



Solutions to
Shape the World™

Reliance
Worldwide
Corporation

Fast, reliable and efficient solutions...

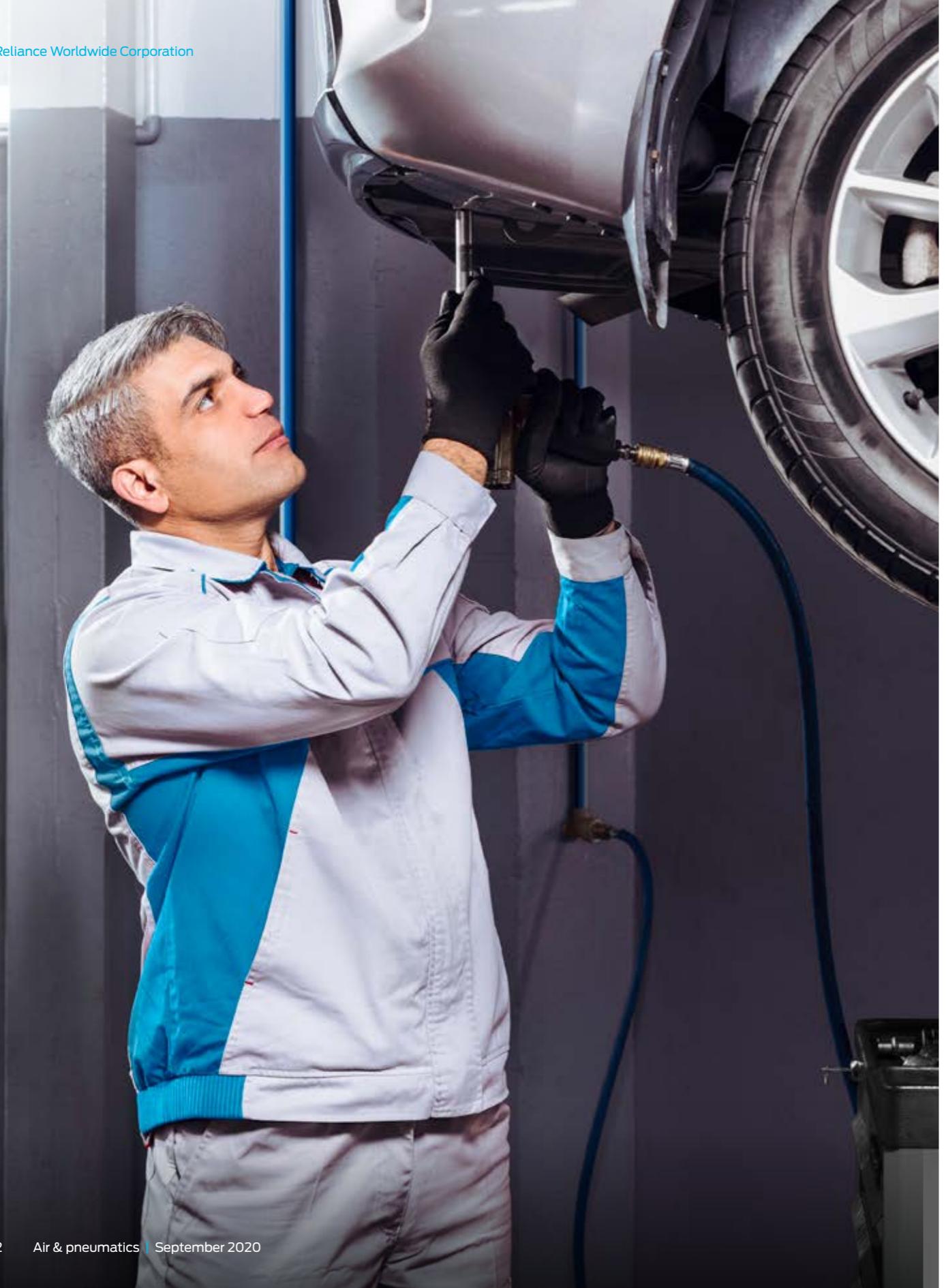
for compressed air
and pneumatics



John Guest®



SharkBite®



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Welcome to our comprehensive range of pipes and fittings for compressed air and pneumatics.

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One family of brands

Reliance Worldwide Corporation (RWC) and its family of brands transform the way pipe connections are made across the globe for a diverse range of sectors such as compressed air & pneumatics, plumbing & heating, drinks dispense, telecoms and automotive.



of brands

Millions of connections made worldwide

Both market leaders and niche players have been using our push-fit technology for more than five decades to solve the key challenges they face. Why? Because the clever science behind our solutions ensure optimal performance, while providing fast, simple and reliable installation.

Precision engineering and world-class quality

Innovative design is at our core. It means clever, time-saving solutions for you, engineered with lasting quality you can rely on. From state-of-the-art R&D to world-class product testing and quality control, our innovations are the by-product of pure engineering mastery. The same ethos drives our customer service and design service, ensuring we provide expert support whenever you need it.



