

MLC Press-Fit

uponor



**Hello MLC
Goodbye copper.**

**The multi-layered plumbing
system with multiple benefits**

For more information visit www.uponor.com

MLC Press-Fit

The multi-layered plumbing system with multiple benefits

MLC Press-Fit is the most widely used alternative to copper piping in the UK market place because it's faster, cleaner, more cost-effective and more secure. Consequently, there's no better way to fast-track efficiently executed, watertight plumbing installations.

MLC is just like copper...only better. It's the definitive multi-layered plumbing system with multiple benefits and here are just a few of them:



Designed to deliver fast and clean installations

Easy to bend. Just cut to length and press to fit a guaranteed, secure connection. 'Head to head' speed tests have proved that it's faster...and easier.

Designed for fewer connections

The inherent stability of the pipe and the low linear expansion, only a few fixing points are necessary. This delivers a highly practical advantage for a safe and fast installation.

Designed to last

It's corrosion and incrustation-free. The five-layer composite pipe has a diffusion-tight aluminium core layer that prevents the ingress of oxygen.

Designed for inherent flexibility

Perfect for any application where copper pipes might be used. Used worldwide for commercial and domestic applications. Available in the widest range of sizes 16 - 110mm.

Designed to make 'your life easier'

It's not only simple, easy and fast to use... MLC Press-Fit also offers the full support and extensive back-up that you'd expect from a major brand and market leader. Training, comprehensive instructions and technical advice.



The MLC Press-Fit pipe

5 layers - built for the future

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% oxygen proof 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!

The Uponor MLC Press-Fit pipe consists of a longitudinal safety overlap welded aluminium pipe, to which an inner and outer layer of high temperature resistant polyethylene is applied (in accordance with DIN 16833). All layers are permanently bounded together by means of an intermediate adhesive layer. A special welding technique guarantees a maximum of safety. The thickness of the aluminium selected for the Uponor MLC Press-Fit pipe is exactly adapted to the compressive strength requirements as well as the bending capability confident that you're installing tried and tested, certified quality. Our system technology is safe and long lasting, certified by numerous tests and licenses.

The best installation: The Uponor MLC Press-Fit pipe for tap water installation and radiator connection can also be ordered pre-insulated (up to 25mm). You have an assortment available in sizes from 16-110 mm.

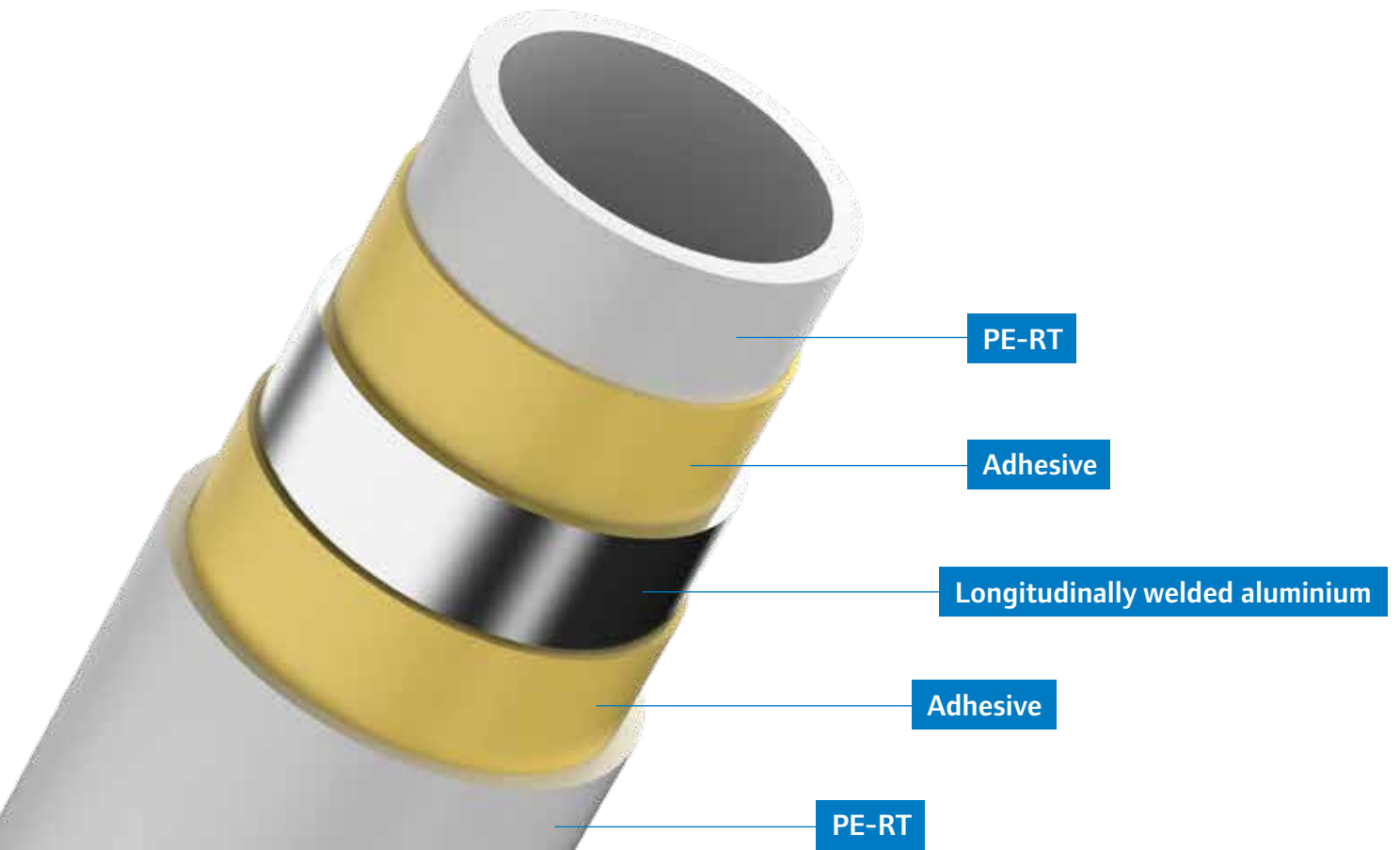
The pre-insulated pipes save installation time because the time intensive insulation of the mounted pipes and the resulting gluing of joints are eliminated.

