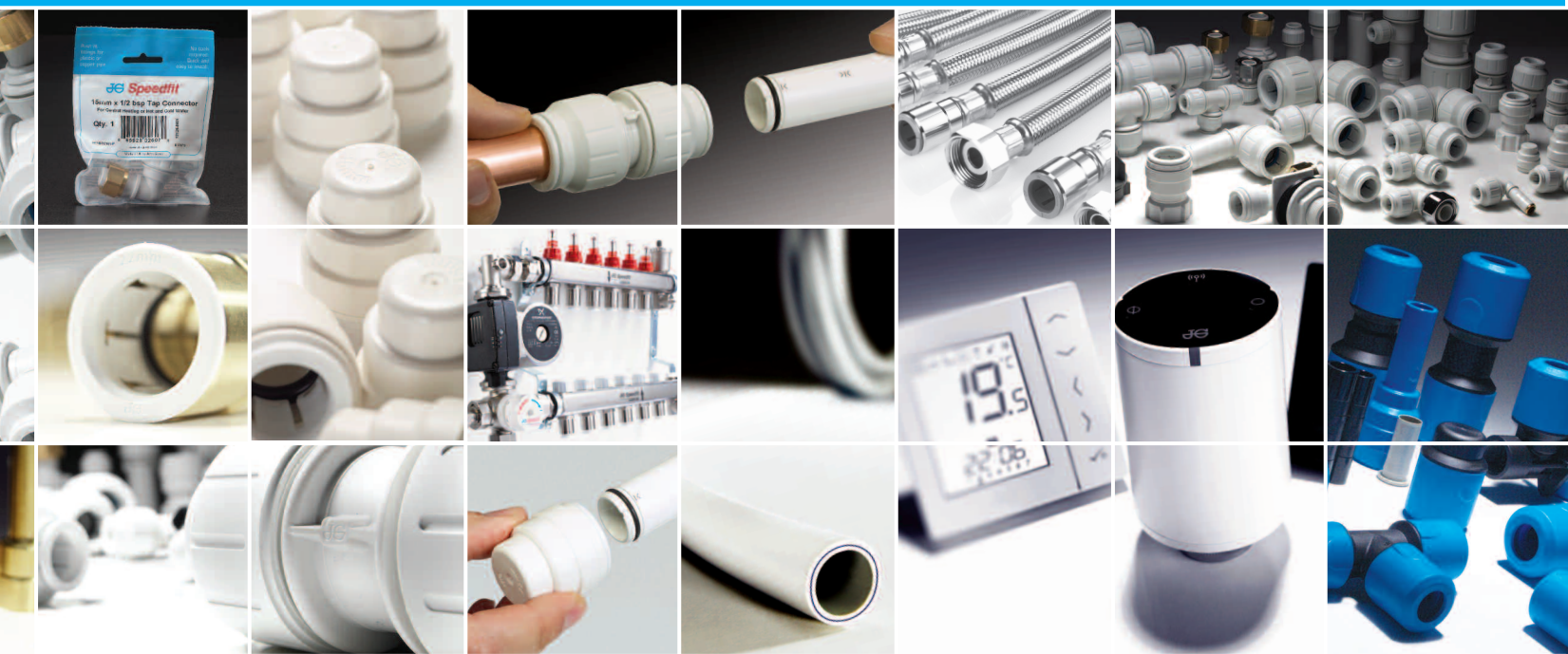


JE Speedfit®

THE PUSH-FIT SOLUTION FOR PLUMBING & HEATING SYSTEMS

Speedfit Fittings are suitable for use with copper pipe.



Includes this NEW addition:


underfloor heating controls
Ultimate control at your fingertips

UK Trade List
OCTOBER 2015

Worldwide Connections

The John Guest Group has a long established reputation as a world leading manufacturer of push-fit fittings, tube and other fluid control products. A reputation built on producing consistently high quality products with an ongoing commitment to value engineering and product development.



Quality Manufacture

A commitment to quality is at the heart of the John Guest Philosophy.