Fast, reliable and efficient solutions

for air and pneumatics

Together John Guest and SharkBite offer an extended range of reliable, sustainable and efficient push-fit fittings and pipes for compressed air and pneumatics.

Available in 3 to 54mm sizes, our high performance air piping systems are fast and easy to install and deliver substantial labour and energy savings when compared to traditional methods.



Optimal flow and air quality

Outperforming steel or copper, which can degrade over time, our range of products resist corrosion ensuring optimal flow and air quality, while extending system and equipment lifecycle and efficiency.

Ultimate performance and efficiency

Since inventing the world's first push-fit compressed air fitting over 45 years ago, we have continued to perfect our design and unique sealing technology to reduce energy consumption, increase air flow and eliminate pressure drops and leaks.

System set up in half the time

Fast and simple to use, our air piping systems reduce installation time by up to 50% when compared to

conventional methods. Using an instant push-fit action, connections are made without tools or the need to thread, solder or glue pipes.

Alter, extend or modify in seconds

Our components are easy to disconnect, reusable and interchangeable, making layout modifications quick and simple with minimal production downtime and expense.

Greater choice and design freedom

Plastic and brass push-fit fittings and lightweight pipe that is easier to handle than copper and steel. Components can be used in many combinations and are also compatible with other types of pipe.





Make reliable connections **the fast and simple way**

For small to mid-size commercial applications

Quick and easy to install, the John Guest Air & Pneumatics push-fit range ensures air tight pipe connections are made. Available in 3 to 28mm sizes, our robust range of fittings and pipes are ideal for small to mid-size applications such as garages and a variety of other commercial air piping systems.

John Guest offers rapid assembly using a simple push-fit action that eliminates the need for tools, threaded pipe, solvent and glue. Our unique collet locking design firmly and securely holds the pipe in place without deforming the pipe or restricting flow. John Guest air

systems are easy to extend or alter as fittings are fully demountable, without using tools, which reduces maintenance and production downtime.

Fittings are available in tough engineered plastic or brass, including a unique water trap that removes moisture from the air line to improve system performance and longevity.

Designed to work with our nylon, powder coated aluminium pipe or LLDPE pipe, our versatile solution is also compatible with copper, PEXa and other soft metal pipes.

Features

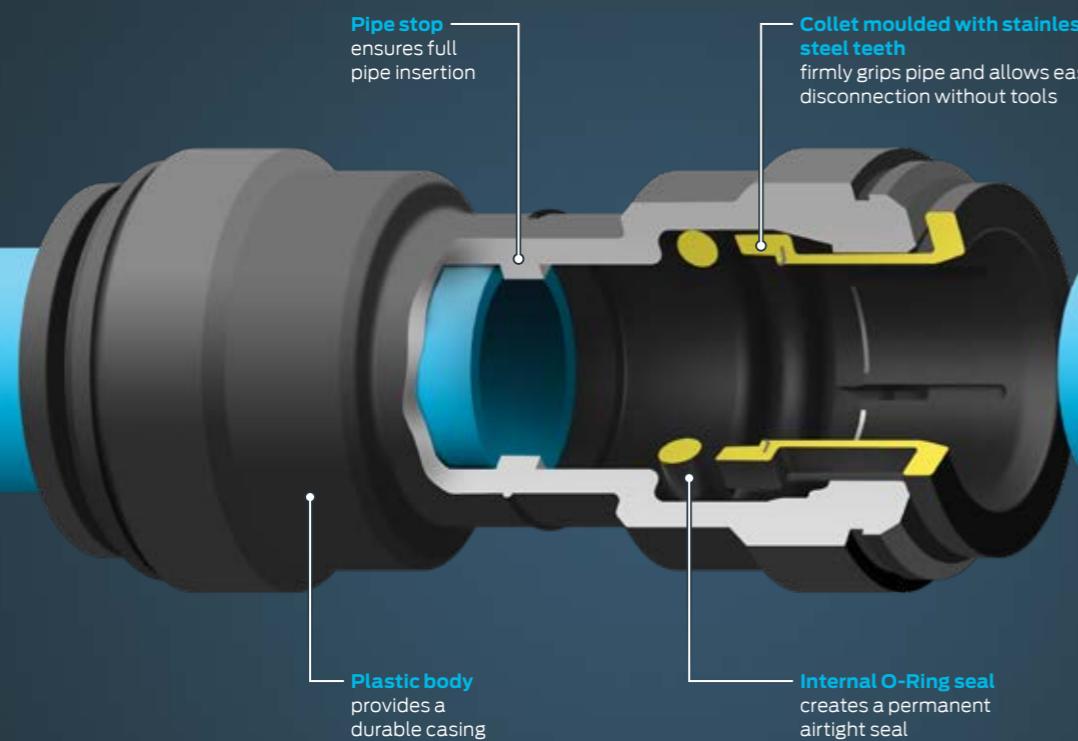
- Acetal copolymer or brass fittings
- Push-fit connection ends
- Demountable design without using tools
- Secure collet cover to prevent accidental disconnection
- Nitrile O-Ring and collet with stainless steel teeth
- Suitable for air and vacuum applications up to 10 bar

