



Our story

Innovation, imagination and ingenuity...That's what we're all about here at Fluidconnections.

Our company was launched in 2000 to exclusively promote DMfit® (fittings designed for drinks dispensing and water purification). Since then, our client list has continued to expand each year.

Our infrastructure has also matched our ambitions: we now operate from our own purpose-built, state-of-the-art distribution centre, located in a sustainable environmental development on the fringes of Sherwood Forest in Nottinghamshire.

With our continuing success, particularly of our ever-popular Twistloc range, our mission is to remain at the forefront of plumbing and heating design technology for our clients throughout Europe.

Available from:

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TPSB 03/15



Twistloc®
Push-fit Plumbing System

Twistloc is the smart solution

Our Twistloc plumbing fittings are suitable for a wide range of plumbing & heating installations offering ease of use, reliability and reduced installation time.

This one step, fully demountable and reusable push-fit plumbing system is WRAS approved and combines both push-fit and twist locking technology to guarantee leak-free joints. And you don't even need any tools - Twistloc works through easy finger-tip release.

Not only is Twistloc lighter, more durable and easier to install, it also provides greater burst resistance than copper. In fact, various tests prove that Twistloc products are resistant to both temperature and pressures even beyond normal operation ranges.

Installation of Twistloc is safe, quick and guaranteed for 25 years - making it a better option for you and your customers. Our 25-year no quibble warranty, applies across our standard Twistloc fittings range from the date of delivery.

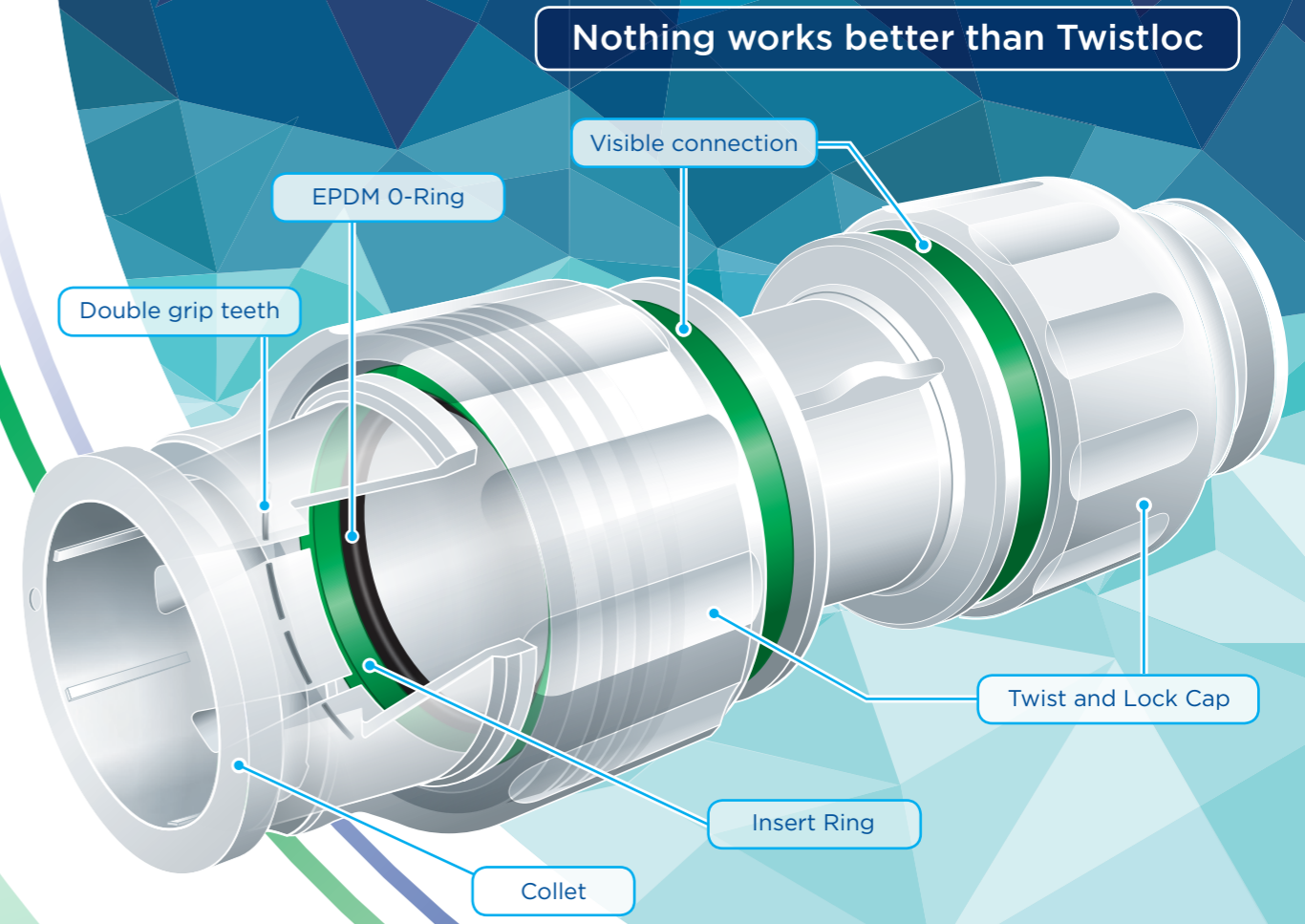
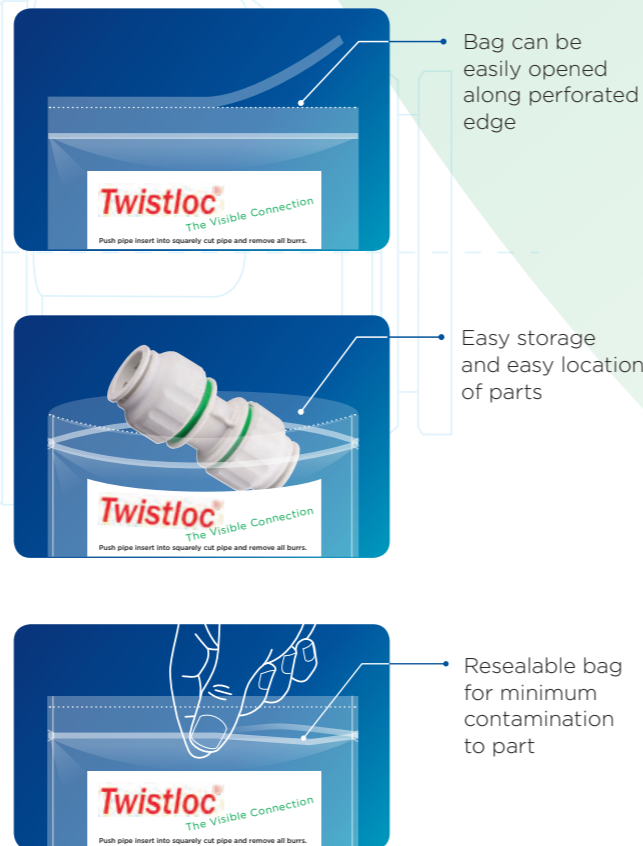
The Visible Connection - innovative, safe & unique to Twistloc

