

INTRODUCTION



Philmac, the global leader in the design and manufacture of plastic compression fittings, is proud to release a new addition to the innovative 3G Metric® range.

3G Metric® Copper is the next generation in poly to copper connections. Incorporating all the benefits of the innovative 3G Metric® range including the patented Slide & Tighten® technology, installation is now easier and faster than ever.

FEATURES AND BENEFITS

Fast and easy installation

- **Slide & Tighten® technology:** 3G Metric® Copper incorporates all the benefits of Philmac's unique Slide & Tighten® technology. Simply slide the pipe into the seal until you hit the stop then tighten the nut to the flange. Installation couldn't be faster or easier.
- **Compact design:** The size of the new Philmac 3G Metric® Copper compression fitting has been kept to a minimum, making the fitting ideal to use in confined areas. In addition to making connections with minimal turns of the nut, the design and size of the fitting means that in installations taking place between two fixed points, the manipulation of the pipe into the fitting becomes easy.

Complete security

- **Dynamic sealing method:** when doing up the nut, the mechanical advantage of the thread compresses the seal into position.
- **Visual stop:** The flange on the body of Philmac's 3G Metric® Copper compression fitting provides a visual stop to indicate when the nut is fully tightened. This removes any uncertainty from the installation process.

High performance

- **Made from advanced thermoplastic materials:** 3G Metric® Copper is manufactured from lightweight high performance thermoplastic materials with outstanding impact, UV, chemical and corrosion resistance. The material is non-toxic and taint-free.
- **Stainless steel grip ring:** the grip ring of the 3G Metric copper connection is made from high quality 316 stainless steel.

- **Rated to 1600 kPa:** 3G Metric® Copper is pressure rated to 1600 kPa (PN16) to meet the needs of high pressure systems.
- **50 year+ design life:** Built to withstand the toughest conditions to ensure longevity and durability, 3G Metric® Copper has a 50 year+ design life.
- **3G Metric® Copper** is rated for cold water applications only.

Complete coverage

- **Wide range:** The new 3G Metric® range includes straight joiners, tees and elbows pre-assembled. Connection kits are also available for joining ½" and ¾" copper to 16mm to 32mm PE pipe.

INSTALLATION INSTRUCTIONS



1. Cut PE or poly pipe square and insert until pipe stop is felt.



2. Tighten the nut by hand ensuring the nut flange is touching the fitting body, use a wrench if necessary.



3. Cut copper pipe square. The fitting is pre-assembled and ready to use. Mark the depth of copper insertion using 'pipe stop' marking or body flange as visual indicator. Remove any scale or burrs from the copper pipe.



4. Insert the copper pipe and push into the rubber seal up to the mark indicated.



5. Tighten the nut by hand and finish using a wrench. Remember to check that the nut is tight against the body flange.



6. Remember to replace the stainless steel grip ring if re-using the copper connection.