Benefits

- Reliable leakproof solution that grips before it seals
- Instant, tool-free push-fit connection
- Corrosion-free solution that extends equipment lifecycle and reduces maintenance
- Fast and simple system alterations or extension, with minimal downtime
- Lightweight and easy to handle material
- A versatile solution that connects to metal or plastic pipe

Inside John Guest technology

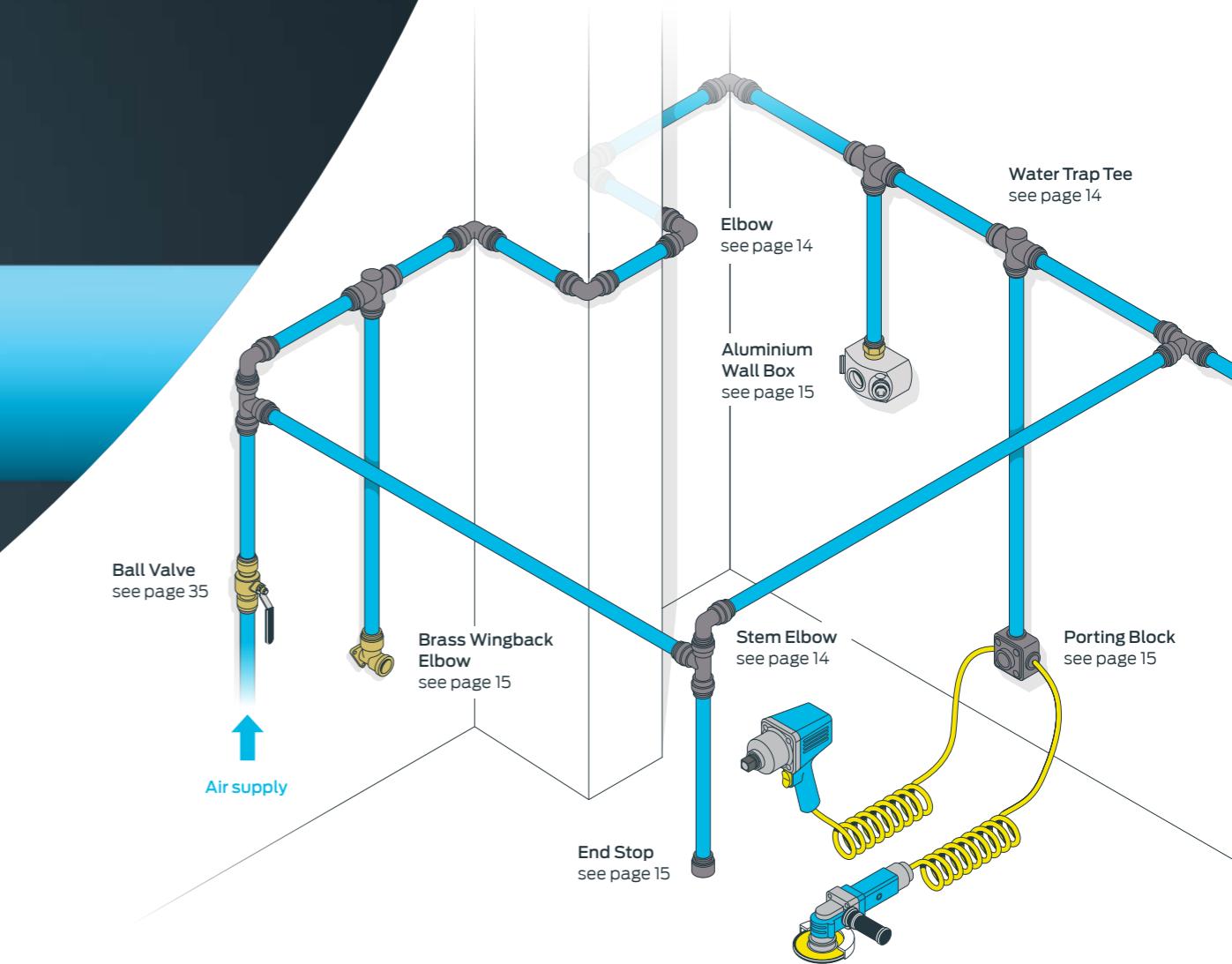
John Guest push-fit fittings use grip and seal technology. The collet with stainless steel teeth grips the pipe and the O-Ring provides an airtight seal.