Low linear expansion

Low weight

Easy handling

WRAS
APPROVED
PRODUCT



PE-RT

Adhesive

Longitudinally welded aluminium

Adhesive

PE-RT

High inherent stability and bend flexibility

Available in dimensions 16-110mm

Corrosion resistance

Excellent hydrostatic stress performance

Absolutely oxygen diffusion tight multi-layer composite pipe

Make the right connections

All the fittings you'll ever need

We can supply you with the right fitting-even for complex applications. Different fitting concepts, same high levels of flexibility and quality. What else would you expect from the market leader?

MLC Press-Fit

Our Standard Fitting

Our patented press system means that fittings can be fitted incredibly quickly. [Wave goodbye to welding and soldering... say hello to Uponor.](#)

- Firmly fixed press sleeve, permanently connected with the fitting body protects against mechanical damage to the O-ring.
- Press sleeves with inspection windows, the penetration depth of the pipe into the fitting can be checked before pressing.
- Coloured stop rings that break off during pressing (16 to 32mm).
- After installation the form-stable press sleeve allows the connection to absorb bending forces without developing leaks. This allows a pipe that has already been installed to be realigned after installation (up until the pressure test).



Colour coded diameters

16

20

25

32

40

50

MLC Composite

The economy version of our Standard Fitting

During installation the MLC Press-Fit Pipe it is pushed between the supporting sleeve and stainless steel press sleeve and a force-closed connection is made with the MLC Composite fitting. Pressed into the inner plastic layer of the pipe, the special profile of the PPSU insert produces a reliable connection. A high-temperature and age resistant O-ring fitted into a groove provides sealing between the insert part and inner wall of the pipe.

After installation the form-stable press sleeve allows the connection to absorb bending forces without developing leaks. This allows a pipe that has already been installed to be realigned after installation (up until the pressure test).



Diameters

16

20

25

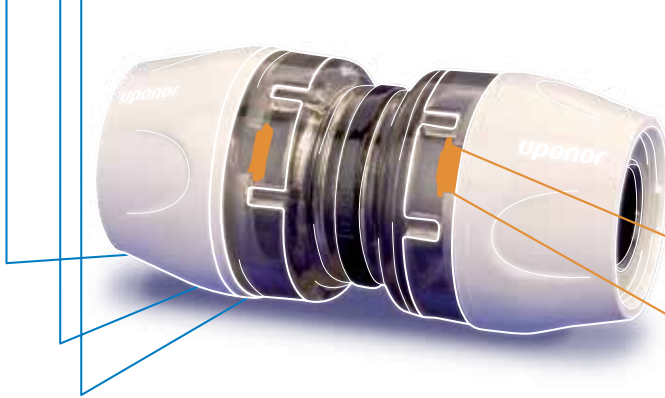
32

40

50

MLC Click-Fit

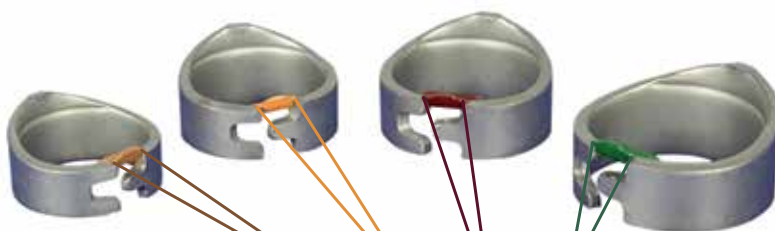
RTM™ Technology



Uponor's RTM™ Technology:

Ring Tension Memory with the Tool-Inside concept, ideal for refurbishment and new buildings, allowing safe, quick and professional joints, thanks to the Joint Indicator and no tool dependence. RTM™ Technology works perfectly with Uponor's MLC Press-Fit pipes.

It is easy to install due to its revolutionary RTM™ Technology, a technology that has allowed Uponor to incorporate the Tool-Inside: The Ring with Tension Memory. This revolutionary RTM™ Technology creates constant pressure ensuring perfect and long lasting joints.



Ring Tension Memory Technology

TOOL & INSIDE

Colour coded diameters

16

20

25

32

Uponor's Modular System

Our innovative modular Riser system follows a modular design principle. With only 39 components, you can perform any task that required hundred of parts up to now. You can easily plan standard projects as well as customised solutions for particularly tricky challenges. Even in case of unforeseen problems on the construction site you can finalise your work as the system is highly flexible because of the modular idea. This puts an end to annoying delays caused by long delivery times.

Your planning and construction work will be easier, faster and more flexible. Benefit from the only multi layer composite pipe system that provides a complete solution for large-scale plumbing installations.

- **Modular MLC Riser system with only 39 items**
- **Greater flexibility**
- **Easier planning and quicker processing**
- **Adjustment until final installation possible**
- **More efficient stock management**



Colour coded diameters

63

75

90

110



Uponor's Tools & Accessories

All the tools you'll ever need

Our system includes pressing tools and jaws, cutting and bending tools as well as accessories for radiator and tap water connections.

Using these items ensures a full system warranty because we have tested the entire range of pipes, fittings and pressing jaws as a complete, integrated system. Quite simply, we offer one tried and tested system that will meet all your needs.



**GREAT
TOOL DEALS**

Uponor

MLC Press-Fit

THERE'S ALWAYS
FANTASTIC DEALS
TO BE HAD ON OUR
MLC PRESS-FIT TOOLS.

Contact your local plumbers
merchant to find out more.



