,A}$ [dB (A)]
0,5	<10
1,0	<10
2,0	<10
4,0	14

Measurement results for the Decibel system in accordance with the EN 14366 standard (Fraunhofer Institute). The test differs significantly from practical installation sites and conditions. However, standardised test conditions enable noise-reducing sewer systems to be compared. When the noise level is below 10 dB (A), the result is marked on the test report as <10 dB (A). Noise levels below 10 dB are undetectable in a normal residential environment.

Strong

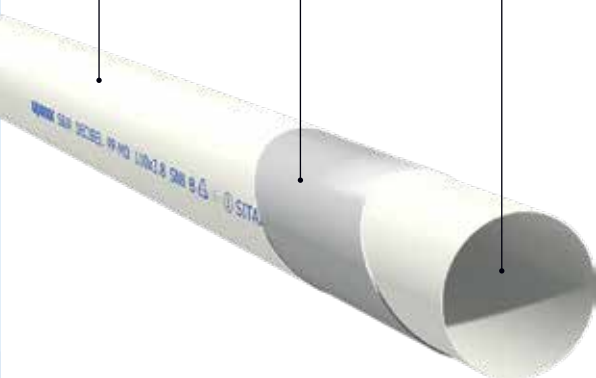
impact-resistant external layer made of PP

Rigid mid-layer

with effective noisereduction made of MD-PP

Smooth

maintenance-free internal surface made of PP, white internal surface facilitates imaging



Uponor Decibel is light and easily workable. Compared with a traditional cast iron sewer system, installation can be up to twice as fast. Pipes can be cut off with a saw or pipe cutter, and sleeve couplings make installation quick and easy, even in tight spaces. No hot work is required for installation, so there is no risk of fire. The Decibel angled ground connector is ready to install, making work faster.

Decibel overview

Our scale compares Uponor Decibel with other sound sources.

140 dB

Rising fighter jet

140 dB

Pain threshold

120 – 130 dB

Pneumatic drill

120 dB

Starting of heavy vehicle 5 – 10 m away

90 – 95 dB

Passing express train 100 m away

80 – 85 dB

Conversation

60 – 65 dB

Wind turbine 350 meters away

40 – 45 dB

Whisper

20 dB

Uponor Decibel
10 dB

0 dB

Uponor, now operating as GF Building Flow Solutions, is a division of GF, a leading global provider of sustainable and innovative solutions, making water flow in buildings.

The division, stemming from the 2023 acquisition of Uponor by GF, provides safe solutions for hot and cold water supply and control, noise-reducing wastewater systems, as well as energy-efficient heating and cooling.

Its focus is to enable its customers in the residential and commercial space to be more productive and sustainable, while ensuring comfort, health and efficiency. GF Building Flow Solutions has sales companies in 30 countries and production sites in 13 locations across Europe and the Americas.

uponor

The Pavilion, Blackmoor Lane,
Watford WD18 8GA, United Kingdom
T +44 (0)1923 381212
E customersupport.uk@uponor.com
www.uponor.com
www.georgfischer.com

+GF+