Fitting
the Future™

Air system configuration

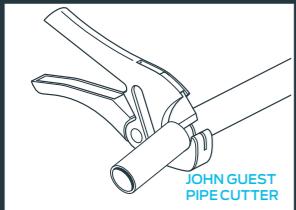
The John Guest Air & Pneumatics system offers rapid assembly from the compressor to air line, through to the complete ring main and take off points.



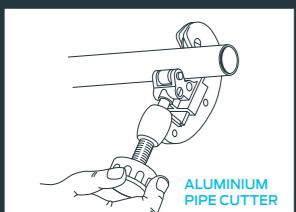
Making a connection

Connecting push-fit

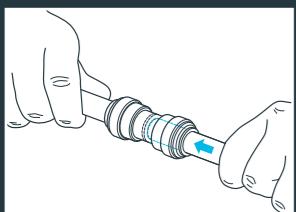
Cutting the pipe



Cut the pipe square. Ideally use a John Guest pipe cutter for rigid nylon pipe and aluminium pipe cutters for aluminium pipe. To avoid damage to the O-Ring remove any burrs and sharp edges.

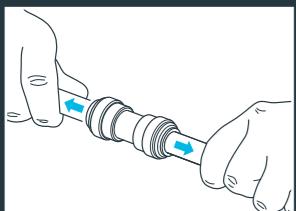


Making the push-fit connection



Push the pipe up to the pipe stop.

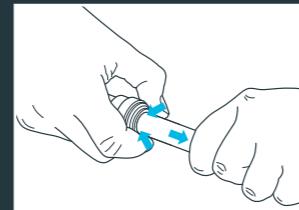
Check the connection is secure



Pull to check a secure connection is made. Test the system before use.

Demounting push-fit

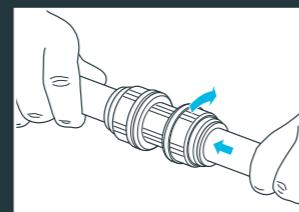
Demounting push-fit fittings



To disconnect, ensure the system is depressurised. Push the collet towards the fitting and remove the pipe. Fittings are reusable.

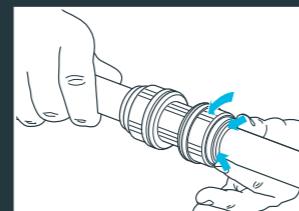
Connecting and demounting screw cap

Connecting screw cap fittings



After inserting the pipe, a ¼ turn of the screw cap locks the collet in place and reduces lateral and sideway movement of the pipe.

Demounting screw cap fittings



To disconnect, ¼ turn the screw cap, push the collet and remove the pipe. Fittings are reusable.



Nylon, aluminium and copper pipe

Whilst we recommend the use of John Guest Rigid Nylon Pipe, John Guest fittings can also be used with copper or aluminium pipe.

Air & pneumatics

LLDPE pipe

Accessories

1/4" OD 0.17" ID - 1000ft Coils

Part number	Colour
PE-08-BI-1000F-N	Natural
PE-08-BI-1000F-B	Blue
PE-08-BI-1000F-R	Red
PE-08-BI-1000F-E	Black
PE-08-BI-1000F-W	White
PE-08-BI-1000F-Y	Yellow
PE-08-BI-1000F-O	Orange

Products shown in blue have a minimum order quantity of 25 coils.

5/16" OD 0.187" ID - 500ft Coils

Part number	Colour
PE-10-CI-0500F-N	Natural
PE-10-CI-0500F-B	Blue
PE-10-CI-0500F-R	Red
PE-10-CI-0500F-E	Black
PE-10-CI-0500F-W	White
PE-10-CI-0500F-G	Green
PE-10-CI-0500F-Y	Yellow
PE-10-CI-0500F-O	Orange

Products shown in blue have a minimum order quantity of 50 coils.

3/8" OD 0.25" ID - 500ft Coils

Part number	Colour
PE-12-EI-0500F-N	Natural
PE-12-EI-0500F-B	Blue
PE-12-EI-0500F-R	Red
PE-12-EI-0500F-E	Black
PE-12-EI-0500F-W	White
PE-12-EI-0500F-G	Green
PE-12-EI-0500F-Y	Yellow
PE-12-EI-0500F-O	Orange

Products shown in blue have a minimum order quantity of 50 coils.

1/2" OD 0.375" ID - 250ft Coils

Part number	Colour
PE-16-GI-0250F-N	Natural
PE-16-GI-0250F-B	Blue
PE-16-GI-0250F-R	Red
PE-16-GI-0250F-E	Black
PE-16-GI-0250F-W	White
PE-16-GI-0250F-G	Green
PE-16-GI-0250F-Y	Yellow
PE-16-GI-0250F-O	Orange

Products shown in blue have a minimum order quantity of 50 coils.

Minimum order quantities

Popular items highlighted in black are generally in stock and available in minimum order quantities of 2 coils. Items listed in blue are non-standard and are subject to minimum order quantities unless in stock and will incur longer lead time.