MLC PRESS-FIT PIPES

MLC white, supplied in straight lengths



100% diffusion-resistant multi-layer composite (MLC) pipe, five-layer (PE-RT – adhesive agent – continuously safety welded aluminium – adhesive agent – PE-RT), for general plumbing and radiator-connection applications, and also for distribution mains and risers. Manufactured to ISO 21003: 2008 for hot and cold water and heating applications with full WRAS approval.

Description	Code	Qty
3m lengths		
16x2mm	1013436	75m
20x2.25mm	1013441	51m
25x2.5mm	1013443	30m
32x3mm	1013445	18m
5m lengths		
16x2mm	1013432	125m
20x2.25mm	1013438	85m
25x2.5mm	1013442	50m
32x3mm	1013444	30m
40x4mm	1013446	20m
50x4.5mm	1013449	20m
63x6mm	1013451	15m
75x7.5mm	1013453	5m
90x8.5mm	1013455	5m
110x10mm	1013457	5m

MLC conduit



Made of high-density polyethylene. Available in red, blue or black. Supplied in coils. Details and prices of a wide range of other sizes of conduit are available on request. First number shown in description refers to I.D. of the protective tube. The second is the size of MLC suitable. N.B. Does not include MLC.

Description	Code	Qty
16 Black (12mm)	1012857	50m
20 Red (16mm)	1012858	50m
20 Blue (16mm)	1012859	50m
20 Black (16mm)	1012860	50m
23 Red (20mm)	1012862	50m
23 Blue (20mm)	1012863	50m
23 Black (20mm)	1012864	50m
29 Red (25mm)	1012866	50m
29 Blue (25mm)	1012867	50m
29 Black (25mm)	1012869	50m
36 Black (32mm)	1012872	25m

MLC white, supplied in coils



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Description	uPoints	Code	Qty
12x1.6mm		1013575	100m
16x2mm	250	1013463	50m
16x2mm	350	1013377	75m
16x2mm	500	1013378	100m
16x2mm	500	1013559	120m
16x2mm	900	1013371	200m
16x2mm	2500	1013380	500m
20x2.25mm	700	1013388	100m
20x2.25mm	1500	1013392	200m
25x2.5mm	800	1013398	50m
25x2.5mm	1500	1013400	100m
32x3mm	1000	1013401	50m

MLC-in-Pipe



MLC in corrugated protective tube made of high-density polyethylene. Supplied in coils. Available in red and blue.

Description	uPoints	Code	Qty
16x2mm - Blue	500	1013675	75m
20x2.25mm - Blue	800	1013677	75m
16x2mm - Red	500	1013679	75m
20x2.25mm - Red	800	1013681	75m

MLC PRESS-FIT PIPES

MLC Tubolit S 9mm



MLC encased in 9mm insulation. Supplied in coils. Round-extruded pipe insulation made of polyethylene foam with closed-cell material structure. WLG 040.

- Fire-resistance class B2, conforming to DIN 4102.
- Insulation thickness 9mm, for cold-water conduits conforming to DIN 1988 (part2), and heating system conduits conforming to EnEV.
- Additional continuous impact sound insulation required.

Description	uPoints	Code	Qty
16x2mm	700	1013625	75m
20x2.25mm	900	1013626	75m
25x2.5mm	1050	1013627	50m

MLC Tubolit S-50 13mm



MLC encased in 13mm insulation. Supplied in coils. Concentrically-extruded pipe insulation made of polyethylene foam with closed-cell material structure.

- Fire-resistance class B2, conforming to DIN 4102
- Insulation thickness 13mm, for cold-water conduits conforming to DIN 1988 (part 2), and heating system conduits conforming to 50% insulation requirement.
- Additional continuous impact sound insulation required.

Description	uPoints	Code	Qty
16x2mm	800	1013628	75m
20x2.25mm	1000	1013629	75m
25x2.5mm	1100	1013630	50m

MLC Click-Fit

RTM™ Technology



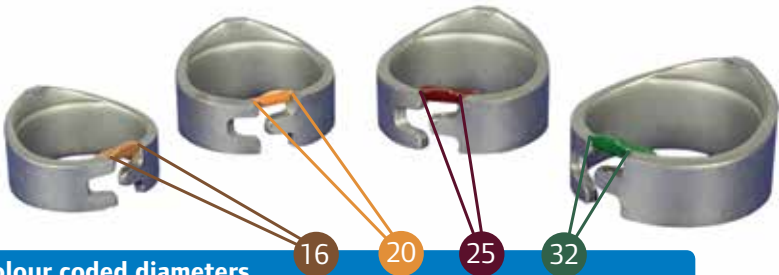
Uponor's RTM™ Technology:

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It is easy to install due to its revolutionary RTM™ Technology, a technology that has allowed Uponor to incorporate the Tool-Inside: The Ring with Tension Memory. This revolutionary RTM™ Technology creates constant pressure ensuring perfect and long lasting joints.



Ring Tension Memory Technology



Colour coded diameters



MLC CLICK-FIT FITTINGS

RTM Coupling



Description	Code	Qty
16mm PPSU	1048542	10
20mm PPSU	1048543	10
25mm PPSU	1048544	5
32mm Brass	1048572	5

RTM Male Elbow (Brass)



Description	Code	Qty
16mmx½" MT	1048599	10
20mmx½" MT	1048600	10
20mmx¾" MT	1048601	10
20mmx¾" MT	1048602	5

RTM Reducer



Description	Code	Qty
20mmx16mm PPSU	1048545	10
25mmx20mm PPSU	1048546	5
25mmx16mm Brass	1048573	5
32mmx25mm Brass	1048574	5

RTM Wall Plate Elbow



Description	Code	Qty
16mmx½" FT PPSU	1048564	10
20mmx½" FT PPSU	1048565	5
20mmx¾" FT Brass	1048598	5

RTM Elbow



Description	Code	Qty
16mm PPSU	1048547	10
20mm PPSU	1048548	10
25mm PPSU	1048549	5
32mm Brass	1048575	5

RTM Equal Tee



Description	Code	Qty
16mm PPSU	1048550	10
20mm PPSU	1048551	10
25mm PPSU	1048552	5
32mm Brass	1048576	5

