

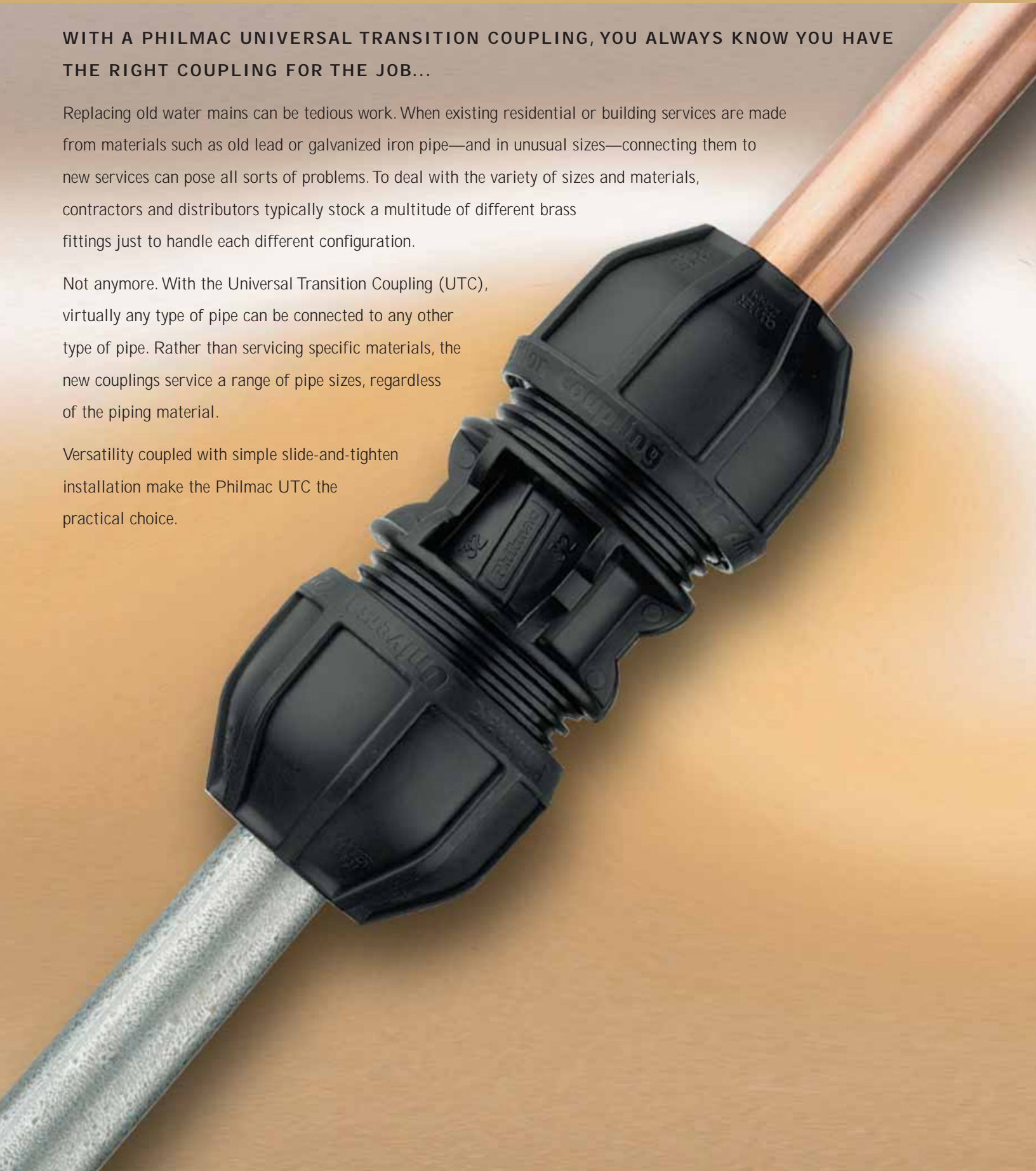
UNIVERSAL TRANSITION COUPLINGS FROM PH

WITH A PHILMAC UNIVERSAL TRANSITION COUPLING, YOU ALWAYS KNOW YOU HAVE THE RIGHT COUPLING FOR THE JOB...