The strictest control is maintained by virtue of the fact that design and manufacture is carried out in modern purpose built manufacturing centres in West London and at Maidenhead in Berkshire.

Maintaining control over the whole process from initial tool design and tool making through to final assembly and testing ensuring that only products of the highest quality are produced.

The company believe it is this commitment to quality that has led to it receiving prestigious awards from many of the world's leading testing and approvals organisations.

John Guest is a preferred supplier to many international companies.



Speedfit PEX Fittings and Barrier Pipe.
K24076, K24077 and K24078.



GUARANTEE

As a result of long term test programmes and rigorous quality standards, John Guest Speedfit Limited offer a 25 year guarantee against the defects in materials or manufacturing of 'PEM', 'PSE' and 'SFM' Range Plumbing Fittings and Speedfit Barrier Pipe manufactured by John Guest.

John Guest Underfloor Heating Products, Brass Manifolds and Radiator Valves, which should be installed and maintained in accordance with our recommendations, carry a 2 year guarantee from date of delivery against defects in materials and manufacture.

John Guest Plumbing and Heating Products are for use with normal UK domestic plumbing and heating systems and supplied in accordance with our Conditions of Sale.



Contents

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| How Speedfit Works <i>Pages 7 and 10</i> | | JG Speedfit Underfloor Heating and Speedfit Support <i>Page 33</i> | |
| White Push-fit Fittings <i>Pages 11 and 12</i> | | Manifolds and Fixing Systems <i>Page 34</i> | |
| Brass Fittings and Valves <i>Pages 13 and 14</i> | | JG Aura Wireless Underfloor Heating Controls <i>Page 35</i> | |
| Pipe and Accessories Layflat Barrier Pipe <i>Pages 15 and 16</i> | | JG Aura Wireless Thermostatic Radiator Valve <i>Page 36</i> | |
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| Speedfit Blue Fittings for MDPE <i>Pages 25 and 26</i> | | | |

THE PUSH-FIT SOLUTION FOR PLUMBING AND HEATING SYSTEMS

JG Speedfit is a push-fit system suitable for the plumbing of domestic hot and cold water services and central heating applications, including pressurised and combi systems.

The System is approved by the British Board of Agrément and the Water Regulations Advisory Scheme. Speedfit 'PEM' fittings and PEX and Polybutylene Barrier Pipe are Kitemarked to BS7291 Parts 1, 2 and 3 Class S Licence No KM39767. Performance specifications are well within those required for most central heating and water supply systems including:

- Mains fed and indirect cold water systems
- Vented and unvented hot water systems
- Vented central heating systems
- Sealed central heating systems provided temperatures and pressures comply with BS7291 Parts 1, 2 and 3 Class S
- Underfloor heating

Extensive tests have shown that Speedfit products will withstand temperatures and pressures well in excess of normal working conditions.

Speedfit should be installed to conform with good plumbing practice.

Speedfit should not be used for gas, fuel oil or compressed air applications.



Speedfit Support's national team of technical engineers is available to help you get the best from your Speedfit System, be it assistance or advice.

Their service includes a free underfloor heating estimate, onsite installation advice, a technical helpline and a free CAD design service.

Technical Help Desk: 01895 425333
8am to 5pm Monday through Friday



Onsite Installation Advice



Free Design Service



Online Estimator



Technical Helpline



Online Info

SPECIAL APPLICATIONS

Boats. The flexibility of the Speedfit System ensures it can be cabled easily around the interior and hidden from view.

Caravans. Speedfit is ideal for caravan installations due to its flexibility and its resistance to corrosion and freezing.

Exhibitions. The unique ability of the Speedfit System to be easily demounted and reused, together with its flexibility, makes Speedfit ideal for this application.

Agricultural and Horticultural. Speedfit has many applications in agricultural and horticultural environments.

Portable Buildings (site cabins, toilets). As with caravans, Speedfit is well suited to this application.