RTM Female Elbow



Description	Code	Qty
16mmx½" FT (PPSU)	1048561	10
16mmx½" FT (Brass)	1048590	10
20mmx½" FT (PPSU)	1048562	10
20mmx½" FT (Brass)	1048591	10
20mmx¾" FT (Brass)	1048592	10
25mmx¾" FT (PPSU)	1048563	5
25mmx¾" FT (Brass)	1048593	5
25mmx1" FT (Brass)	1048594	5
32mmx1" FT (Brass)	1048595	5

RTM Reduced Tee



Description	Code	Qty
20mmx16mmx20mm PPSU	1048553	10
20mmx16mmx16mm PPSU	1048554	10
25mmx20mmx16mm PPSU	1048555	10
25mmx16mmx25mm Brass	1048577	5
25mmx20mmx20mm PPSU	1048557	5
32mmx20mmx25mm PPSU	1048556	5
32mmx25mmx25mm Brass	1048578	5
32mmx25mmx32mm Brass	1048579	5
32mmx20mmx32mm Brass	1048580	5

MLC CLICK-FIT FITTINGS

RTM Female Tee (Brass)



Description	Code	Qty
16x½" FTx16mm	1048587	10
20x½" FTx20mm	1048588	10
20x¾" FTx20mm	1048589	10

RTM Female Adapter



Description	Code	Qty
16x½" FT (PPSU)	1048558	10
16x½" FT (Brass)	1048581	10
20x½" FT (PPSU)	1048559	10
20x½" FT (Brass)	1048582	10
20x¾" FT (Brass)	1048583	10
25x½" FT (PPSU)	1048560	5
25x¾" FT (Brass)	1048584	5
25x1" FT (Brass)	1048585	5
32x1" FT (Brass)	1048586	5

RTM Flexible Tap Connector (300mm)



Description	Code	Qty
16x½" FT	1057364	10
20x¾" FT	1057365	10

RTM Male Adapter



Description	Code	Qty
16x½" MT (PPSU)	1048539	10
16x½" MT (Brass)	1048566	10
20x½" MT (PPSU)	1048540	10
20x½" MT (Brass)	1048567	10
20x¾" MT (Brass)	1048568	10
25x¾" MT (PPSU)	1048541	5
25x¾" MT (Brass)	1048569	5
25x1" MT (Brass)	1048570	5
32x1" MT (Brass)	1048571	5

RTM Copper Adapter



Description	Code	Qty
16/15mm	1048603	10
25/22	1057377	5
32/28	1057378	5

RTM Radiator Connection Elbow



Radiator Connection elbow with 15mm plated copper spigot.

Description	Code	Qty
16/200mm	1057379	1

RTM Swivel Nut Union



Description	Code	Qty
16x½" FT	1057375	10
20x¾" FT	1057376	10

RTM Calibrator Tool



Description	Code	Qty
16/20/25mm	1048606	1
32mm	1048607	1

MLC COMPOSITE - OUR ECONOMY FITTINGS

Composite coupling/reducer



Made of PPSU, with press sleeve.

Description	Code	Qty
16x16mm	1022736	10
20x16mm	1022740	10
20x20mm	1022737	10
25x16mm	1022741	5
25x20mm	1022742	5
25x25mm	1022738	5
32x25mm	1022743	5
32x32mm	1022739	5
40x40mm	1046401	5
50x50mm	1046402	3
40x25mm	1046403	5
40x32mm	1046404	5
50x32mm	1046405	3
50x40mm	1046406	3

Composite elbow 90°



Made of PPSU, with press sleeve.

Description	Code	Qty
16x16mm	1022714	10
20x20mm	1022715	10
25x25mm	1022716	5
32x32mm	1022717	5
40x40mm	1046386	5
50x50mm	1046387	3

Composite elbow 45°



Made of PPSU, with press sleeve.

Description	Code	Qty
40x40mm	1046388	5
50x50mm	1046389	3

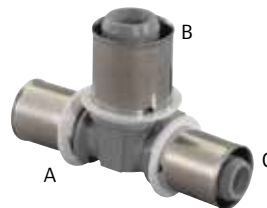
Composite tee



Made of PPSU, with press sleeve.

Description	Code	Qty
16x16x16mm	1022718	10
20x20x20mm	1022719	10
25x25x25mm	1022720	5
32x32x32mm	1022721	5
40x40x40mm	1046390	5
50x50x50mm	1046391	3

Composite tee with reducer



Made of PPSU, with press sleeve.

Description	Code	Qty
A B C		
16x20x16mm	1022722	10
20x16x16mm	1022723	10
20x16x20mm	1022724	10
20x20x16mm	1022725	10
20x25x20mm	1022726	10
25x16x16mm	1022727	5
25x16x20mm	1022728	5
25x16x25mm	1022729	5
25x20x20mm	1022730	5
25x20x25mm	1022731	5
32x16x32mm	1022732	5
32x20x32mm	1022733	5
32x25x25mm	1022734	5
32x25x32mm	1022735	5
40x20x40mm	1046392	5
40x25x32mm	1046393	5
40x25x40mm	1046394	5
40x32x32mm	1046395	5
40x32x40mm	1046396	5
50x25x40mm	1046397	3
50x25x50mm	1046398	3
50x32x50mm	1046399	3

MLC PRESS-FIT - OUR STANDARD FITTINGS

Press connection with male thread



Made of plated brass, with press sleeve. With BSP male-threaded adapter for screw connections.

Description	Code	Qty
16x1/2" MT	1014525	10
16x3/4" MT	1014534	10
20x1/2" MT	1014561	10
20x3/4" MT	1014564	10
20x1" MT	1014567	10
25x3/4" MT	1014589	5
25x1" MT	1014592	5
32x1" MT	1014610	5
32x1 1/4" MT	1014613	5
40x1 1/4" MT	1046901	5
40x1 1/2" MT	1046902	5
50x1 1/2" MT	1046905	3
50x2" MT	1046906	3

Press connection with female thread



Made of plated brass, with press sleeve. With BSP female-threaded adapter for screw connections.

