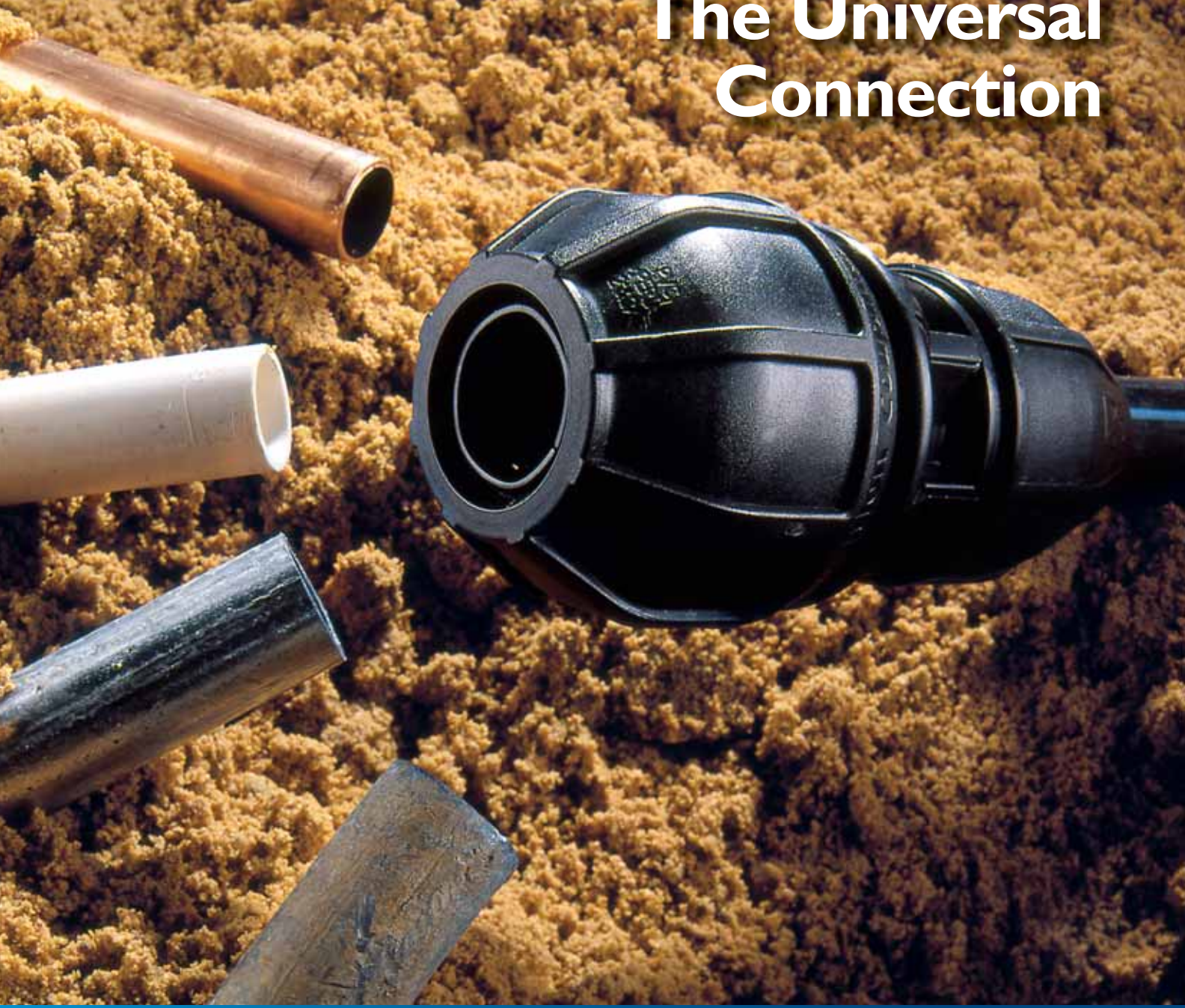


UNIVERSAL TRANSITION COUPLING

The Universal Connection



Philmac[®]

The connection you can trust.

INTRODUCTION

Philmac, the global leader in the design and manufacture of plastic compression fittings, has developed a unique range of mechanical compression fittings that provide the ultimate in pipe connection flexibility.