The **Visible Connection** means that once the highly visible green band can no longer be seen, you'll have absolute certainty that the joint is properly connected. That gives you complete reassurance and peace of mind: no mistakes, no leaks and no hassle.

You won't find this anywhere else. The **Visible Connection** is unique to the Twistloc range and patented by us. Not only does it make installation easier and safer, it's also totally straightforward and simple to understand.



Twistloc re-sealable packaging



Nothing works better than Twistloc

12 reasons to trust Twistloc

- WRAS approved pipe and fittings
- Push fit and twist lock fitting technology
- Visible connection - green bands to indicate secure connection
- Combustion resistant
- Lead free
- Excellent thermal stability
- Removable and reusable without damage to plumbing or fittings
- Re-sealable bags for easy access
- No tools required
- No scrap value
- 25-year warranty
- Full batch traceability

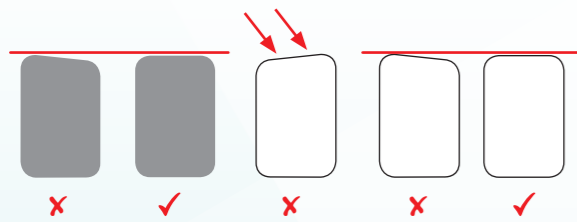
Twistloc	
Fittings are suitable for the use on the following pipes	
Copper	✓
Pex	✓
Pb	✓
PE-RT	✓
cPVC	✓

Twistloc How to install

Cut

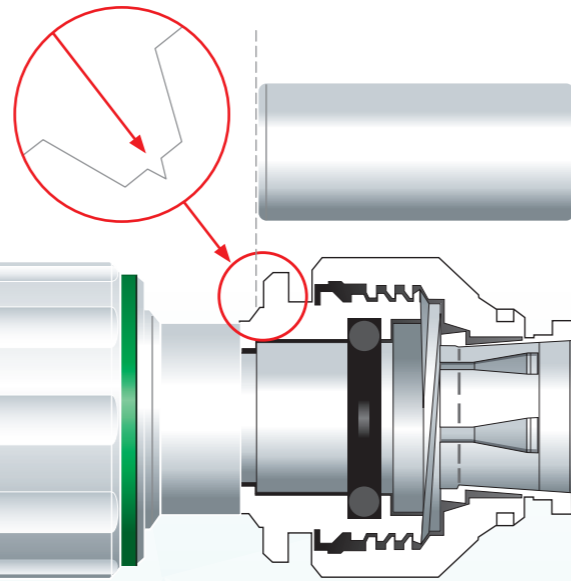
Use only purpose designed pipe cutters and cut the pipe squarely. Ensure the pipe and fitting are both free from burrs and scratches and they are kept free from dirt or debris.

A pipe insert must be used to act as an internal support.



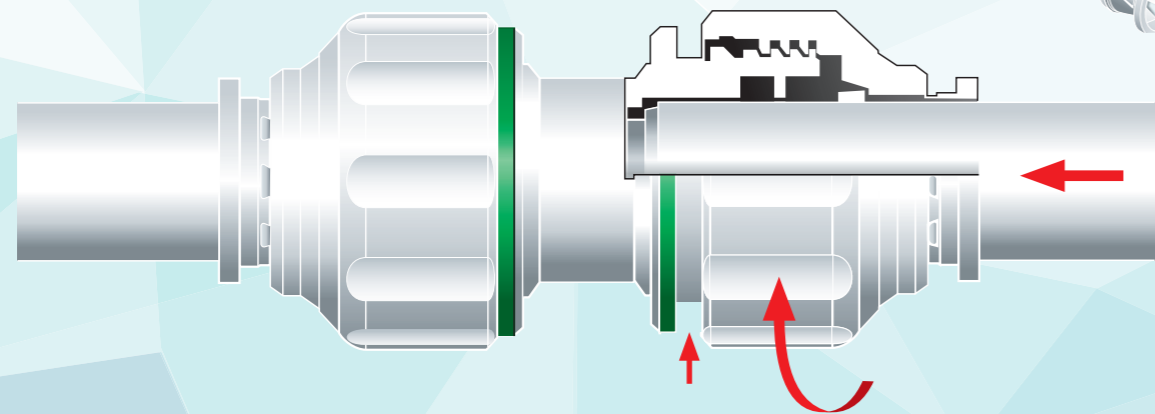
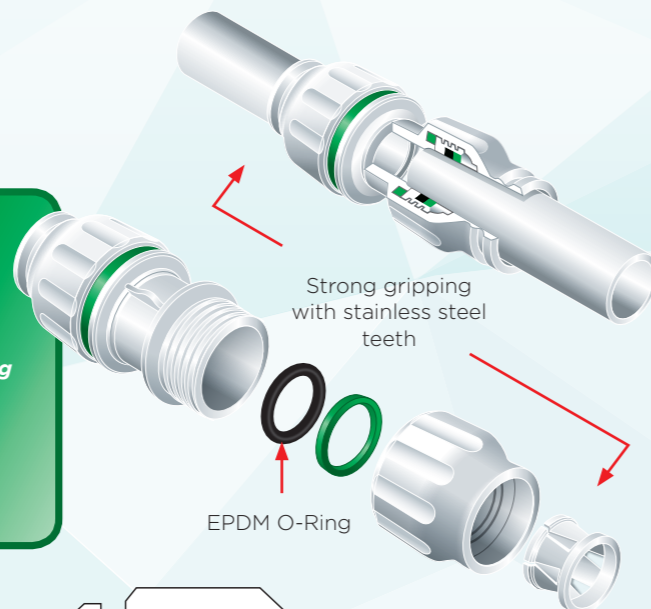
When cutting pipe, ensure that the ends are cut square and are free of burrs.