Replacing old water mains can be tedious work. When existing residential or building services are made from materials such as old lead or galvanized iron pipe—and in unusual sizes—connecting them to new services can pose all sorts of problems. To deal with the variety of sizes and materials, contractors and distributors typically stock a multitude of different brass fittings just to handle each different configuration.

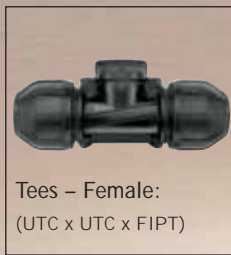
Not anymore. With the Universal Transition Coupling (UTC), virtually any type of pipe can be connected to any other type of pipe. Rather than servicing specific materials, the new couplings service a range of pipe sizes, regardless of the piping material.

Versatility coupled with simple slide-and-tighten installation make the Philmac UTC the practical choice.





Tees – Male:
(UTC x UTC x UTC)



Tees – Female:
(UTC x UTC x FIPT)



Elbows:
(UTC x UTC)



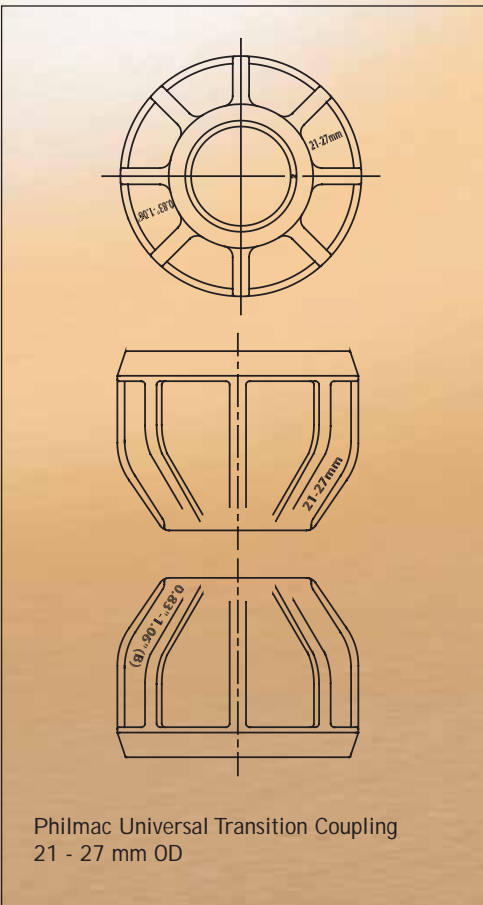
Reducing Couplings:
(UTC x UTC)



Adapters:
(UTC x MIPT)



Couplings:
(UTC x UTC)



UNIVERSAL TRANSITION COUPLING

With its universal design, the UTC can join copper, lead, galvanized iron, PVC and even PE and PEX pipes, in sizes ranging from 0.6" to 2.4".

All these configurations are serviced using only 7 different Universal Transition Couplings.

SIMPLIFY INSTALLATION

No loose components. No pipe preparation. No nut removal.

The UTC's slip-style design simplifies installation for most pipe sizes, even in confined spaces. Simply insert the pipes directly into the fitting and tighten the nuts. Special tools are not required.

ENSURE PEAK PERFORMANCE

Rated at over 160 psi up to 73°F

The UTC is suitable for cold water only both above and below ground use on potable water supplies. It is available in a number of different configurations to service a broad range of conditions.

