

**Connect with the
Next Generation.**



Philmac[®]

The connection you can trust.



Philmac is well renowned for quality products and services. Philmac manufactures pipe fittings and valves under a Quality Assurance System assessed and approved to ISO 9001. Philmac has a NATA accredited laboratory and tests fittings and valves to international and national standards. Third party accreditation is carried out by SAI Global.

**INTRODUCING THE 3G™
RANGE OF COMPRESSION
FITTINGS.**

Philmac, the global leader in the design and manufacture of plastic compression fittings, is proud to release the most innovative and revolutionary product of its kind.

3G™ is not just the new generation of PE pipe fittings – it is the next generation. The culmination of years of exhaustive research and development, utilisation of cutting-edge manufacturing technology and stringent testing, this new range of premium products represents Philmac's most exciting generation of plastic compression fittings.

Incorporating cutting edge technology, Philmac 3G™ fittings are easy to use and provide 230psi rated performance across the range. Importantly, the fittings have been manufactured from high performance, advanced thermoplastic materials so they are resistant to corrosion and have the strength and durability to provide a 50+ year service life.

With the 3G™ range, Philmac has created a common platform of fittings for all PE pipe applications in the North American market.

And the range is fully approved for potable water; meeting NSF and CSA standards.



CTS & IPS OD

3G™ compression fittings are not just the new generation of pipe fittings for CTS and IPS OD PE Pipes – they are the next generation. The culmination of years of exhaustive research and development, utilisation of cutting-edge manufacturing technology and stringent testing, this new range of premium products represents Philmac's most exciting generation of plastic compression fittings.

Featuring Philmac's unique Slide & Tighten™ technology, 3G™ compression fittings for CTS and IPS OD PE Pipes makes installation easy – no insert is required and no force is needed to push the pipe in. And a visual stop reduces the risk of overtightening.

Importantly, the fittings have been manufactured from high performance, advanced thermoplastic materials so they are resistant to corrosion and have the strength and durability to provide a 50+ year service life.

The 3G™ range of plastic compression fittings are the product of Philmac's unrelenting commitment to continuous improvement and a culture based on innovation and ingenuity.

3G™ BENEFITS

Fast and easy installation

- **Slide & Tighten™ technology:** 3G™ compression fittings incorporate all the benefits of Philmac's unique Slide & Tighten™ technology. No pipe preparation is needed and no force is required to push the pipe past the seal, so installation couldn't be faster or easier. Simply insert the pipe into the fitting until the first point of resistance is felt, and then tighten the nut. Assembly is so easy you can even do it under live conditions. Also, there is no need to disassemble the fitting before use because 3G™ compression fittings are supplied pre-assembled and ready to use.
- **Compact design:** The size of the new Philmac 3G™ 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 fittings means that in installations taking place between two fixed points, the manipulation of the pipe into the fitting becomes easy.
- **Easy disassembly:** The fitting has been designed so the split collet is released as soon as the nut is backed off, making disassembly easy.

Complete security

- **Visual stop:** The flange on the body of the 3G™ compression fitting provides a visual stop to indicate when the nut is fully tightened. This removes any uncertainty from the installation process and eliminates the risk of over-tightening.
- **No loose components:** If the nut is removed there is no danger of losing components, as the collet and seal ring are retained in the body of the fitting. Losing components in the trench becomes a thing of the past.
- **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.
- **Designed to minimize pipe twist:** The fitting has been designed to minimize pipe twist as the nut is tightened. Maximum pipe twist is approximately a quarter turn compared to one and a half turns with many other fittings. Pipe twist can impact on not only the connection you have just made but also on the connection at the other end of the line.
- **Approvals:** Philmac 3G™ compression fittings are CSA and NSF approved for potable water use.