Pipe stops are marked by a line



Lock

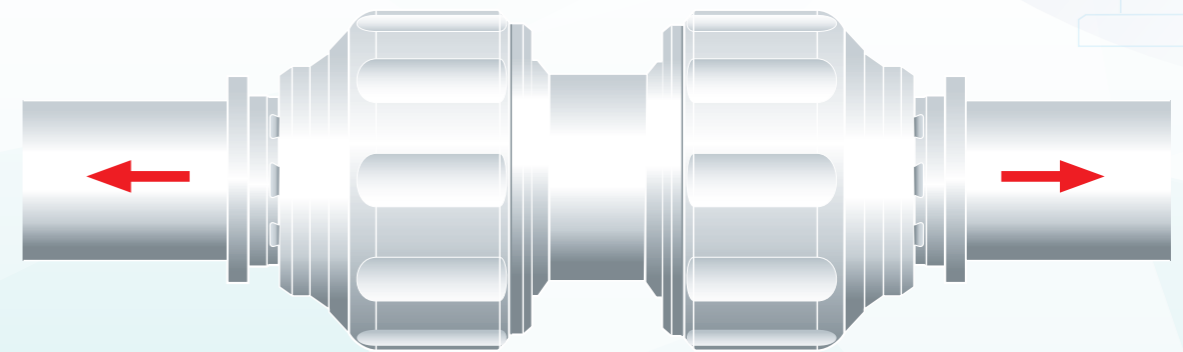
Ensure the pipe is pushed into the fitting fully past both the collet (gripper) and the 'O' ring, and is engaged properly. Twist the screw cap until the green coloured ring is no longer visible; this confirms a proper, secure fit and locks the pipe into position. It also increases pressure on the 'O' ring seal around the pipe for greater security.



Check

Pull to check connection is secure. We recommend pressure testing the system before use. A pipe insert should be used to act as an internal support.

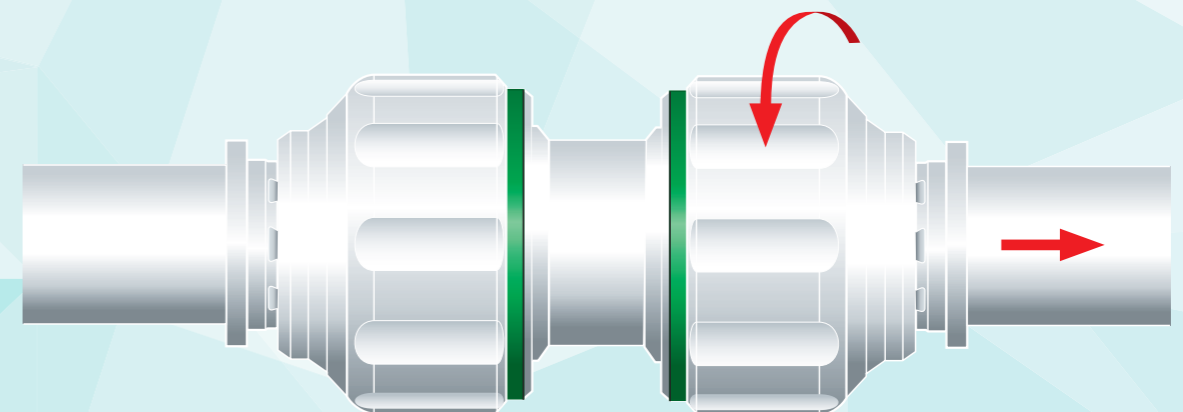
Ensure there are no scratches, gouges or any other form of damage to the circumference of the pipe.



Locked

Separate

Before attempting to disconnect any fitting, make sure that the system is de-pressurised. Unlock the fitting by twisting until the green ring is fully visible. Press collets squarely against the face of the fitting. With collets depressed, pull on the pipe to remove it from the fitting.



Unlocked



Plumbing Fittings

Our Twistloc plumbing fittings are suitable for a wide range of domestic plumbing & heating installations offering ease of use, reliability and reduced installation time.