Imperial sizes also available on application.

Collet Covers

The slip-on Collet Cover prevents accidental pipe removal or tampering. The pipe can be inserted with the Collet Cover already attached to the fittings or the cover can slide into position afterwards. The cover is easily removed when required and comes in a variety of colours for colour coding. Colours available – Suffix indicates colours E = Black Y = Yellow B = Blue R = Red S = Grey G = Green

Collet Cover (Imperial)



Products shown in blue have a minimum order quantity of 25 coils.

Locking Clip



Collet Cover (Metric)



3/8" OD 0.25" ID - 500ft Coils

Part number	Colour
PE-12-EI-0500F-N	Natural
PE-12-EI-0500F-B	Blue
PE-12-EI-0500F-R	Red
PE-12-EI-0500F-E	Black
PE-12-EI-0500F-W	White
PE-12-EI-0500F-G	Green
PE-12-EI-0500F-Y	Yellow
PE-12-EI-0500F-O	Orange

Products shown in blue have a minimum order quantity of 50 coils.

1/2" OD 0.375" ID - 250ft Coils

Part number	Colour
PE-16-GI-0250F-N	Natural
PE-16-GI-0250F-B	Blue
PE-16-GI-0250F-R	Red
PE-16-GI-0250F-E	Black
PE-16-GI-0250F-W	White
PE-16-GI-0250F-G	Green
PE-16-GI-0250F-Y	Yellow
PE-16-GI-0250F-O	Orange

Products shown in blue have a minimum order quantity of 50 coils.

Tube Insert



Collet Locking Tool



Tube Insert



Tube Insert



Plug



Tube Insert



Heavy Duty Pipe Cutter



Pipe Cutter





Create an efficient **high performance solution**

For small to large commercial and industrial applications

The SharkBite Air & Pneumatics push-fit range provides fast, simple and reliable pipe connections. Available in 10 to 54mm sizes, the robust brass-body fittings can withstand high pressure and a range of system requirements, making it ideal for small to large commercial and industrial applications.

Suitable for use from the compressor to the point of use, we offer a wide range of fittings and anodised aluminium pipe, including a 45° elbow for improved air flow.

Using a simple push-fit action, pipes are instantly joined without the need for tools, silicon, hot works, solder or glue. Fittings can also be disconnected with a secure demounting tool, making system extensions and modifications quick and easy.

Designed to securely grip our range of anodised aluminium pipe, SharkBite is also compatible with powder coated aluminium, copper, PEXa and nylon pipes.

Features

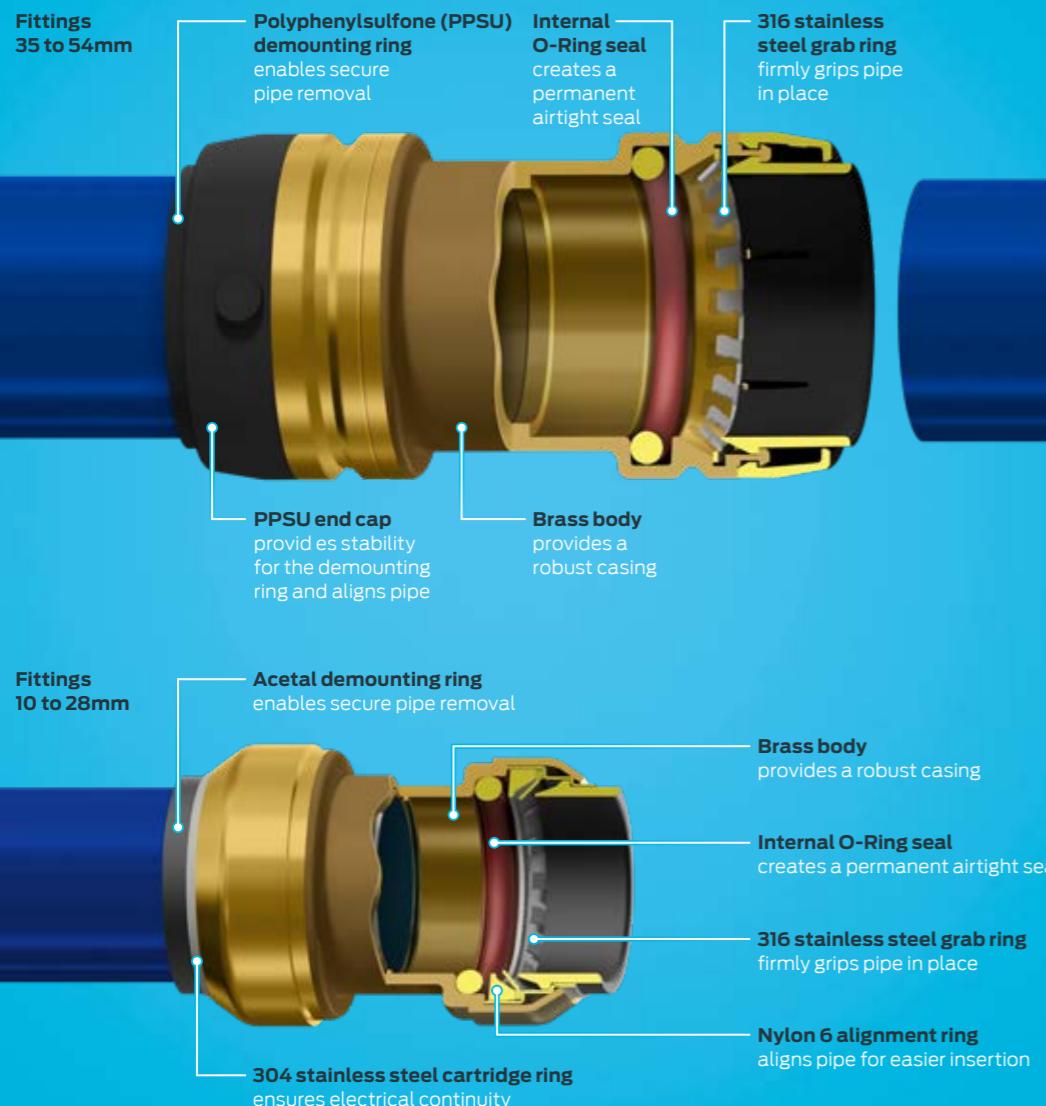
- Engineered brass body
- Push-fit connection ends
- Tamperproof secure demounting tool
- Nitrile O-Ring and stainless steel grab ring
- Suitable for air and vacuum applications up to 20 bar