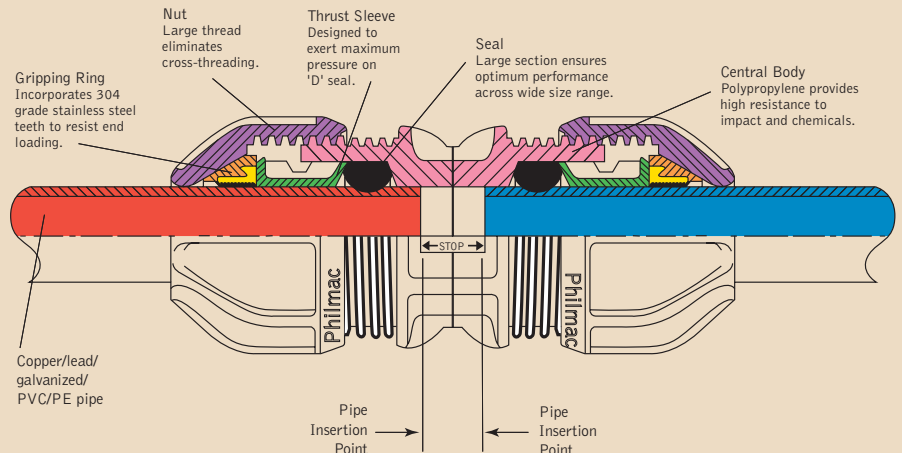
Designs include:

- Standard Couplings
- Reducing Couplings
- Elbows, Tees & Adapters

CONVENTIONAL EQUIPMENT

Conventionally, brass fittings are used to join dissimilar pipes—with each fitting designed specifically for a certain size and type of piping material.

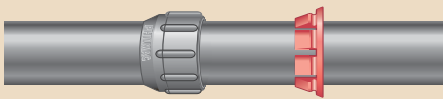
To service this wide variety of configurations, a large number of fittings must be kept in stock.



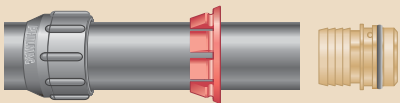
INSTALLATION INSTRUCTIONS

COMPRESSION FITTINGS

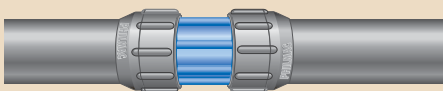
Polyethylene



1. Cut pipe square and deburr. Remove nut from central body. Slide nut & split collet over pipe, ensuring the taper on split collet faces towards the nut.

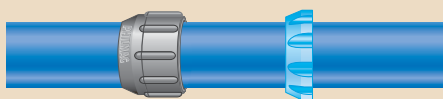


2. Tap insert into pipe, preferably with a flat object. Ensure o-ring is correctly positioned on the insert. Slide split collet up to insert shoulder.

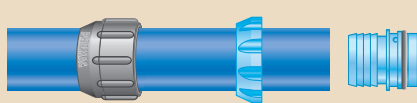


3. Push pipe with insert and seal ring assembly into end of central body. Engage and tighten nut with a wrench.

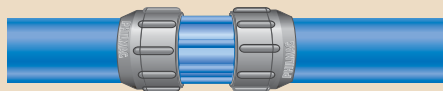
Q-Line™ Composite Pipe (PEX-AL-PEX & PE-AL-PE)



1. Cut pipe square. Only a plastic pipe cutter should be used. Ensure that the cutting blade is in good condition and sharp – a hacksaw is not recommended. Remove nut from central body. Slide nut & split collet over pipe, ensuring the taper on split collet faces towards the nut.

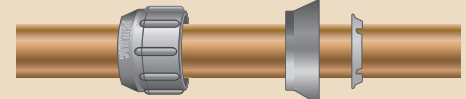


2. Tap insert into pipe, preferably with a flat object. Ensure o-ring is correctly positioned on the insert. Slide split collet up to insert shoulder.