Twistloc Plumbing Fittings

Part No	Description	List Price	Bag Quantity
Equal Union Connector			
TUC1010M	10mm X 10mm Union Connector	£2.15	10
TUC1515M	15mm X 15mm Union Connector	£1.60	10
TUC2222M	22mm X 22mm Union Connector	£2.50	5
TUC2828M	28mm X 28mm Union Connector	£6.33	3
Equal Elbow Union			
TEU1010M	10mm X 10mm Elbow Union	£2.64	10
TEU1515M	15mm X 15mm Elbow Union	£1.89	10
TEU2222M	22mm X 22mm Elbow Union	£3.02	5
TEU2828M	28mm X 28mm Elbow Union	£7.39	3
Tee Union			
TTU101010M	10mm X 10mm x10mm Tee Union	£3.05	10
TTU151515M	15mm X 15mm x 15mm Tee Union	£2.74	5
TTU222215M	22mm X 22mm x 15mm Tee Union	£4.58	3
TTU222222M	22mm X 22mm x 22mm Tee Union	£4.07	3
TTU221515M	22mm X 15mm x 15mm Tee Union	£4.58	3
TTU282828M	28mm X 28mm x 28mm Tee Union	£10.44	2
Reducing Union Connector			
TUC1510M	15mm X 10mm Reducing Union Connector	£3.74	10
TUC2215M	22mm X 15mm Reducing Union Connector	£4.42	5
Swivel Elbow Union (Plastic Nut)			
TSEU1507M	15mm X 1/2" BSPP Swivel Elbow Union	£3.18	10
TSEU1509M	15mm X 3/4" BSPP Swivel Elbow Union	£4.12	10
Swivel Elbow Union (Brass Nut)			
TEFCB1507M	15mm X 1/2" BSPP Swivel Elbow Union (Brass Nut)	£3.93	10
TEFCB1509M	15mm X 3/4" BSPP Swivel Elbow Union (Brass Nut)	£4.56	10

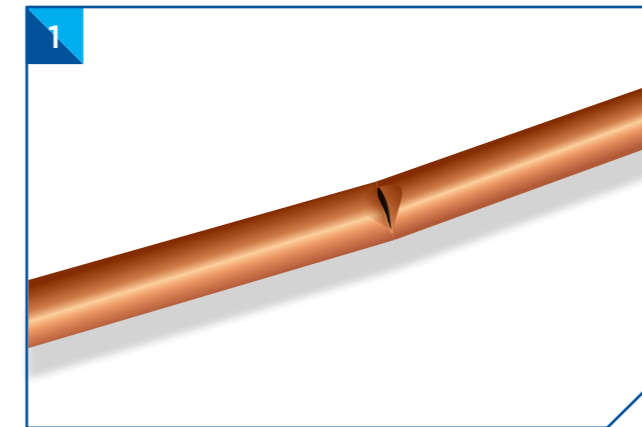
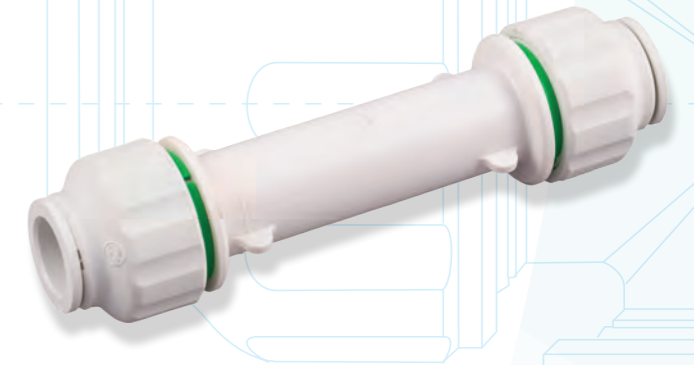
Twistloc Plumbing Fittings

	Part No	Description	List Price	Bag Quantity
Swivel Union Connector (Plastic Nut)				
	TSUC1507M	15mm X 1/2" BSPP Swivel Union (Plastic Nut)	£1.75	10
	TSUC1509M	15mm X 3/4" BSPP Swivel Union (Plastic Nut)	£3.83	10
Swivel Union Connector (Brass Nut)				
	TSFCB1507M	15mm x 1/2" BSPP Swivel Union (Brass Nut)	£3.12	10
	TSFCB1509M	15mm x 3/4" BSPP Swivel Union (Brass Nut)	£3.70	10
Tube End Stop				
	TTES15M	15mm Tube End Stop	£2.15	10
	TTES22M	22mm Tube End Stop	£2.61	5
	TTES28M	28mm Tube End Stop	£3.99	5
Tube Elbow Union				
	TTEU1010M	10mm X 10mm Tube Elbow Union	£3.29	10
	TTEU1515M	15mm X 15mm Tube Elbow Union	£3.70	10
	TTEU2222M	22mm X 22mm Tube Elbow Union	£5.62	5
Wing Back Elbow				
	TWB1507M	15mm X 1/2 BSPP Wing Back Elbow	£4.08	1
Stem Reducer				
	TRD2215M	22mm X 15mm Stem Reducer	£2.39	10
Slip Connector				
	TSC1515M	15mm X 15mm Slip Connector	£12.26	1

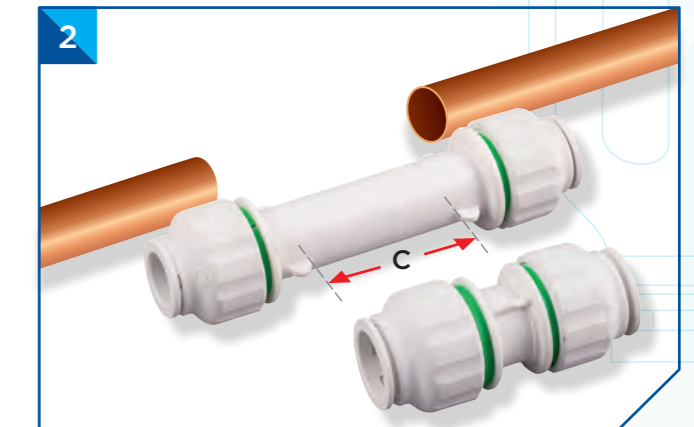
Twistloc Repair Slip Connector

Among our latest innovative products is our repair coupling with integral slip connector.

When you need to repair a burst pipe quickly, the Twistloc Repair Slip Connector offers you more flexibility than traditional methods of pipe repair.