The UTC® range is especially designed for connecting pipes that are made from a variety of different materials, such as polyethylene, galvanized iron, PVC, copper, ABS, lead and stainless steel.

In addition to winning an Australian Design Award in 1999 for innovation in product development, the UTC® has been embraced by water utilities right around the world, including Australia, the UK, Europe and North America.



BENEFITS

Complete Flexibility

Universal Design: Through its wide tolerance, the Philmac UTC® is designed to accommodate a range of different diameters on most pipe material (including copper, PE, PVC, lead, steel, galvanized iron, ABS and stainless steel).

Fast and Easy Installation

Slide & Tighten™ technology: The Philmac UTC® incorporates all the benefits of Philmac's Slide & Tighten™ technology.

Simply witness mark the pipe against the flange on the fitting, and then insert the pipe to the correct depth. The nut can then be tightened using a wrench. The UTC® is fully installed when the nut can no longer be tightened with reasonable force.

No special tools are required and the Philmac UTC® is supplied ready to use.

Easy Disassembly: The design of the UTC® means that once the nut is backed off, the pipe can easily be removed from the fitting

Complete Security

Dynamic Sealing Method: The mechanical advantage of the nut thread compresses the seal into position, eliminating resistance when inserting the pipe into the fitting, so there is no risk of seal distortion or displacement.

** Pipes at the top end of the fitting tolerance may incur minimum resistance.*

No Loose Components: The Philmac UTC® is fully integrated with no loose components. There is no need for individual assembly of a split ring, sealing ring or nut. All that is required is the insertion of the pipe and tightening of the nut.

Approvals: The Philmac UTC® holds a number of potable water approvals – WSAA and WaterMark (Australia); WRAS (UK) for above and below ground use; ACS (France); DTC (Denmark), CSA (Canada) and NSF (USA). The fittings are also manufactured to the highest standards in accordance with the company's ISO 9001:2000 Quality Endorsed status.

High Performance Materials

Made from advanced thermoplastic materials: The Philmac UTC® is manufactured from lightweight high performance thermoplastic materials with outstanding impact, UV, chemical and corrosion resistance. The UTC® end contains hard stainless steel grippers which provide superior end load resistance.

Rated to 1250KPa (181 PSI, 12.5 Bar): The Philmac UTC® is pressure rated to 1250KPa (12.5 bar) to meet the needs of high pressure systems.

50 year + design life: Built to withstand the toughest conditions to ensure longevity and durability, Philmac UTC® has a 50 year+ design life.

Complete Coverage

The Philmac UTC® range is comprehensive: Straight and reducing joiners, elbows, tees and male adaptors, in both transition (PE to UTC®) and double ended versions (UTC® to UTC®) ranging from 15mm to 61mm

HOW IT WORKS

PRINCIPALS OF OPERATION – COMPRESSION FITTINGS

FULLY OPEN – PE END

Fitting is pre-assembled in the ready to use position with 3 threads showing

Clearance between the pipe and fitting allows for easy insertion of the pipe

Split ring – is in a relaxed position

Seal – is in a relaxed position

Pipe is inserted up to the flange on the fitting

FULLY OPEN – UTC® END

Fitting is pre-assembled in the ready to use position with 3 threads showing

Clearance between the pipe and fitting allows for easy insertion of the pipe

Split ring – is in a relaxed position

Seal – is in a relaxed position

Pipe is inserted up to the flange on the fitting

FULLY CLOSED – PE END

Positive internal stop when the spacer butts up against the nut and fitting.

Split ring bites into the pipe providing end load resistance

Seal ring compression is achieved by exploiting the mechanical advantage of the thread.

FULLY CLOSED – UTC® END

The nut is tightened with a wrench firmly to ensure proper installation. Some threads may be exposed, depending on the size of pipe inserted into the fitting.

Split ring with the stainless grippers bites into the pipe providing end load resistance

Seal ring compression is achieved by exploiting the mechanical advantage of the thread.



Philmac Pty Ltd

47-59 Deeds Road
North Plympton
South Australia
AUSTRALIA 5037

AUSTRALIA SALES

Ph: 1800 755 899
Fax: 1800 244 688

INTERNATIONAL SALES

Telephone +61 8 8300 9217
Facsimile +61 8 8300 9390