WORKING TEMPERATURES AND PRESSURES

| Application | Usual working temperature, °C | Maximum working temperature, °C | Maximum working pressure, bar |
|---------------------------------------|-------------------------------|------------------------------------|-------------------------------|
| Cold Water | 20 | 20 | 12 |
| <i>(indirect and direct mains)</i> | | | |
| Central Heating | 82 | 105, short term malfunction at 114 | 3 |
| Hot Water | 65 | 95 | 6 |
| <i>(including unvented cylinders)</i> | | | |

Speedfit fittings suitable for central heating systems can withstand temperatures up to 114°C intermittently for short periods.

Speedfit fittings shown as not suitable for central heating systems are used primarily on the domestic hot and cold water system accepting temperatures of up to 65°C.

HANDLING FITTINGS AND PIPE

Ensure fittings and pipe are kept clean at all times by keeping them in bags and boxes provided.

Do not empty Speedfit Products onto the floor area.

Ensure internal 'O' Ring seals are kept free from dirt and debris.

PRODUCT SELECTION AND INSTALLATION

John Guest fittings and related products are specifically designed and manufactured by John Guest to the Technical Specifications set out in the John Guest Product Catalogues.

All John Guest fittings and related products should be selected, installed, used and maintained in accordance with these Technical Specifications.

It is the customer's / user's responsibility to ensure that John Guest fittings and related products are suitable for their intended applications, are properly installed and maintained and are used in accordance with the Technical Specifications. It is also the customer's / user's responsibility to provide it's own customers with any relevant technical information about John Guest products it supplies them.

John Guest produce a Push-fit system of pipe and fittings for compressed air situations. See separate literature for details.

MAKING A GOOD CONNECTION

PREPARE THE PIPE

Fittings and pipe should be kept clean bagged and undamaged before use.

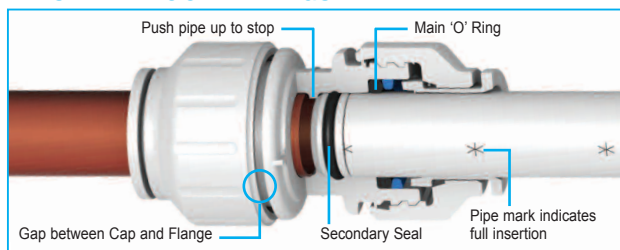


Ensure the pipe is free of score marks. Cut the pipe square. When using Speedfit Barrier Pipe cut along an insertion mark. We recommend the use of JG Pipe Cutters.



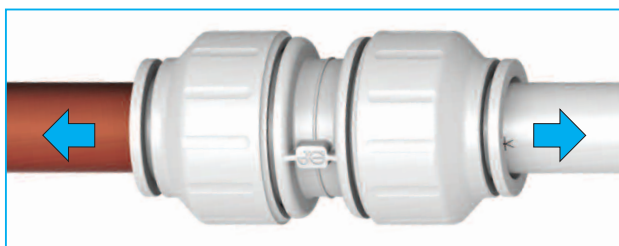
To prevent damage to the 'O' ring remove all burrs and sharp edges. When connecting Speedfit Pipe use a Superseal Pipe Insert or a Standard Speedfit Pipe Insert. A twisting motion will aid insertion. The insert should only be used with Speedfit Pipe.

TWIST AND LOCK FITTINGS



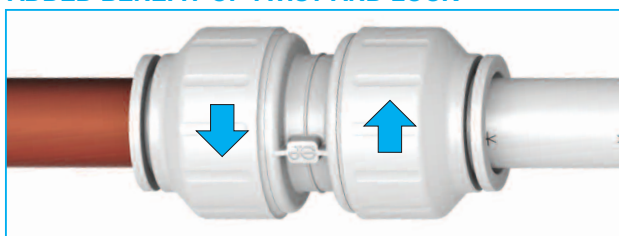
The fitting should be in the 'unlocked' position, this is shown with a small gap between the screwcap and the body flange.

Push the pipe fully into the fitting, up to the pipe stop. If the Speedfit Pipe has been cut correctly the insertion mark on the pipe will be level with the collet head. The 'O' ring on the Superseal Pipe Insert provides a secondary seal against the bore of the fitting. A good connection has been made.