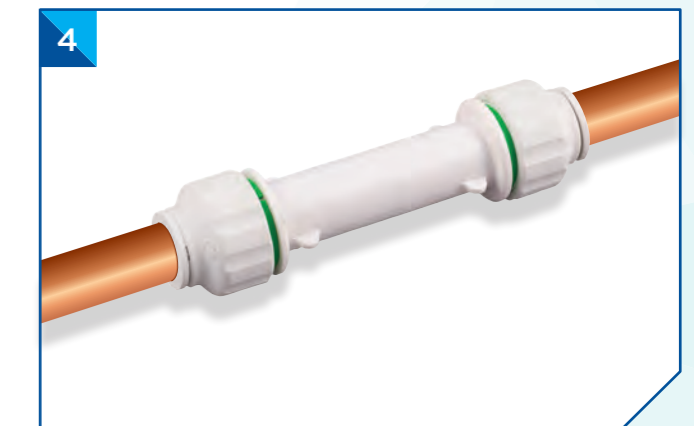
Ensure pipework is clean.



Cut the damaged pipe less than the instructed length C, as shown between the 2 fixed markers on the connector.



Connect the slip port with the pipe first and slide it until the connection is adjusted with the opposite side.



Connect to the other pipe and arrange the connection position.

To see a Twistloc Repair Slip Connector demonstration video, please visit:
www.twistloc.co.uk



Plumbing Fittings & Valves

Twistloc valves provide a cost effective and innovative solution for domestic plumbing applications.

Twistloc Plumbing Fittings and Valves

	Part No	Description	List Price	Bag Quantity
Tank Connector* 	TTCS15M	15mm Tank Connector	£2.67	1
	TTCS22M	22mm Tank Connector	£3.42	1
	TTCS28M	28mm Tank Connector	£13.14	1
Four Way Connector 	TFWC2210M	22mm x 10mm Four Way Connector	£9.48	1
VALVES				
Hand Valve Union Connector* 	THUC1515M	15mm X 15mm Hand Valve Union Connector	£5.80	1
	THUC2222M	22mm X 22mm Hand Valve Union Connector	£11.73	1
Double Check Valve* 	TDCHV1515M	15mm x 15mm Double Check Valve	£11.32	1
Hand Service Valve* 	THSV1515M	15mm x 15mm Hand Service Valve	£6.16	1
Appliance Tap* 	THVMCB1509M	15mm x 3/4" BSPP Appliance Tap	£5.25	1
Angled Service Valve (Brass Nut)* 	TASV060604B	3/8" x 3/8" BSPP x 1/4" Angled Service Valve (Brass Nut)	£12.13	1
	TASV060606B	3/8" x 3/8" BSPP x 3/8" Angled Service Valve (Brass Nut)	£12.13	1
	TASV070704B	1/2" x 1/2" BSPP x 1/4" Angled Service Valve (Brass Nut)	£12.13	1
	TASV070706B	1/2" x 1/2" x 3/8" BSPP Angled Service Valve (Brass Nut)	£12.13	1
Also available with plastic nuts				
Slip Valve Tee* 	TSTV1515M04	15mm x 15mm x 1/4" Slip Tee Valve	£10.05	1
	TSTV1515M06	15mm x 15mm x 3/8" Slip Tee Valve	£10.30	1

* These fittings are suitable for use on cold water only



Twistloc Pipe

Pipe

Our Pex and PB Barrier pipe are manufactured and certified to BS7291 Class S.

Pex Pipe

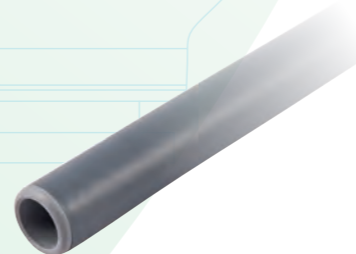
Part No	Description	List Price	Bag Quantity
PEX10M-50	10mm x 50MTR Pex Pipe	£70.46	1
PEX10M-100	10mm x 100MTR Pex Pipe	£140.89	1
PEX15M-25	15mm x 25MTR Pex Pipe	£40.71	1
PEX15M-50	15mm x 50MTR Pex Pipe	£81.40	1
PEX22M-100	15mm x 100MTR Pex Pipe	£162.80	1
PEX22M-25	22mm x 25MTR Pex Pipe	£79.85	1
PEX22M-50	22mm x 50MTR Pex Pipe	£159.67	1
PEX28M-25	28mm x 25MTR Pex Pipe	£109.50	1
PEX28M-50	28mm x 50MTR Pex Pipe	£219.00	1
PEX15M-3	15mm x 3MTR Length Pex Pipe	£97.67	20
PEX22M-3	22mm x 3MTR Length Pex Pipe	£191.60	20
PEX28M-3	28mm x 3MTR Length Pex Pipe	£131.50	10

Pipe Inserts



TTS15M - PEX	15mm Pipe Support	£0.31	10
TTS22M - PEX	22mm Pipe Support	£0.37	10
TTS28M - PEX	28mm Pipe Support	£0.58	10

PB Pipe



PB15M-25	15mm x 25MTR Polybutylene Pipe	£47.87	1
PB15M-50	15mm x 50MTR Polybutylene Pipe	£95.74	1
PB15M-100	15mm x 100MTR Polybutylene Pipe	£191.51	1
PB22M-25	22mm x 25MTR Polybutylene Pipe	£91.20	1
PB22M-50	22mm x 50MTR Polybutylene Pipe	£182.37	1
PB15M-3	15mm x 3MTR Length Polybutylene Pipe	£114.89	20
PB22M-3	22mm x 3MTR Length Polybutylene Pipe	£218.88	20

Pipe Inserts



TTS15M - PB	15mm Pipe Support	£0.31	10
TTS22M - PB	22mm Pipe Support	£0.37	10
TTS28M - PB	28mm Pipe Support	£0.58	10

Pipe Cutter



TPC	Pipe Cutter to 25mm	£27.20	1
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Flow-Bend Clip



TFBC15M	15mm Flow Bend Clip	£2.67	10
TBC22M	22mm Flow Bend Clip	£3.35	10



Flexi Hoses

All of our flexihoses are WRAS approved to 65°C.