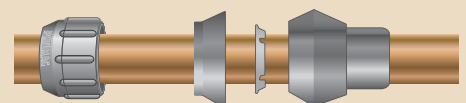


3. Push pipe with insert and seal ring assembly into end of central body. Engage and tighten nut with a wrench.

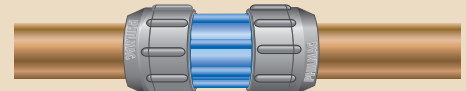
Copper



1. Select correct fitting size and copper assembly set. Cut tube square, preferably with cutters, and deburr. Degrease tube and roughen with wire wool or similar. Slide nut, backing ring & metal clamp ring onto tube.



2. Ensure notches in gripper face tube end. Position rubber seal ring on tube with thin section flush with end of tube. Slide clamp and backing ring forward to meet rubber seal ring.



3. Push assembly into body of fitting. Engage and tighten nut with a wrench. Ensure that all pipework is securely anchored.

IMPORTANT: When inserting plastic pipes and/or plastic fittings into existing metal pipework, ensure electrical earth continuity is maintained.

NB: Care must be taken not to cut pipe too short as it is essential to draw the pipe into the fitting when making a joint. For sealing NPT & AWWA threads, PTFE tape should be applied to male threads. Avoid excessive wrench pressure on central body when tightening nuts.

END USER'S RESPONSIBILITY

1. Ensure pipe is correct specification and that fittings and pipe meet local authority requirements.
2. Fittings and pipe should be installed in accordance with manufacturer's instructions and industry standards.
3. Designed for potable cold water applications up to 200 PSI working pressure at 73°F (23°C). For temperatures exceeding this level, pressure must be derated in accordance with polyethylene pipe manufacturer's specifications.
4. Chemical resistance – for special applications check suitability of materials with manufacturer.

UNIVERSAL TRANSITION COUPLINGS AND ASSORTED FITTINGS

Sizing Chart							
	A 0.59 - 0.83	B 0.83 - 1.06	C 1.06 - 1.34	D* 1.34 - 1.54	E 1.54 - 1.69	F* 1.85 - 1.93	G* 2.32 - 2.40
Pipe Material (in)	Pipe Size in inches						
PE CTS OD / PEX	1/2	3/4	1	1 1/4	1 1/2	-	-
PE IPS OD	-	1/2	3/4	1	1 1/4	1 1/2	2
PE SIDR 7 Series 100	-	1/2	3/4	1	-	-	-
PE SIDR 9	1/2	3/4	1	-	-	-	-
PE SIDR 11	-	3/4	1	-	1 1/4	1 1/2	-
PE Series 75	1/2	3/4	1	-	1 1/4	-	-
Copper	1/2	3/4	1	1 1/4	1 1/2	-	-
PVC	-	1/2, 3/4	1	-	1 1/4	-	2
Galvanized Iron	-	1/2, 3/4	1	-	1 1/4	-	2
Lead	-	5/8	3/4	1	-	-	-
Strong	-	1/2	5/8, 3/4	1	-	-	-
Extra Strong	-	1/2	3/4	-	1	-	-
Double Extra Strong	-	1/2	3/4	-	1	-	-

This chart is intended as a quick reference guide only. If you have any doubt regarding the pipe size, then select the correct UTC fitting by measuring the actual OD of the pipe.

* Denotes new sizes available

PRE-ASSEMBLY

1. Refer to the table above to select the correct UTC fitting for the job.
2. Cut pipes to required length using the 'STOP' markings on the outside of the fitting as a guide.
3. Ensure the end of the connecting pipe is undamaged and clean. Lubrication is unnecessary.

Note: Each UTC accepts a range of pipe diameters.

4. Ensure the nut is at least 3 threads back from the flange of the fitting for pipe sizes at the lower end of the range, and 4-5 threads back for pipe sizes at the upper end of the range.

Note: Unlike other types of fittings, it is not necessary to remove the UTC nut prior to installation.

ASSEMBLY

1. Insert the pipe into the fitting to the depth indicated by the 'STOP' markings.
2. Tighten the nut hand-tight, then a quarter turn with a strap wrench.