Benefits

- Reliable leakproof solution that withstands high pressure
- Instant, tool-free, push-fit connection with no hot works, silicon, solvent or glue
- Corrosion-free solution that extends equipment lifecycle and reduces maintenance
- Quick and easy system reconfiguration and extension, with minimal downtime
- Lightweight and easy to handle material
- A versatile solution that connects to metal or plastic pipe

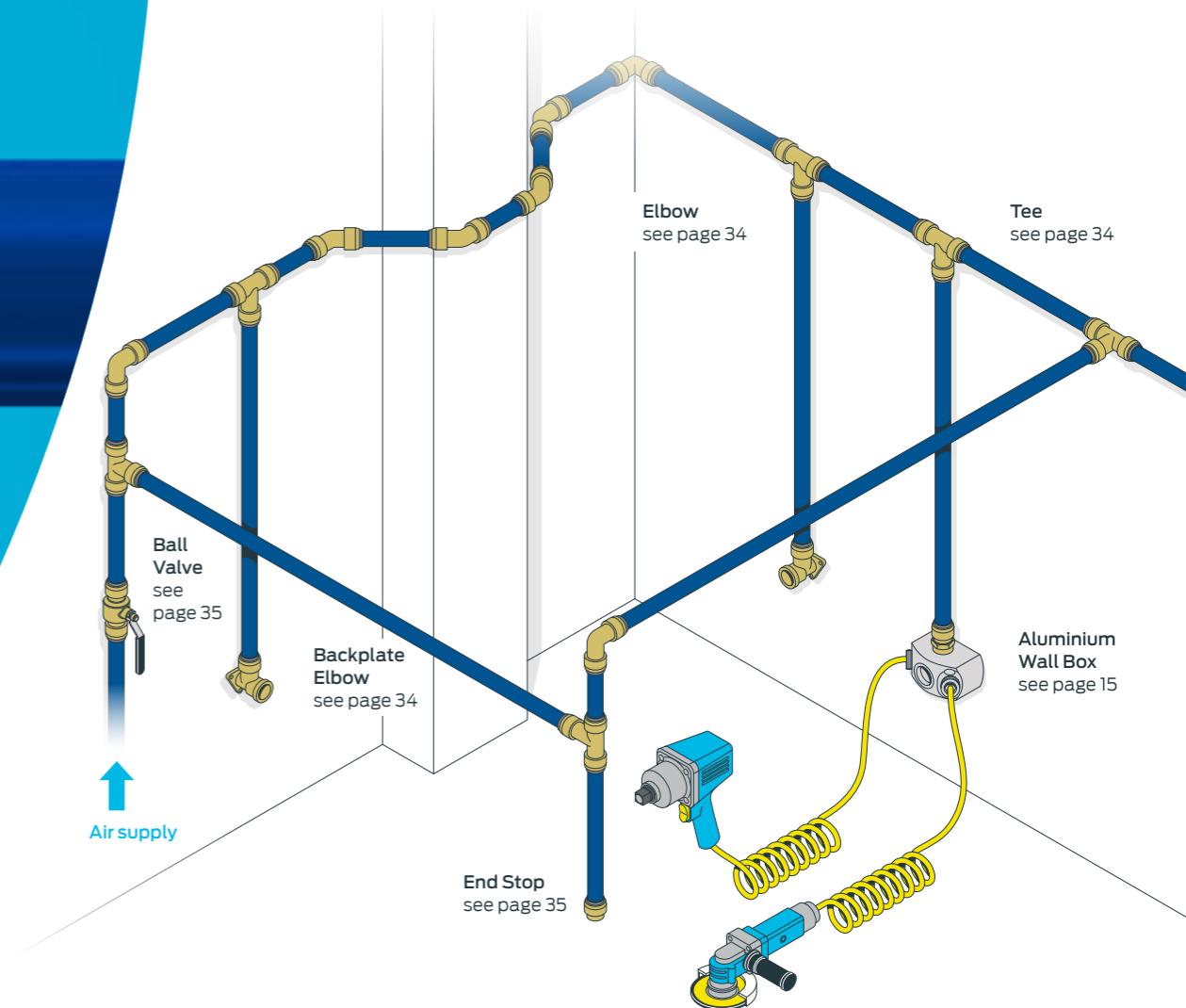
Inside SharkBite technology

SharkBite push-fit fittings use grip and seal technology. The stainless steel grab ring grips the pipe and the O-Ring provides an airtight seal.



Air system configuration

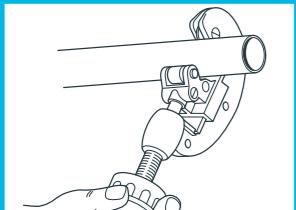
The SharkBite Air & Pneumatics system offers rapid assembly from the compressor to air line, through to the complete ring main and take off points.



Making a connection

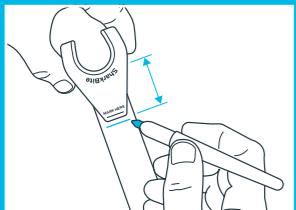
Connecting push-fit

Cutting the pipe



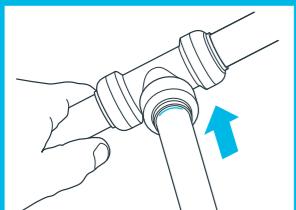
Cut the pipe square using a rotary pipe cutter and then debur using a SharkBite Depth/Deburring tool. There should be no burrs or sharp edges on the pipe end as this can damage the O-Ring during pipe insertion.