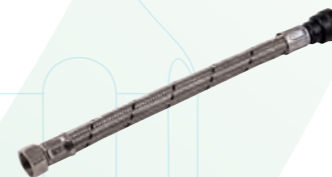
Twistloc Flexi Hoses

Pushfit X Pushfit Braided Flexi Hose



Part No	Description	List Price	Bag Quantity
FXH1515M-300	15mm x 15mm x 300mm Flexi Hose	£7.02	1
FHX1515M-500	15mm x 15mm x 500mm Flexi Hose	£10.32	1
FXH2222M-300	22mm x 22mm x 300mm Flexi Hose	£8.60	1
FXH2222M-500	22mm x 22mm x 500mm Flexi Hose	£11.73	1
<i>Other Lengths available</i>			

Pushfit X Nut Braided Flexi Hose



FXH15M07-300	15mm x 1/2" BSPP x 300mm Flexi Hose	£6.27	1
FXH15M07-500	15mm x 1/2" BSPP x 500mm Flexi Hose	£8.20	1
FXH15M09-300	15mm x 3/4" BSPP x 300mm Flexi Hose	£7.16	1
FXH22M09-300	22mm x 3/4" BSPP x 300mm Flexi Hose	£7.78	1
<i>Other Lengths available</i>			

Pushfit Valved X Nut Braided Flexi Hose



FXH1515M-300	15mm Valved x 1/2" BSPP x 300mm Flexi Hose	£10.79	1
FXH22M09-300	22mm Valved x 3/4" BSPP x 300mm Flexi Hose	£16.09	1
<i>Other Lengths available</i>			

For further Twistloc product information please visit:
www.twistloc.co.uk



Manifolds

A manifold distribution system for domestic hot and cold water applications.

For more information on our manifold system including technical questions and installation instructions, please call us on 01623 836814.

Twistloc Manifolds

Part No	Description
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Manifold Single Open



SMF6706SM-3P	3Ports Single Open, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-4P	4Ports Single Open, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-5P	5Ports Single Open, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-6P	6Ports Single Open, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-7P	7Ports Single Open, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-8P	8Ports Single Open, 28mm Inlet x 15mm Outlet Branch

Manifold Single Closed



SMF6706SM-3P-C	3Ports Single Closed, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-4P-C	4Ports Single Closed, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-5P-C	5Ports Single Closed, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-6P-C	6Ports Single Closed, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-7P-C	7Ports Single Closed, 28mm Inlet x 15mm Outlet Branch
SMF6706SM-8P-C	8Ports Single Closed, 28mm Inlet x 15mm Outlet Branch

Manifold Double Open



SMF6706DM-6P	3Ports x 3Ports Double Open, 28mm Inlet x 15mm Outlet Branch
SMF6706DM-8P	4Ports x 4Ports Double Open, 28mm Inlet x 15mm Outlet Branch
SMF6706DM-10P	5Ports x 5Ports Double Open, 28mm Inlet x 15mm Outlet Branch
SMF6706DM-12P	6Ports x 6Ports Double Open, 28mm Inlet x 15mm Outlet Branch
SMF6706DM-14P	7Ports x 7Ports Double Open, 28mm Inlet x 15mm Outlet Branch
SMF6706DM-16P	8Ports x 8Ports Double Open, 28mm Inlet x 15mm Outlet Branch

* Not to be used on central heating systems

Twistloc Technical information

PIPE CUTTING

Pipe stops/ Insertion depths are located at the following distances from the fitting end.

Twistloc Black Products

Size	Pipe Stop Depth
15mm	29.3mm
22mm	34.3mm
28mm	38.5mm

Twistloc White Products

Size	Pipe Stop Depth
10mm	22mm
15mm	33mm (Union Connector is 39mm)
22mm	36mm
28mm	42mm

All Twistloc fittings will be delivered in the unlocked position. This is evident by the green ring located between the screw cap and the body being visible.

Ensure that all pipe and fittings are free from scores and scratch marks and kept free from dirt and debris prior to installation.

CONNECTING TO COPPER PIPE

- Twistloc fittings are designed for use on metric copper pipe which conforms to BS EN 1057-R520.
- When installing with copper pipe cut the pipe with an appropriate pipe cutter designed for use with copper pipe.
- Pipe ends should be inspected carefully and remove all burrs or swarf.
- Push the pipe firmly into the fitting until the pipe passes both the collets (gripper) and the 'O' ring and is engaged properly.
- Twist the screw cap until the green coloured ring is no longer visible. This locks the collet in place and at the same time increases the pressure on the O ring seal around the pipe for greater security.

CONNECTING TO A COMPRESSION FITTING

Compression fittings which comply with BS EN 1254 are suitable for use with Twistloc pipe.

- Using the Twistloc pipe cutters cut the pipe squarely and insert the Twistloc pipe insert.
- If required apply PTFE Tape to the pipe.
- Fully insert the pipe into the fitting.
- Tighten the compression nut. Do not over tighten as this can compress the pipe too much.
- Oil based jointing compounds are not suitable for use with Twistloc pipe
- A Twistloc pipe insert must always be used with Twistloc pipe.
- Copper olives should be used rather than brass.
- After tightening, Twistloc pipe will not rotate in a compression fitting.

CONNECTING NEAR A SOLDERED JOINT

Soldering work should always be carried out before Twistloc fittings are installed. If this is not possible you must observe the following precautions.

- Don't allow flux to come into contact with Twistloc pipe or fittings. Do not use excessive amounts of Flux, as Flux runs can occur inside the pipe during soldering. Only apply Flux to the copper pipe end only.
- Solder must not come into contact with Twistloc pipes and fittings.
- Twistloc pipe and fittings can become excessively hot with soldering taking place nearby. To minimise the effects of this the copper pipe should be wrapped in a damp cloth. This should minimise any likely heat transfer.
- Systems should be flushed with water to remove any internal Flux residues.
- If any plastic pipework or fittings have been damaged during the soldering process they should be replaced immediately.

