

# PHILMAC 3G COMPRESSION FITTINGS

1/2" - 2" (12mm - 50mm)

**Philmac**

Gone are the days of juggling and assembling loose fitting components on the job site or even having to turn off the water line when connecting a new line. Thanks to Philmac's unique Slide & Tighten™ technology, you can get a perfect seal with Philmac 3G fittings in any condition by hand or with a wrench.

Philmac fittings come pre-assembled and ready to use so there's no need to disassemble the fitting or prepare the pipe. No solvent cementing or special tools are needed. Simply insert the pipe into the fitting until you feel the first point of resistance and then tighten the nut. Visual stops and gradually increasing mechanical resistance as the nut is turned prevents over-tightening.

Philmac's compact size makes installation easy in confined spaces, and Philmac 3G fittings are engineered to avoid pipe twist during installation, reducing the risk of untightening previously-installed joints – a constant risk with brass fittings.

## ADVANTAGES

- 1 Turn-to-Tighten Design**  
Philmac's unique design allows you to achieve a perfect seal with the turn of a hand or wrench. Visual stops and gradually increasing mechanical resistance as the nut is tightened reduces the risk of over-tightening.
- 2 Compact Ergonomic Grip**  
Small and lightweight, Philmac 3G fittings are specially shaped to your hand for easy turning. Their compact size is perfect for working in confined areas.
- 3 Advanced Material**  
Philmac 3G fittings are made from an advanced high-performance polypropylene so they're UV, impact and corrosion-resistant—tough enough for 50+ years of reliable service.
- 4 Dynamic Compression Sealing**  
Philmac 3G fittings are highly engineered to provide a robust leak-proof seal with superior pull-out resistance. In addition, the strength of the nut ensures minimal distortion when tightened with a wrench.
- 5 Component Interchangeability**  
Because both the CTSOD and ID Series fittings are based on the same core fitting design, components can be easily interchanged in order to transition from one type to another on the same fitting. And with adaptor kits available for other material types, you'll always have the right fitting for the job.

## APPLICATIONS

- Water Service Coupling
- Residential Water Service
- Residential Irrigation Systems
- Cottage Country Water Service
- Rural Irrigation

## STANDARDS



## **i** DID YOU KNOW?

Philmac's unique Slide & Tighten™ technology can give you a perfect seal just by hand or with a wrench. Just slide and tighten and the job's done!



## PHILMAC 3G: CTSOD AND ID SIZES

Philmac 3G Compression Fittings offer the flexibility to connect to five different types of pipe; three polyethylene pipe types (CTS, ID Series and IPS), Composite and Copper.

There are two dedicated fittings, CTS and ID Series, which come preassembled and ready to use. That leaves three others: IPS, XPA, and copper that require a conversion kit. Converting a Philmac fitting is very simple and can be done in just a few steps.

CTSOD

ID Series



### OD Fittings

3/4" – 2"



### ID Series

1/2" – 2"



## UNIVERSAL TRANSITION COUPLING (UTC) & FITTINGS

With the Universal Transition Coupling, virtually any type of pipe can be connected to any other type of pipe. Rather than servicing specific materials, the UTCs service a range of outside pipe diameters, regardless of the piping material. The wide tolerance range allows seven couplings to cover pipe sizes from 1/2" to 2". Versatility coupled with simple slide-and-tighten installation make the Philmac UTC the practical choice.



### ADVANTAGES

- ✓ Universal transition couplings are the ideal solution for connecting a wide variety of pipes.
- ✓ One coupling connects copper, galvanized iron, PVC, lead and even PE and PEX.
- ✓ Wide tolerance range allows seven couplings to cover pipe sizes from 1/2" to 2".
- ✓ Easy to fit "Slide & Tighten" technology.
- ✓ Couplings are end-load resistant with no restraint needed to prevent pipe pull-out.



### Sizing Chart

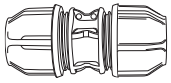
Pipe Material Standard	A	B	C	D	E	F	G
	0.59" - 0.83" 15 - 21 mm	0.83" - 1.06" 21 - 27 mm	1.06" - 1.34" 27 - 34 mm	1.34" - 1.54" 34 - 39 mm	1.54" - 1.69" 39 - 43 mm	1.85" - 1.93" 47 - 49 mm	2.32" - 2.40" 59 - 61 mm
Nominal Pipe Size (inches)							
PE / PEX CTS OD	1/2	3/4	1	1-1/4	1-1/2	-	-
PE IPS OD	-	1/2 or 3/4	1	-	1-1/4	1-1/2	2
PE SIDR 7	1/2	3/4	-	1	-	-	-
PE SIDR 9	1/2	3/4	1	-	1-1/4	-	-
PE SIDR 11.5	1/2	3/4	1	-	1-1/4	1-1/2	-
PE SIDR 15	1/2	3/4	1	-	1-1/4	-	2
Copper CTS OD	1/2	3/4	1	1 1/4	1-1/2	-	-
PVC IPS OD	-	1/2 or 3/4	1	-	1-1/4	1-1/2	2
Galvanized Iron IPS OD	-	1/2 or 3/4	1	-	1-1/4	1-1/2	2
ABS IPS OD	-	1/2 or 3/4	1	-	1-1/4	1-1/2	2
Lead - Strong	1/2	5/8	3/4	1	1-1/4	-	-
Lead - Extra Strong	-	1/2	5/8 or 3/4	1	-	-	-
Lead - Double Extra Strong	-	1/2	5/8 or 3/4*	3/4*	1	1 1/4	-

\* If 3/4" XXS Lead Pipe OD is larger than 1.34", the pipe needs to be shaved if using a Size C UTC fitting. Otherwise, a size D UTC Coupling can be used when OD is larger than 1.34".

## PRODUCT SELECTION CHART – UNIVERSAL TRANSITION COUPLINGS (UTC) & FITTINGS

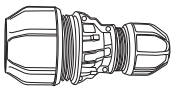
Dimension mm	Product Code
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### Coupling UTC x UTC



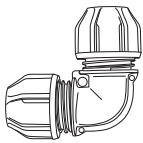
15 - 21 x 15 - 21	255208
21 - 27 x 21 - 27	255209
27 - 34 x 27 - 34	255210
34 - 39 x 34 - 39	255946
39 - 43 x 39 - 43	255211
47 - 49 x 47 - 49	255947
59 - 61 x 59 - 61	255948

### Reducing Coupling UTC x UTC



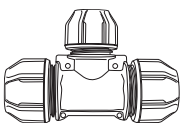
21 - 27 x 15 - 21	255212
27 - 34 x 15 - 21	255214
27 - 34 x 21 - 27	255213
34 - 39 x 27 - 34	255197
39 - 43 x 27 - 34	255215

### Elbow UTC x UTC



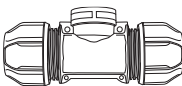
15 - 21 x 15 - 21	255156
21 - 27 x 21 - 27	255157

### Tee UTC x UTC x UTC



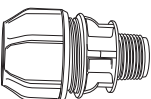
15 - 21 x 15 - 21 x 15 - 21	255158
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### Tee UTC x UTC x FIPT



15 - 21 x 3/4 FIPT	255159
21 - 27 x 3/4 FIPT	255167

### Adapter UTC x MIPT



15 - 21 x 3/4 MIPT	255169
21 - 27 x 3/4 MIPT	255344
27 - 34 x 3/4 MIPT	255345
27 - 34 x 1 MIPT	255196