Measure the depth



Using the appropriate Depth Marker Demounting Clip or tape measure, mark the insertion depth onto the pipe.

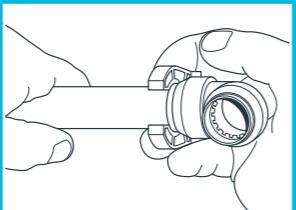
Making the connection



Align the pipe squarely with the fitting de-mounting ring and push the pipe into the fitting with a slight twist until the pipe reaches the pipe stop. If using plastic pipe, use a liner if specified by the pipe manufacturer.

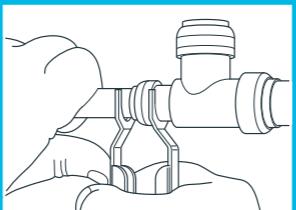
Demounting push-fit

Demounting 10-28mm with clip



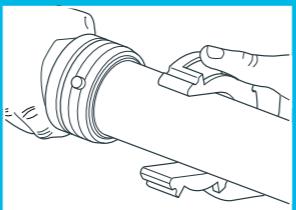
Holding the fitting in the palm of the hand, snap the demounting clip over the pipe, with the SharkBite logo away from the fitting. Slide the clip up to the demounting ring and press firmly on the two 'finger pads', while simultaneously twisting and pulling the pipe to release.

Demounting 10-28mm with tongs



Position the tongs over the fitting and pipe with the SharkBite logo facing away from the fitting. Squeeze the tongs together, while gripping the pipe in the other hand, simultaneously twist and pull the pipe to remove, if necessary. Use the thumb as a lever to assist release.