Description	Code	Qty
16x1/2" FT	1014536	10
20x1/2" FT	1014574	10
20x3/4" FT	1014577	10
20x1" FT	1014580	10
25x3/4" FT	1014599	5
25x1" FT	1014602	5
32x1" FT	1014618	5
32x1 1/4" FT	1014621	5
40x1 1/4" FT	1046903	5
40x1 1/2" FT	1046904	5
50x1 1/2" FT	1046907	3

Press connection with female thread (swivel nut)



Made of plated brass, with press sleeve and flat sealing washer. Detachable BSP screw fitting for surface-mounted connection of valve assemblies, filters and shutoff taps.

Description	Code	Qty
16x1/2" FT	1015270	10
16x3/4" FT	1015274	10
20x1/2" FT	1015283	10
20x3/4" FT	1015286	10
25x1" FT	1015297	5
32x1 1/4" FT	1015301	5
40x1 1/2" FT	1046937	5
50x1 3/4" FT	1046938	3
50x2" FT	1046939	3

Press connection Union NEW



Made of plated brass, with flat faced washer seal. Demountable fixing point fitting for ancillary products.

Description	Code	Qty
25x25	1059405	8
32x32	1059406	5
40x40	1059407	4
50x50	1059408	4

Press elbow 90° with male thread



Made of plated brass, with fixed press sleeve. With BSP male-threaded adapter for screw connections.

Description	Code	Qty
16x1/2" MT	1014686	10
20x1/2" MT	1014729	10
20x3/4" MT	1014732	10
25x3/4" MT	1014751	5
25x1" MT	1014755	5
32x1" MT	1014770	5
40x1 1/4" MT	1046909	5

MLC PRESS-FIT - OUR STANDARD FITTINGS

Press elbow 90° with female thread



Made of plated brass, with fixed press sleeve. With BSP female-threaded adapter for screw connections.

Description	Code	Qty
16x1/2" FT	1014692	10
20x1/2" FT	1014736	10
20x3/4" FT	1014739	10
25x3/4" FT	1014757	5
25x1" FT	1014761	5
32x1" FT	1014774	5
40x1 1/2" FT	1046910	5
50x1 1/2" FT	1046912	3

Press elbow 90°



Made of plated brass, with press sleeve.

Description	Code	Qty
12x12mm	1014648	10
16x16mm	1014679	10
20x20mm	1014724	10
25x25mm	1014746	5
32x32mm	1014765	5
40x40mm	1046908	5
50x50mm	1046911	3

Press tee



Made of plated brass, with press sleeve.

Description	Code	Qty
12x12x12mm	1014871	10
16x16x16mm	1014918	10
20x20x20mm	1014976	10
25x25x25mm	1015028	5
32x32x32mm	1015073	5
40x40x40mm	1046921	5
50x50x50mm	1046928	3

Press coupling/reducer



Made of plated brass, with press sleeve.

Description	Code	Qty
12x12mm	1015152	10
16x12mm	1015159	10
16x16mm	1015164	10
20x16mm	1015179	10
20x20mm	1015187	10
25x16mm	1015194	5
25x20mm	1015202	5
25x25mm	1015205	5
32x20mm	1015215	5
32x25mm	1015217	5
32x32mm	1015219	5
40x25mm	1046930	5
40x32mm	1046931	5
40x40mm	1046932	5
50x32mm	1046933	3
50x40mm	1046934	3
50x50mm	1046935	3

Press elbow 45°



Made of plated brass, with press sleeve.

Description	Code	Qty
25x25mm	1014812	5
32x32mm	1014825	5
40x40mm	1046913	5
50x50mm	1046914	3

Repair coupling

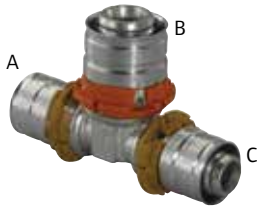


Repair and compensation coupling, made of plated brass, with elongated press sleeve.

Description	Code	Qty
25x25mm	1015212	5
32x32mm	1015226	5
40x40mm	1015239	5

MLC PRESS-FIT - OUR STANDARD FITTINGS

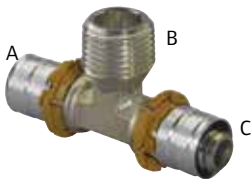
Press tee with reducer



Made of plated brass, with press sleeve.

Description	Code	Qty
A B C		
16x12x12mm	1014909	10
16x12x16mm	1014910	10
16x20x16mm	1014923	10
20x16x16mm	1014957	10
20x16x20mm	1014961	10
20x20x16mm	1014970	10
20x25x16mm	1014981	10
20x25x20mm	1014983	10
25x12x25mm	1014994	10
25x16x16mm	1014996	5
25x16x20mm	1015000	5
25x16x25mm	1015002	5
25x20x16mm	1015015	5
25x20x20mm	1015017	5
25x20x25mm	1015021	5
25x32x25mm	1015033	5
32x16x32mm	1015053	5
32x20x32mm	1015060	5
32x25x25mm	1015064	5
32x25x32mm	1015068	5
32x50x32mm	1046915	5
40x20x40mm	1046916	5
40x25x32mm	1046917	5
40x25x40mm	1046918	5
40x32x32mm	1046919	5
40x32x40mm	1046920	5
50x25x40mm	1046924	3
50x25x50mm	1046925	3
50x32x50mm	1046926	3
50x40x50mm	1046927	3

Press tee with male thread



Made of plated brass, with press sleeve. Central BSP male-threaded adapter for screw connections.

Description	Code	Qty
A B C		
16x $\frac{1}{2}$ " MTx16mm	1014927	10
25x $\frac{3}{4}$ " MTx25mm	1015038	5
32x $\frac{3}{4}$ " MTx32mm	1015082	5

Press tee with female thread



Made of plated brass, with press sleeve. Central BSP female-threaded adapter for screw connections.