CONNECTING TO OTHER BRANDS OF PIPE

Twistloc insist on rigorous testing to ensure that all of our pipes and fittings are manufactured within certain tolerances. As we are unable to guarantee those tolerances used by other manufacturers, we are unable to recommend our fittings be used with any other plastic pipe or fittings be used with ours.

CONNECTING TO CHROME PLATED OR STAINLESS STEEL PIPE

Due to the relative surface hardness of these materials Twistloc fittings cannot be connected directly to chrome plated or stainless steel pipe.

CONNECTION TO BOILERS

Twistloc fittings and valves should never be connected directly to a boiler. Although most modern boilers have a high limit thermostat, residual heat can be conducted by the heat exchanger. Therefore Twistloc recommend a minimum of 1 metre from the boiler casing should be run in copper pipe unless otherwise stated in the boiler manufacturer's installation literature.

A gravity primary circuit operating on an uncontrolled cooking range or solid fuel boiler should then be run entirely in copper and the heating circuit run in copper for the first metre.

All appliances should have safety devices to make sure they cannot operate above the working temperature and pressure range. If safety devices are not incorporated within the appliance then external controls will be needed.

Water meters (and other devices) can contain check valves that prevent the expansion of heated water back down the main supply from a combi-boiler. If plastic pipe is to be used, a suitable expansion vessel must be fitted. This is especially important to consider if a water meter is fitted retrospectively. Twistloc do not recommend the use of plastic pipe on the main supply between a water meter and a combi boiler if an expansion vessel is not fitted.

Twistloc products should not be fitted to a sealed system, oil boiler, a back fired boiler or other uncontrolled heat source.

CONNECTING TO A MAINS WATER SUPPLY

A stop tap should be used when connecting to a mains water supply.

CONNECTING TO APPLIANCES

Twistloc manufacture a number of installations for connecting to appliances such as washing machines, dishwashers and even small bore water filters. Pipe clipping distances should always be adhered to when installing valves.

WHERE TO USE TWISTLOC

Twistloc has been designed for use in most domestic and commercial hot & cold water and heating applications. Installation work should be carried out using good plumbing practice as outlined in the installation guide.

WHERE NOT TO USE TWISTLOC

Twistloc should not be used in the following applications:
Twistloc should not be installed in a continuously operated re-circulating systems (secondary hot water circulation/ring main installations) for carrying gas, compressed air or fuel oil or for use in direct sunlight and ultra violet light. We recommend that if pipework and fittings are used externally that they are either covered or painted to avoid direct UV exposure.

Areas contaminated with petroleum and oil derivatives
The conveyance of water with a high concentration of chlorine. This can sometimes be found in swimming pools, hot tubs or decorative water features.

In a solar heating system as a primary circuit. Temperatures cannot be thermostatically controlled.

CABLING THROUGH JOISTS

The introduction of plastic pipe and fittings allows pipe to be easily curved and cabled through drilled joists or I-beams. This offers the plumber the following benefits:

- Floorboards can be laid allowing the plumber to work from below before the ceiling is installed.
 - Fewer chances of piercing the pipe when nailing floorboards into place.
- ### DRILLING THROUGH THE JOISTS
- Drilled holes in joists should be large enough to allow for thermal movement of pipe.
 - Hole diameters should be no greater than 0.25 of the depth of the joist and should be drilled on the neutral axis.
 - The minimum distance between a hole and a notch in the same joist should not be less than 100mm.
 - They should be not less than 3 diameters (centre to centre) apart and should be located between 0.25 and 0.4 times the span from the support.
 - For engineered joists, piping can be properly installed through holes in the web section without damaging flange members even when the preformed holes do not align on the plan. Please note that The Building Regulations Approved Document A gives exact instructions on the drilling of floor joists. Please refer to this document for full instructions.

SITWORK

PIPE SUPPORT

Pipe Diameter (mm)	Horizontal Runs (mtr)	Vertical
10mm	0.3	0.5
15mm	0.3	0.5
22mm	0.5	0.8
28mm	0.8	0.1

CLIPPING DISTANCES

For Surface mounted Pipe

To allow for expansion you must allow for a minimum of 60mm of pipework before fitting pipe clips. To reduce side-load or stress on the fittings pipes should be adequately supported.

Pipe Diameter (mm)	Horizontal Runs (mtr)	Vertical
10mm	0.3	0.5
15mm	0.3	0.5
22mm	0.5	0.8
28mm	0.8	1.0

BEND RADIUS

For sharp bends, standard elbow fittings can be used. For slight bends it is possible to use the flexibility of the pipe to produce a bend which can be clipped into shape, or tighter still with a 15mm cold forming bend, subject to the following limits.

Pipe Size	0/15/22/28mm
Min Radius with Clips	100/75/225/300mm
Min Radius with Cold Forming Bend	90mm

CONCEALED PIPEWORK

When installing the Twistloc system in concrete and masonry the pipe should be run in conduit pipe with access boxes for the fittings so that all pipe can be removable for replacement and maintenance therefore complying with the requirements of the Water regulations.

PIPES THROUGH WALLS AND FLOORS

To protect Twistloc pipe and fittings, always sleeve in conduit when passing through walls and floors.

Do not use expanding foam in its initial wet state as the chemicals in the foam can cause a chemical reaction.

To reduce noise and to act as a fire stop the annular gap between the pipe and the conduit should be filled with a resilient material.

It is also suggested that pipework should be run in a conduit when laying it next to metalwork. This will protect the pipe from any sharp edges due to thermal movement.

BURYING PIPEWORK IN SCREED, CONCRETE FLOORS OR WALLS

The Water Bye-laws state that distribution pipework must be accessible to facilitate its removal after replacement. Pipework must therefore be placed in conduit before being buried. To prevent against frost we also recommend insulating the pipework.