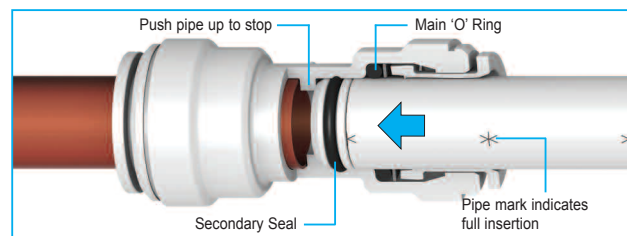
If you are not using collet clips, ensure that the screwcaps are in the locked position. Pull to check it is secure. It is good practice to test the system prior to leaving the site or before use. Our recommended test procedure is shown in our Technical Checklist.

ADDED BENEFIT OF TWIST AND LOCK



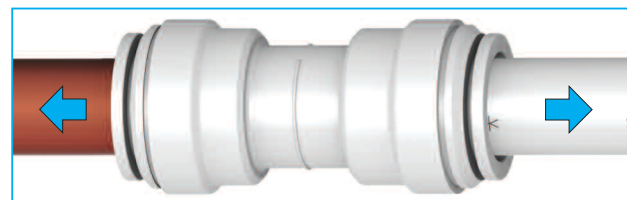
Twist the screwcap until it touches the body flange. This increases the 'O' ring seal around the pipe and locks the pipe into position.

STANDARD SPEEDFIT FITTINGS



Standard Speedfit connections are made in the same way as Twist and Lock.

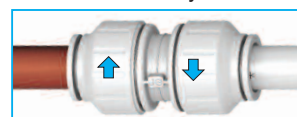
Push Pipe up to Pipe Stop. If the Speedfit Pipe has been cut correctly the insertion mark on the pipe will be level with the collet head.



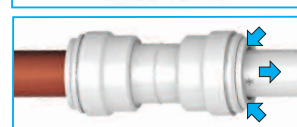
Pull to check connection is secure and test the system. Our recommended test procedure is shown in our Technical Checklist on page 31.

TO DISCONNECT

Ensure that the system is depressurised.



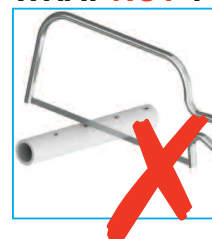
The screwcap on Twist and Lock Fittings will need to be turned back to the unlocked position.



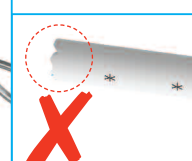
For both Twist and Lock and Standard fittings, push the collet square against the face of the fitting by using fingers or with

the help of our collet release tool. With the collet held in position the pipe can be removed. The fitting can be used again without the need for replacement parts.

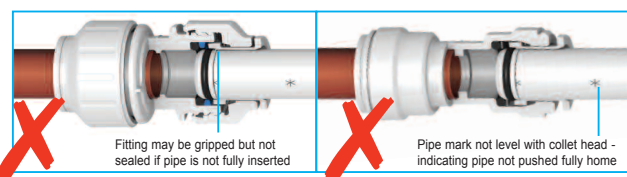
WHAT NOT TO DO



Don't use hacksaws to cut the pipe or leave burrs on the end of the pipe.



Don't use damaged or scored pipe. Score marks can cause leaks passed the 'O' Ring.



Don't forget to push the pipe fully into the fitting, past both the collet (gripper) and the 'O' ring.

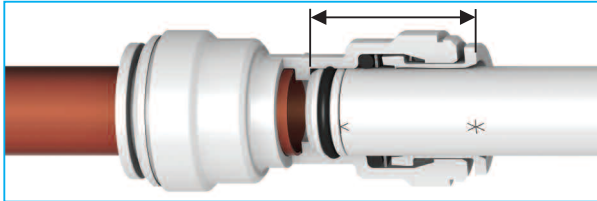
Do not insert fingers into the fitting as the stainless steel teeth may cause injury.