High performance

- **Made from advanced thermoplastic materials:** 3G™ compression fittings are manufactured from lightweight high performance thermoplastic materials which, unlike metal fittings, resist corrosion, therefore significantly minimizing maintenance, repairs and long-term costs. The materials are non-toxic and taint-free and also offer outstanding impact, UV and chemical resistance.
- **Rated to 230psi:** 3G™ compression fittings are pressure rated to 230psi to meet the needs of high pressure systems.
- **50 year+ design life:** Built to withstand the toughest conditions to ensure longevity and durability, 3G™ compression fittings have a 50 year+ design life.

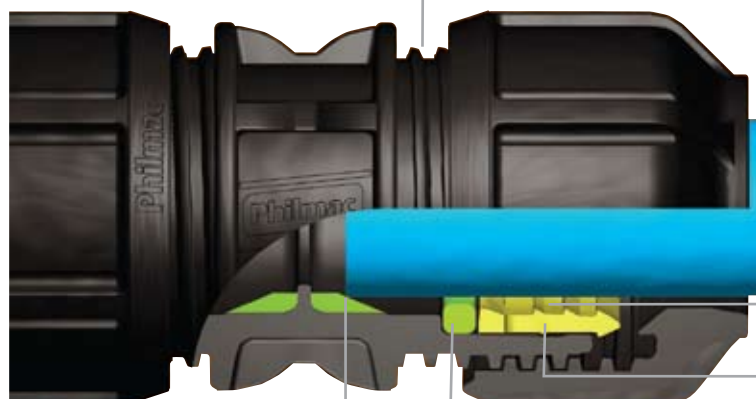
Complete coverage

- **Wide range:** The new 3G™ compression fittings range is comprehensive: straight and reducing couplers, tees, elbows, male and female adapters and caps ranging from 3/4" to 2".
- **Copper connection kits:** Philmac's all new carborundum gripper design has been introduced into the 3G™ copper connection kit. With no steel components in the gripping mechanism, there is absolutely no risk of electrolysis.



HOW IT WORKS

FULLY OPEN



Fitting is pre-assembled ready to use in the open position with 2 threads showing.

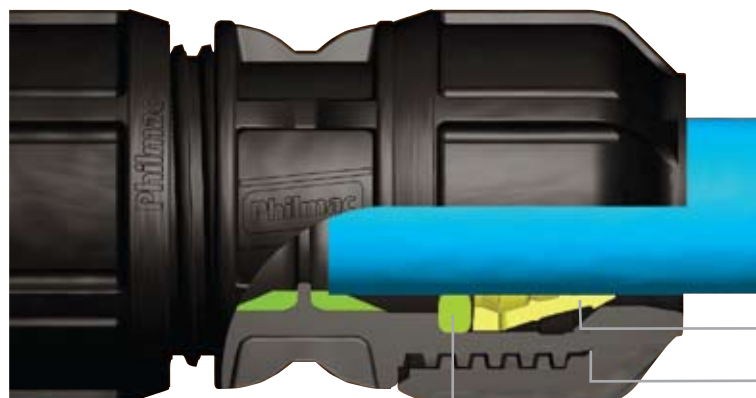
Clearance between the pipe and fitting allows for easy insertion of the pipe.

Split collet, which is in relaxed position.

Seal, which is in relaxed position.

The pipe sits against the tapered wedges which minimizes pipe rotation.

FULLY CLOSED



Split collet bites into the pipe providing end load resistance.

Positive internal stop when nut meets flange of the body.

Nut and then split collet has fully compressed the seal. Seal ring compression is achieved by exploiting the mechanical advantage of the nut thread.

ID SERIES

3G™ ID Series compression fittings represent the next generation of Philmac fittings for ID Series pipe.

Offering complete flexibility, this one fitting connects to all types of ID Series pipe, thereby eliminating the need to carry dedicated fittings.

Installation is easy with a simple to use insert assembly, and the fitting allows for straightforward disconnection and reconnection.