Description	Code	Qty
A B C		
16x $\frac{1}{2}$ " FTx16mm	1014931	10
20x $\frac{1}{2}$ " FTx20mm	1014987	10
20x $\frac{3}{4}$ " FTx20mm	1014991	10
25x $\frac{1}{2}$ " FTx25mm	1015044	5
25x $\frac{3}{4}$ " FTx25mm	1015048	5
32x $\frac{1}{2}$ " FTx32mm	1015088	5
32x $\frac{3}{4}$ " FTx32mm	1015091	5
40x $\frac{3}{4}$ " FTx40mm	1046923	5
50x1" FTx50mm	1046929	3

Press Stop End



Description	Code	Qty
16mm	1007078	10
20mm	1007079	10
25mm	1007080	5
32mm	1007081	5

Pressure Test Plug



Reusable plug with $\frac{1}{2}$ " FT designed for pressure-testing of Uponor MLC installations.

Description	Code	Qty
12mm	1013752	10
16mm	1013756	10
20mm	1013760	10
25mm	1013762	10
32mm	1013764	5
40mm	1013765	2

Uponor's Modular System

Uponor's MLC Modular Fittings Range is fast becoming the system of choice on many world-class projects. With just a small range of easy to install fittings, hundreds of connection possibilities can be created.

The distinctive "click and lock" mechanism removes the need for overhead pressing allowing faster install times.



SELECT THE BODY SIZE

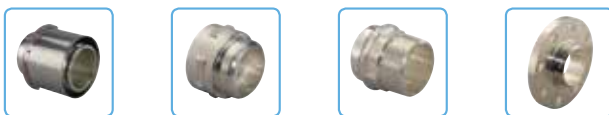
'RS2' (up to 75mm) OR 'RS3' (for 90mm - 110mm)

SELECT THE BODY CONNECTION TYPE



Tee 45° Elbow 90° Elbow Coupler Reducer

CHOOSE ADAPTERS TO SUIT CONNECTION



Adapter Female Thread Male Thread Flange

Your benefits:

- Components with hundreds of fitting variations possible.
- Greater flexibility and lower logistics costs thanks to minimal number of system components
- Optimum availability with less storage space and lower investment costs
- Quick to install and can be pressed at the workbench

Uponor RS Press Adapter MLC



Made of tin plated brass with stainless steel sleeve. For connection of MLC to RS2/RS3 Bodies.

Note: Pressing tool UP75 must be used for pressing all Modular Press Adapters.

Description	Code	Qty
RS 2-16 NEW	1059397	1
RS 2-20 NEW	1059396	1
RS 2-25	1029121	1
RS 2-32	1029122	1
RS 2-40	1046940	1
RS 2-50	1046941	1
RS 2-63	1029125	1
RS 2-75	1029126	1
RS 3-90	1029127	1
RS 3-110	1029128	1

Uponor RS Elbow 90°



Made of tin plated brass. Includes 2 lock pins.

Description	Code	Qty
RS 2	1029138	1
RS 3	1029139	1

UPONOR Modular System

Uponor RS Elbow 45°



Made of tin plated brass. Includes 2 lock pins.

Description	Code	Qty
RS 2	1029140	1
RS 3	1029141	1

Uponor RS Coupling



Made of tin plated brass. Includes 2 lock pins.

Description	Code	Qty
RS 2	1029144	1
RS 3	1029145	1

Uponor RS Reducer



Made of tin plated brass. Includes 1 lock pin.

Description	Code	Qty
RS 3/RS2	1029146	1

Uponor RS Flange



Made of tin plated brass. For connection to RS2/RS3 Bodies.

Description	Bolt Circle	Bolt Holes	Code	Qty
RS 2 DN 65 (PN 6)	130	4	1059398	1 NEW
RS 2 DN 65 (PN 16)	145	4	1059399	1 NEW
RS 3 DN 80 (PN 6)	150	4	1059400	1 NEW
RS 3 DN 80 (PN 16)	160	8	1029129	1
RS 3 DN 100 (PN 6)	170	4	1059401	1 NEW
RS 3 DN 100 (PN 16)	180	8	1029130	1

Uponor RS Male Adapter



Made of tin plated brass. For connection to RS2/RS3 Bodies.

Description	Code	Qty
RS 2 MT 1 ½" NEW	1059402	1
RS 2 MT 2"	1029131	1
RS 2 MT 2 ½"	1029132	1
RS 3 MT 3"	1029133	1

Uponor RS Female Adapter



Made of tin plated brass. For connection to RS2/RS3 Bodies.

Description	Code	Qty
RS 2 FT ½" NEW	1059403	1
RS 3 FT ½" NEW	1059404	1
RS 2 FT 1"	1029134	1
RS 2 FT 2"	1029135	1
RS 2 FT 2 ½"	1029136	1
RS 3 FT 3"	1029137	1

Uponor RS Tee



Made of tin plated brass. Includes 3 lock pins.

Description	Code	Qty
RS 2	1029142	1
RS 3	1029143	1

Uponor RS Spacer



Made of tin plated brass. For connection to RS2/RS3 Bodies.

Description	Code	Qty
RS 2 170mm	1046477	1
RS 3 250mm	1046478	1
RS 2 5mm	1046750	1
RS 3 5mm	1046751	1

Manifolds, Adapters & Accessories

Uponor NV Manifold



The Uponor NV Manifold includes chrome plated flow and return headers pre-mounted on nickel plated brackets with fill & drain points. Primary connections are 1" BSP and outlet on nickel plated connections are 3/4" Eurocone. Designed for use in Radiator systems.

Note: Eurocone compression adapters are supplied separately.