Note: The nut will not necessarily reach the body flange, especially on pipe sizes at the upper end of each range.

DISASSEMBLY

1. Unscrew the nut.
2. Withdraw the pipe from the fitting.

Note: For pipes at the very top end of the UTC range, it may be necessary to disassemble the fitting to aid pipe insertion and removal.

PRODUCT CATALOGUE

Coupling (Comp x Comp)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x BN1	255000	10
BM2 x BN1	255001	10
BN2 x BN2	255002	10
BN3 x BN2	255003	10
BN3 x BN3	255004	10
BN4 x BN3	255207	5
BN4 x BN4	255005	5
BN5 x BN4	255205	5
BN5 x BN5	255006	5
BN6 x BN5	255206	5
BN6 x BN6	255007	5
BN7 x BN6	255009	5
BN7 x BN7	255008	5



Elbow (Comp x Comp)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x BN1	255000	10
BN2 x BN2	255002	10
BN3 x BN3	255004	10
BN4 x BN4	255005	5
BN5 x BN5	255006	5
BN6 x BN6	255007	5
BN7 x BN7	255008	5



Adapter (Comp x MIPT)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x 1/2 MIPT	255010	10
BM2 x 1/2 MIPT	255011	10
BN2 x 3/4 MIPT	255012	10
BN3 x 1/2 MIPT	255013	10
BN3 x 3/4 MIPT	255014	10
BN3 x 1 MIPT	255015	10
BN4 x 3/4 MIPT	255016	5
BN4 x 1 MIPT	255017	5
BN4 x 1 1/4 MIPT	255018	5
BN5 x 1 MIPT	255019	5
BN5 x 1 1/4 MIPT	255020	5
BN5 x 1 1/2 MIPT	255021	5
BN6 x 1 1/2 MIPT	255022	5
BN6 x 2 MIPT	255023	5
BN7 x 2 MIPT	255024	5



Elbow (Comp x FIPT)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x 1/2 FIPT	255060	10
BN2 x 1/2 FIPT	255061	10
BN2 x 3/4 FIPT	255062	10
BN3 x 3/4 FIPT	255063	10
BN3 x 1 FIPT	255064	10
BN4 x 1 FIPT	255065	5
BN4 x 1 1/4 FIPT	255066	5
BN5 x 1 1/4 FIPT	255067	5
BN5 x 1 1/2 FIPT	255068	5
BN6 x 1 1/2 FIPT	255069	2
BN6 x 2 FIPT	255070	2
BN7 x 2 FIPT	255071	2



Adapter (Comp x FIPT)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x 1/2 FIPT	255030	10
BM1 x 3/4 FIPT	255029	10
BN2 x 1/2 FIPT	255031	10
BN2 x 3/4 FIPT	255032	10
BN3 x 3/4 FIPT	255033	10
BN3 x 1 FIPT	255034	10
BN4 x 1 FIPT	255035	5
BN4 x 1 1/4 FIPT	255036	5
BN5 x 1 1/4 FIPT	255037	5
BN5 x 1 1/2 FIPT	255038	5
BN6 x 1 1/2 FIPT	255039	5
BN6 x 2 FIPT	255040	5
BN7 x 2 FIPT	255041	5



End Plug

Body & Nut Size #	Product Code	Pkg. Qty.
BN1	255110	20
BN2	255111	20
BN3	255112	20
BN4	255113	10
BN5	255114	5
BN6	255115	5
BN7	255116	5



Tee (Comp x Comp x Comp)

Body & Nut Size #	Product Code	Pkg. Qty.
BN1 x BN1 x BN1	255079	10
BN2 x BN2 x BN2	255080	10
BN3 x BN3 BN3	255081	10
BN4 x BN4 x BN4	255082	5
BN5 x BN5 x BN5	255083	5
BN6 x BN6 x BN6	255084	5
BN7 x BN7 x BN7	255085	2