TWISTLOC FOR USE IN TIMBER AND STEEL FRAMED BUILDINGS

Twistloc is ideal for use in these applications. It is important during the installation process to ensure that the structural integrity of the vapour layer or the property itself is not compromised. Pipework should be installed in the inside of any thermal insulation.

If the architect did not allow for a recess to allow this to happen, conduit must be used.

METAL TAPE

Where pipework is in or behind wall surfaces and would otherwise not be detected by a metal detector or similar equipment, a metallic tape should be applied to the pipework.

Do not attach tape directly to Twistloc pipe and fittings.

CONNECTING TO A STORAGE VESSEL

We offer a range of tank connectors for connection to cold water storage tanks in 15mm, 22mm and 28mm.

When installing do not use any jointing compound on the connector. Hand tightening is all that is needed. Further mechanical tightening will damage the fitting.

CONNECTING TO BOILERS AND HEATERS

A minimum length of 1mtr of copper pipe must be installed before connecting to a Twistloc pipework system.

All connections should be made in accordance with the requirements of BS5955 part 8.

To avoid serious overheating trapped air must be purged from the heating system before the boiler is operated.

Always refer to the boiler manufacturers' installation instructions.

TWISTLOC WITHIN INTERNAL DRYWALL SYSTEMS

One of the benefits of Twistloc is that it can easily be cabled within wall structures during the construction process. This is best seen when using 10mm pipe and elbows as a feed to radiators. By incorporating this method the appearance of pipework on show in the home can be significantly reduced.

CONTINUOUSLY OPERATED RE-CIRCULATING SYSTEMS (SECONDARY HOT WATER CIRCULATION / RING MAIN INSTALLATIONS)

Plastic plumbing systems are not suitable for use on any continuously operated re-circulating systems (secondary hot water circulation / ring main systems). These installations differ greatly from traditional domestic installations and therefore Twistloc pipe and fittings may not be used.

FREEZING FOR MAINTENANCE/SYSTEM MODIFICATION

Twistloc pipe can be frozen for maintenance/repairs without damage to the system. When freezing equipment manufacturers' instructions should be followed. Always freeze at a reasonable distance from where pipe is to be cut.

PAINTING TWISTLOC PIPE AND FITTINGS

Twistloc can be painted with either a water based paint or an oil based paint with an undercoat. Cellulose based paints, paint strippers, thinners, flux, acid based descalers or aggressive cleaning products must not be used.

CORROSION INHIBITORS

We have tested Twistloc pipe and fittings with Fernox & Sentinel and have approved them for use with our fittings.

ANTIFREEZE

We only approve antifreezes which are based on Ethylene Glycol mixtures.

ELECTRICAL SAFETY

Please contact a registered electrical contractor or your local Electrical Authority with regards to bonding, continuity and electrical safety.

PRECAUTIONS

INSULATING PIPE

When installing pipe in an unheated area or outside insulation is required in accordance with BS6700 and BS5422to protect from frost damage. These requirements are the same as for copper pipe.

UV PROTECTION

Twistloc is suitable for use outdoors however it should either be painted or covered with insulation to protect against exposure to UV rays.

PRESSURE TESTING

It is essential that a full system check takes place upon completion of an installation. Before carrying out any test you must ensure that all Twistloc pipe and fittings are installed correctly.

We suggest a test of 2bar for 10 minutes followed by 10bar for 10 minutes. Any products that are not manufactured by Twistloc and are unable to withstand the test pressures should be disconnected during the test and capped off using the Twistloc end stop cap.

Pressure testing is NOT a substitute for making sure pipe and fittings are correctly installed. For details on how to make a good joint please refer to the beginning of the installation guide.

ADVISORY SERVICE

For all technical enquiries please complete the contact form or call 01623 836814

MAXIMUM TORQUE FIGURES

The Maximum torque values for Twistloc threads are as follows:

Thread	Size	Maximum Torque
Plastic	1/2"	3.5Nm
	3/4"	4Nm
	1"	5Nm

* 1Nm=8.85lbf.in/1lbf.in=0.01kgf.m

CAUTION

- Do not insert fingers into Twistloc fittings as the stainless steel teeth may cause injury.
- If Pex or PB pipe is used, then a pipe support insert must be used.
- Twistloc fittings should not be used for gas, fuel, oil or compressed air applications.
- Twistloc fittings should not be buried.
- All Twistloc fittings and related products should be selected, installed, used and maintained in accordance with these technical specifications.
- When cutting pipe ensure that the ends are cut square and are free from burrs.
- Ensure there are no scratches, gouges or any form of damage on the circumference of the pipe within 1" of the cut end. Damage in this area may cause leakage. Check the fitting for any signs of damage or foreign objects.
 - Do not use damaged or scored pipe.
 - Do not use a hacksaw to cut the pipe. Do not leave burrs on the pipe.
- Ensure that the pipe is pushed into the fitting fully and is engaged properly in accordance with Twistloc instructions.
- If the pipe is not fully inserted the connection cannot be properly sealed even if the fitting is coupled.
- You must push the pipe into the fitting and ensure that the pipe passes through the collets (gripper) and the O ring inside the fitting.
- When a connection has to be disassembled and reused, ensure the pipe has no damage around the circumference of the pipe. Inspect the pipe support and fitting for any sign of damage and ensure they are free of foreign materials. The connection can then be reassembled.
- PIPE INSERT**
 - When using plastic pipe the pipe manufacturer's insert must be used.
- FITTINGS & VALVES PERFORMANCE**

Application	Operating Temperature	Maximum Temperature	Maximum
Cold Water	20 C	20 C	12 bar
Hot Water	65 C	95 C	6 bar
Central Heating	82 C	105 C	3 bar

For our Terms and Conditions please visit our website:

www.twistloc.co.uk

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