Description	Code	Qty
1 port extension set	1002189	1
2 port	1002190	1
3 port	1002191	1
4 port	1002192	1
5 port	1002193	1
6 port	1002194	1
7 port	1002195	1
8 port	1002196	1

LS Manifold



The Uponor LS Manifold includes lock shield valves on the flow manifold for balancing the system. The manifold includes chrome plated flow and return headers pre-mounted on nickel plated brackets with fill & drain points. Primary connections are 1" BSP and outlet connections are 3/4" Eurocone. Designed for use in Radiator systems.

Note: Thermal actuators & Eurocone compression adapters are supplied separately.

Description	Code	Qty
1 port extension set	1002181	1
2 port	1002182	1
3 port	1002183	1
4 port	1002184	1
5 port	1002185	1
6 port	1002186	1
7 port	1002187	1
8 port	1002188	1
9 port	1048274	1
10 port	1048275	1
11 port	1048276	1
12 port	1048277	1

Manifold L



Supplied as a single manifold. Made of plated brass, 3/4" or 1" MT x FT connections with 1/2" or 3/4" MT outlets. Valves allow each circuit to be isolated. Delivered with loop labelling discs. Order adapters separately for connection to Uponor pipe (MLC/PEX). Manifolds can be joined to make the required number of ports.

Description	Code	Qty
2 port 3/4"	1002280	1
3 port 3/4"	1002281	1
4 port 3/4"	1002282	1
2 port 1"	1002284	1
3 port 1"	1002285	1
4 port 1"	1002286	1

Manifold P



Supplied as a single manifold. Made of plated brass, with 1" MT x 1" FT with 1/2" MT outlets. Order adapters separately for connection to Uponor pipe (MLC/PEX). Manifolds can be joined to make the required number of ports.

Description	Code	Qty
2 port 1"	1014107	1
3 port 1"	1014111	1
4 port 1"	1014109	1

Manifold L bracket



Supplied as a single bracket. Holds manifolds in place at a vertical distance of 220mm apart.

Description	Code	Qty
3/4"/1"	1002277	1

Manifolds, Adapters & Accessories

Manifold L ball valve (¾")



Supplied as a single valve. Made of plated brass. Used to isolate the whole manifold assembly.

Description	Code	Qty
¾" MT x ¾" FT	1002279	1

Manifold L end cap (with sealing washer)



Made of plated brass.

Description	Code	Qty
¾" FT	1002275	1

Manifold L end plug



Made of plated brass, with sealing O-Ring.

Description	Code	Qty
¾" MT	1002273	20
1" MT	1002274	20

Manifold P bracket



Supplied as a single bracket. Made of galvanized steel, for the sound absorbing installation of Manifold P.

Description	Code	Qty
1"	1014117	1

Manifold P cap (with sealing washer)



Made of plated brass, for use with Manifold P.

Description	Code	Qty
½" FT	1014120	20
1" FT	1014121	20

Manifold Connection Fitting with Thermometer and Airvent



For connection to LS/TM Manifold. Can be fitted to left or right hand side of manifold.

Description	Code	Qty
AAV & Thermometer Gauge	1046886	2

Automatic Manifold By-Pass



Preset to 0.25 bar. For connection between flow and return manifold (TM/LS). Complete with isolation valve for filling purposes.

Description	Code	Qty
Manifold by-pass between flow and return	1048278	2

Manifolds, Adapters & Accessories

Eurocone compression adapters (MLC)



Made of plated brass $\frac{3}{4}$ " FT Eurocone thread for connection to $\frac{3}{4}$ " MT manifolds outlets NV/LS/TM/L.

Description	Code	Qty
12x $\frac{3}{4}$ " FT	1013809	1
16x $\frac{3}{4}$ " FT	1058090	1
20x $\frac{3}{4}$ " FT	1058092	1
25x $\frac{3}{4}$ " FT	1058093	1

BSP compression adapters (MLC)



Made of plated brass. For use with Manifold L/P.

Description	Code	Qty
12x $\frac{1}{2}$ " FT	1013831	1
16x $\frac{1}{2}$ " FT	1058086	1
20x $\frac{1}{2}$ " FT	1058088	1

MLC Radiator & Tapwater Terminations/Accessories

UPONOR MLC Radiator & Tapwater Terminations/Accessories

Press connection elbow



Robust press radiator connection elbow with 15mm plated or copper spigot (for compression jointing only).

Description	Code	Qty
12x75mm Chrome	1014644	20
16x250mm Copper	1044852	20
16x350mm Chrome	1015626	20
16x1100mm Chrome	1015631	20

Chromed radiator compression elbow



Plated brass elbow with 15mm plated brass spigot for connecting MLC to radiators with suitable compression adapters (12mm : 1013813, 16mm : 1013806).

Description	Code	Qty
15x20mm MT	1002124	10

Press connection tee



Robust press radiator connection tee with 15mm bent plated copper spigot (for compression jointing only).

Description	Code	Qty
16x350x16mm	1015628	20

Danfoss connection set



Made of plated brass, male-threaded pressure screw. With insert part and clamp ring, with blue O-ring, suitable for use with female-threaded Danfoss radiator valves.

Description	Code	Qty
16x $\frac{1}{2}$ " MT	1013970	20

Radiator & Tapwater Terminations/Accessories

Wall plate elbow



Made of plated brass, with fixed press sleeve and smart end flange. XL denotes extended length body.

Description	Code	Qty
16x1/2"	1015345	10
20x3/4"	1015515	5
20x1/2"	1015512	10
253/4"	1048471	5
16x1/2" XL	1046332	10
20x1/2" XL	1046333	10

Press Tap U Elbow



Description	Code	Qty
16x1/2" FT x16	1015454	5

Manthorpe Radiator Pipe Guide and Seal



For use with 12mm MLC and PEX as a seal when exiting the wall behind radiators.

Description	Code	Qty
12mm	1046371	1

Snap ring



Clip-on snap ring made of Polypropylene, available in white only.

Description	Code	Qty
12mm	1011368	50
15/16mm	1011370	50
20mm	1011372	50

Compression adapter (MLC)



For adaption of MLC to other compression fitting bodies.

Note, threads must be checked.