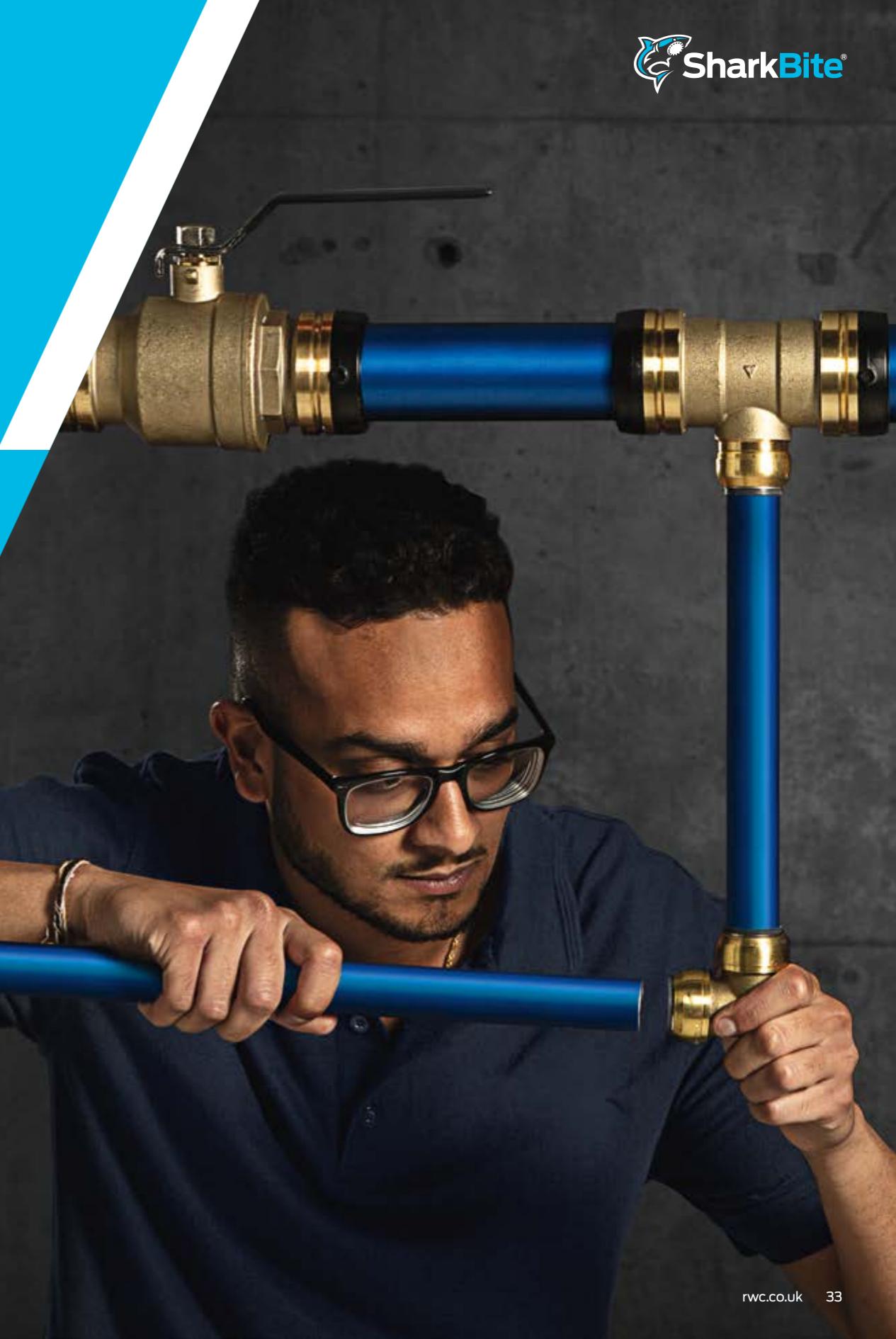
Demounting 35-54mm UXL



Snap the demounting clip over the pipe and locate the clip slots over the two studs in the end cap. Rotate the clip clockwise by 10° until it locks, then twist and pull the pipe from the fitting.

Note

SharkBite fittings utilise a PTFE coated O-Ring. This coating is semi-permanent and multiple pipe insertions/de-mountings will remove this coating, making pipe insertion harder.



Key information

Condition of sale

All purchases are subject to our standard terms and conditions of sale, which can be found on johnquest.com (John Guest Air & Pneumatics products) and rwc.co.uk (SharkBite Air & Pneumatics products).

Technical information

RWC and its family of products are specifically designed and manufactured to the technical specifications set out in our Technical Specification Guides on our websites.

All products should be selected, used and maintained in accordance with these technical specifications and checklists. It is the end users responsibility to ensure that products are suitable for their intended application, are properly installed and maintained, and are used in accordance with our technical guides.

RWC operates a programme of continuous product development, and therefore reserves the right to modify or amend the specification of our products without notice. All information in this publication is given in good faith and believed to be correct at the time of going to print.

Maintenance & replacement intervals

Our fittings generally require little maintenance but as a minimum we recommend routine visual inspection. Frequency of visual inspection will depend on the application and risk of failure. If after inspection, a product appears to be damaged, cracked, charred, discoloured, heat distorted, corroded or leaking, the product should be replaced.

Product life cycle is affected by the severity of the application, the hostility of the working environment and contact with aggressive chemicals or liquids. It is important that replacement intervals are considered by customers based on previous service life or when failure could result in unacceptable downtime, damage or risk of injury.

Orders & enquiries

01895 449233

Call our sales team to discuss pricing, product selection and special requirements.





**Reliance Worldwide
Corporation (UK) Limited**

Horton Road
West Drayton
UB7 8JL
United Kingdom
Tel: +44 (0) 1895 449233

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