Importantly, the fitting has been manufactured from high performance, advanced thermoplastic materials so it is resistant to corrosion and has the strength and durability to provide a 50+ year service life.

The 3G™ ID Series plastic compression fitting is the product of Philmac's unrelenting commitment to continuous improvement and a culture based on innovation and ingenuity.

3G™ BENEFITS

Flexibility

- **Universal fitting:** The 3G™ ID Series compression fitting connects to all types of ID series pipe (75, 100, 125, 160 and 200). There is no need for dedicated fittings for different pipe so you can be sure you will always have the right fitting for the job.

Fast and easy installation

- **Insert assembly:** Installation involving double-ended products is made easy with 3G™ ID Series compression fittings, as the installer can simply hammer the insert in separately to each end of the pipe. This is far easier than other fittings which involve difficult manipulation of the barb assembly at one end of the connection.
- **Easy disassembly:** The 3G™ ID Series compression fitting enables the joint to be easily disconnected and reconnected. Simply by loosening the nut and taking the insert out of the body of the fitting, the pipe can be freed. This is a real advantage when the pipe is connected to a pump or other piece of equipment which may require relocation or disconnection.

Complete security

- **Approvals:** Philmac 3G™ compression fittings are CSA and NSF approved for potable water use.

High performance

- **Made from advanced thermoplastic materials:** 3G™ ID Series compression fittings are manufactured from lightweight high performance thermoplastic materials which, unlike metal fittings, resist corrosion, therefore significantly minimizing maintenance, repairs and long-term costs. The materials are non-toxic and taint-free and also offer outstanding impact, UV and chemical resistance.
- **Rated to 230psi:** 3G™ compression fittings are pressure rated to 230psi to meet the needs of high pressure systems.
- **50 year+ design life:** Built to withstand the toughest conditions to ensure longevity and durability, 3G™ compression fittings have a 50 year+ design life.

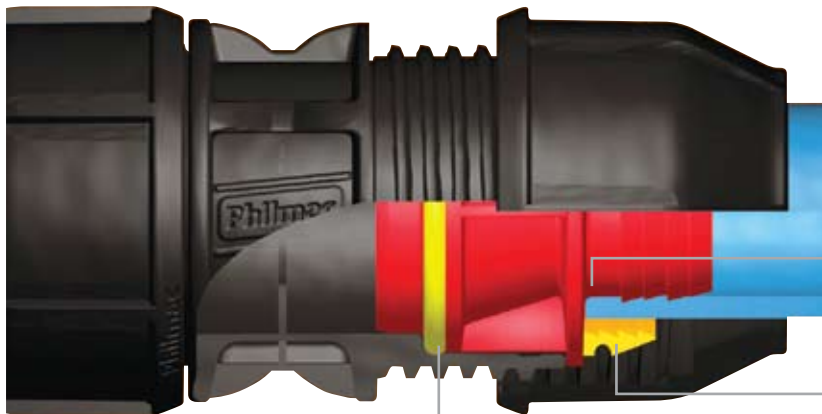
Complete coverage

- **Wide range:** The new 3G™ compression fitting range is comprehensive and includes straight and reducing couplers, tees, elbows, male and female adapters and caps ranging from ½" to 2".



HOW IT WORKS

FULLY OPEN



Insert fully installed into the pipe up to the shoulder of the insert.

Split collet is in the relaxed position

Insert with seal ring attached has been pushed back into the fitting body.

FULLY CLOSED



Split collet bites into the pipe providing end load resistance

Seal ring is compressed against the inside face of the fitting to provide a seal.

KITEC XPA

3G™ Kitec XPA compression fittings are not just the new generation of PE pipe fittings for Kitec XPA pipes – they are the next generation.

Featuring Philmac's unique Slide & Tighten™ technology, 3G™ Kitec XPA compression fittings make installation easy – no insert is required and no force is needed to push the pipe in. And with an internal seal cap, the fitting provides complete security and protection against corrosion of the Kitec XPA pipe.