Remember to pressure test the completed installation according to the recommendations in our Technical Checklist.

PIPE STOP DISTANCES

Stops are located at the following distances from the end of the fitting:

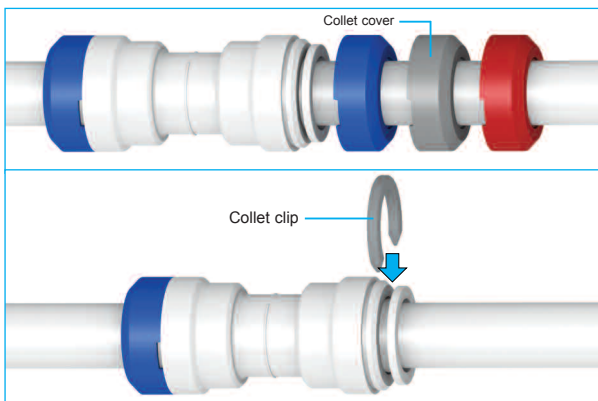
| Size | 10mm | 15mm | 22mm | 28mm |
|---------------|------|------|------|------|
| Stop Distance | 20mm | 30mm | 35mm | 44mm |



COLLET COVERS AND COLLET CLIPS

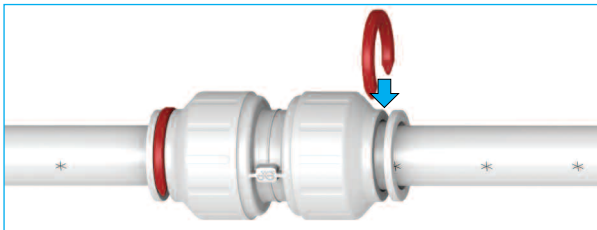
Use a collet cover or collet clip to provide added security against pipe disconnection, e.g. the fitting coming into contact with rigid surfaces and behind dry-lining walls.

Collet covers for use with standard Speedfit fittings, are available in white or in red or blue to allow colour coding of pipes.



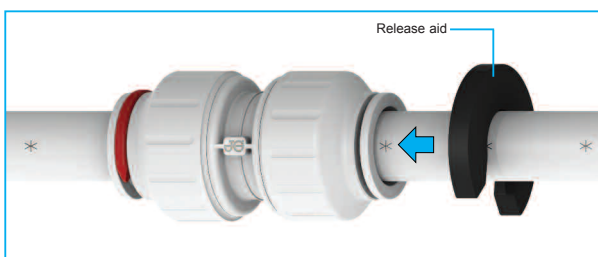
White or grey collet clips are used with standard fittings to prevent accidental pipe disconnection.

Red or Blue collet clips provide colour coding of pipe on Twist and Lock fittings. They are not designed to prevent accidental release and should be fitted when the fitting is in the locked position.



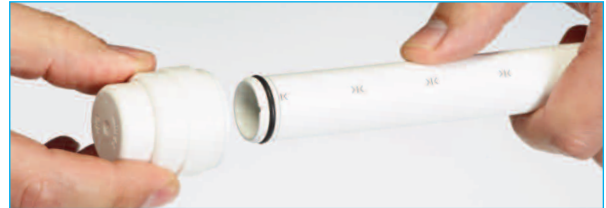
RELEASE AID

The action of pressure in a system could increase the grip of the collet. The release aid allows a firmer grip on the collet whilst removing the pipe.



STOP END

The unique feature of the Speedfit Concept, the ability to disconnect the fitting should you want to, means the Speedfit Stop End not only provides a permanent leakproof seal, but can be readily removed to allow work to restart or to allow an extension to a system. Thus, the fitting is especially useful to allow water to be turned back on, overnight for instance, or if a job has to be interrupted for another reason.



Stop ends are also useful when pressure testing a system before appliances are connected.

STEM ELBOW



Designed to simplify pipe connection in restricted spaces. The Speedfit Stem Elbow provides an instant swivel fitting so pipe can be orientated in any direction.