Description	Code	Qty
12x10mm Brass	1013814	20
12x10mm Chrome	1013815	20
12x15mm Chrome	1013813	20
16x15mm Brass	1013805	10
16x15mm Chrome	1013806	10
20x22mm Brass	1013807	10
25x28mm Brass	1013808	10

MLC/copper adapter fittings



Press sleeve and brass spigot for connecting MLC to copper compression fittings (brass spigot is not suitable for solder connections).

NB. A suitable copper olive must be used.

Description	Code	Qty
16x15mm	1014517	10
20x22mm	1014556	10
25x22mm	1014582	10
25x28mm	1014587	10
32x28mm	1014605	10

Radiator & Tapwater Terminations/Accessories

Press Lever Ball Valve



Fully assembled and sealed lever valve c/w press adapters to MLC.

Description	Code	Qty
16mm	1046603	6
20mm	1046604	6
25mm	1046605	6
32mm	1046606	6
40mm	1046607	4
50mm	1046608	4
63mm	1046609	2

Compression Isolation Valve



Isolation valves c/w compression adapters to MLC.

Description	Code	Qty
16mm	1046610	10
20mm	1046611	10
25mm	1046612	5

Insert Pins and Screws for Mounting Track



For attachment of smart end wall elbows to mounting plate/angle/track. Set contains 10 insert pins and 10 screws.

Description	Code	Qty
Set contains 10 insert pins and 10 screws	1057847	1

Sound Protection Set



For sound insulation of a pair of smart end elbows. Contains shroud, baffle, insert pin and screw.

Description	Code	Qty
Set contains shroud, baffle, insert pin and screw	1057846	1

Mounting Plate



For use with smart end wall elbows. Designed for on-wall mounting. Allows tap connections with 75mm or 150mm spacings. Supplied with 2 insert pins and screws per plate.

Description	Code	Qty
75/150mm	1057840	5

Mounting Angle



For use with smart end wall elbows. Designed for in-wall mounting and flush finish. Allows tap connections with 75mm or 150mm spacing. Supplied with 2 inserts pins and screws per angle.

Description	Code	Qty
75/150mm	1057842	5

Mounting Track



For use with smart end wall elbows, on-wall or in-wall construction, with mounting steps every 75mm.

Description	Code	Qty
2000mm	1057844	10

Comprehensive installer, design and control courses available at the Uponor Training Academy.

• **UFH Installer Course**

A two-day course at our purpose-built facility in Lutterworth. The course is aimed at both new and experienced users of our products. Day 1 gives a thorough understanding of applications of UFH in our theory suite. Day 2 follows with practical exercises in our hands-on practical suite.

• **Design Considerations & Controls Course**

Recommended as a follow-up to the UFH Installer course, this course is usually aimed at experienced installers and gives a basic understanding of system requirements from a design point of view. You will also have the opportunity to look at any new Uponor products which are now available.

• **Controls Wiring Course**

Uponor has recently launched a range of innovative water temperature and air temperature controls. Consequently, we are now offering an informative course aimed at installers and electricians, who wish to increase their product knowledge with respect to Uponor control systems.

• **Merchant Course**

A course which gives an overview of Uponor products and their applications. Mainly aimed at Merchants but can be specifically tailored to give a bespoke course for installers, or anyone who requires specific guidance in the application of UFH or Plumbing. Please contact us to discuss your requirements.

All courses include:

- * Course Materials
- * Uponor delegate packs
- * Exclusive 'on the day' Tool Deals
- * Lunch



All courses are held at our purpose built facility close to J20 M1, in the market town of Lutterworth.

Training Academy: 01455 551363
Uponor Head Office: 01455 550355
email: training.uk@uponor.com
www.uponor.co.uk



The Professional Installation

Uponor is a leading manufacturer of plastic pipes for house construction and municipal technology. Our MLC Press-Fit plumbing system offers you the security that is so vitally important for your installation. It's reliable, high quality, simple, economical and permanently watertight with a long service life.

The complete system from one reliable source

MLC Press-Fit is the perfect solution-whether you're dealing with tap water, radiator connection or underfloor heating applications. The installation is simple and economical and the core of the system, our MLC pipe and the relevant fittings are manufactured in house... guaranteeing perfect coordination. Because of the inherent stability of the pipe and the low linear expansion, only a few fixing points are necessary. This delivers a highly practical advantage for a safe and fast installation. Our system is rounded off by a really well thought out Tool program: from a pipe cutting tool to a bevelling tool to pressing tools.

Quality that's tried and tested

With the Uponor MLC Plumbing System you can be confident that you're installing tried and tested, certified quality. Our system technology is safe and long lasting, certified by numerous tests and licenses.



Codes of Practice

The following Standards apply in the design and installation of plastic pipes for heating and hot/cold water applications

BS EN 12828:2003

Heating systems in buildings. Design for water-based heating systems.

BS EN 12831:2003

Heating systems in buildings. Method of calculation of the design heat load.

BS 6700:2006

Specification for design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages - specification.

Note: BS 6700 is to be withdrawn and replaced by a new British Standard BS EN 806 parts 1-5, which is currently under development, as is BS 8558, which will be a supplement and guide to BS EN 806

BS 5449:1990

(Withdrawn & replaced by BS EN 12828, but included for reference) Specification for forced circulation hot water central heating systems for domestic premises.

BS 5955-8:2001

Plastics pipework (thermoplastics materials).

Specification for the installation of thermoplastics pipes and associated fittings for use in domestic hot and cold services and heating systems in buildings.

BS 8000-15:1990

Workmanship on building sites. Code of practice for hot and cold water services (domestic scale).

PAS 33:1999

Specification for the design, installation and commissioning of gas fired central heating systems in domestic premises.

Water Industry Act 1991

Water Supply (Water Fittings) Regulations 1999.

The Building Regulations 2010

(Including approved documents G and L).



MLC Press-Fit

The multi-layered plumbing system with multiple benefits.

For more information please visit

www.uponor.co.uk

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