Importantly, the 3G™ Kitec XPA compression fitting has been manufactured from high performance, advanced thermoplastic materials so it's resistant to corrosion and has the strength and durability to provide a 50+ year service life.

The 3G™ Kitec XPA range of plastic compression fittings are the product of Philmac's unrelenting commitment to continuous improvement and a culture based on innovation and ingenuity.

3G™ BENEFITS

Fast and easy installation

- **Slide & Tighten™ technology:** 3G™ Kitec XPA compression fittings incorporate all the benefits of Philmac's unique Slide & Tighten™ technology. No force is required to push the pipe into the seal, so installation couldn't be faster or easier. Simply re-round the pipe, insert it into the fitting until the first point of resistance is felt, and then tighten the nut. Assembly is so easy you can even do it under live conditions. Also there is no need to disassemble the fitting before use because the 3G™ Kitec XPA compression fittings are supplied pre-assembled and ready to use.
- **Compact design:** The size of the new Philmac 3G™ Kitec XPA 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.
- **Easy disassembly:** The fitting has been designed so the split collet is released as soon as the nut is backed off, making disassembly easy.

Complete security

- **Internal seal cap:** Philmac 3G™ Kitec XPA compression fittings come with a unique internal seal cap. This acts to not only provide superior sealing performance, but also to protect the cut end of the Kitec XPA pipe from exposure to water and therefore corrosion.
- **Visual stop:** The flange on the body of the 3G™ Kitec XPA compression fitting provides a visual stop to indicate when the nut is fully tightened. This removes any uncertainty from the installation process and eliminates the risk of over-tightening.
- **No loose components:** If the nut is removed there is no danger of losing components, as the collet and seal ring are retained in the body of the fitting. Losing components in the trench becomes a thing of the past.
- **Designed to minimize pipe twist:** The fitting has been designed to minimize pipe twist as the nut is tightened. Maximum pipe twist is approximately a half turn compared to one and a half turns with many other fittings. Pipe twist can impact on not only the connection you have just made but also on the connection at the other end of the line.
- **Approvals:** Philmac 3G™ Kitec XPA compression fittings are CSA and NSF approved for potable water use.

High performance

- **Made from advanced thermoplastic materials:** 3G™ Kitec XPA compression fittings are manufactured from lightweight high performance thermoplastic materials which, unlike metal fittings, resist corrosion, therefore significantly minimizing maintenance, repairs and long-term costs. The materials are non-toxic and taint-free and also offer outstanding impact, UV and chemical resistance.
- **Rated to 230 psi:** 3G™ Kitec XPA compression fittings are pressure rated to 230 psi to meet the needs of high pressure systems.
- **50 year+ design life:** Built to withstand the toughest conditions to ensure longevity and durability, 3G™ Kitec XPA compression fittings have a 50 year+ design life.

Complete coverage

- **Wide range:** The new 3G™ Kitec XPA compression fittings range is comprehensive: straight and reducing couplers, elbows and male and female adapters ranging from ½" to 1".



HOW IT WORKS

FULLY OPEN



Fitting is pre-assembled ready to use in the open position with 2 threads showing.

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

Split collet, which is in relaxed position.

Seal, which is in relaxed position.

The pipe sits within the internal seal.

FULLY CLOSED



Split collet bites into the pipe providing end load resistance.

Positive internal stop when nut meets flange of the body.

Nut and then split collet has fully compressed the seal. Seal ring compression is achieved by exploiting the mechanical advantage of the nut thread.

Seal ring is compressed against pipe surface and inside of fitting to provide an effective seal and prevent corrosion.

RANGE



APPROVALS

The Philmac 3G™ range of compression fittings are CSA and NSF approved for potable water use.



DIVERSE APPLICATIONS

Philmac products are used in diverse applications, from rural well systems, holiday house and cottage pumps, municipal water applications, irrigation water supply and plumbing.



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