A special 10mm version gives a neat connection from concealed plumbing to a radiator.

SERVICE VALVES

The Speedfit range of brass chromium plated service valves can be used on both hot and cold water services and central heating. Push-fit connections mean much reduced installation time, especially in confined spaces.

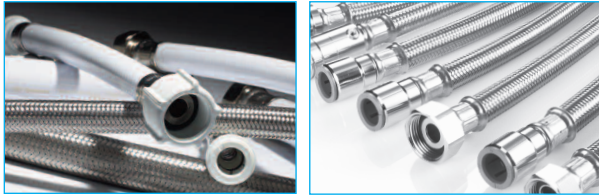


The valves, in 10 to 22mm, have a 1/4 turn open/close mechanism operated by a screwdriver slot or a lever.

The ability of Speedfit products to twist whilst in situ allows the screwdriver slot operating valve to be turned out of sight, helping to avoid unauthorised tampering.

FLEXI HOSES

Manufactured to a quality you would expect from Speedfit, our range of Flexi Hoses has nearly 50 different patterns. A special pattern has been designed to help the installation of monoblocs, each hose in a pair having a different spanner location to ease connection of the threaded end into the monoblocs inlets.



Flexi Hoses are listed on pages 17 and 18.

TAP CONNECTORS

Speedfit manufacturer a wide range of connectors including conventional straight and bent tap connectors.



The range also offers a special and unique Tap Connector that only requires a simple hand tightening to connect up a terminal tap, mixer or a float valve. An integral seal within the fitting avoids the need for further sealant. The connectors are useful when replacing existing brassware or in other confined spaces.

Coupling up to a supply is easy. The pipe is simply pushed home into the Speedfit connection and is instantly secured, without the need for specialist tools.

SPEEDFIT MANIFOLD

Speedfit have introduced an innovative 22mm x 10mm 4 way manifold. Departing from the usual manifold design, this new product has 4 in-line 10mm outlets, offering a neater envelope size and therefore a much smaller installation space.

Other benefits include better flow characteristics and a more even distribution of hot water.

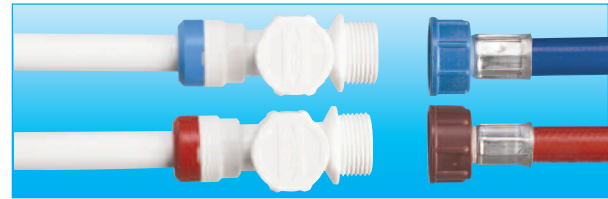
The 22mm and 10mm Speedfit Push-fit connections make for a fast and easy installation, even in confined spaces.

Whilst designed as heating product, the manifold can also be used in a mains pressure hot or cold domestic plumbing system, to feed bathroom or kitchen taps and mixers. This allows for a more efficient installation as every terminal fitting has its own dedicated supply.



APPLIANCE TAPS

The Speedfit Range includes an Appliance Tap for the permanent connection of washing machines and dishwashers, thus enabling complete water isolation to the appliances.



A simple push-fit connection of the supply pipe and a plastic thread on the outlet to marry well with the plastic thread on the hose means the Speedfit Appliance Tap is very easy to install. The large round handle is easy to grip and turn.

SUPERSEAL PIPE INSERT

The Superseal Pipe Insert has been developed to be used with Speedfit Barrier Pipe and Speedfit Fittings to provide an extra line of defence when installing a Speedfit Push-fit System.

The insert has its own 'O' ring which, together with a stem sliding within the inside diameter of the pipe gives a secondary seal against the inside of the fitting.



The Speedfit Connection, when made with the insert, has a number of design features.

Sliding the stem of the insert into the pipe gives greater compression of the main 'O' ring on the pipe and greater rigidity of the length of pipe within the fitting, reducing the chance of leaks if a side load is applied.

A connection is easier to make because the head of the insert has been designed for ease of insertion.

Superseal Inserts are listed on page 13.

How Speedfit works

The JG Speedfit system uses a simple push-fit action meaning that there is no flux, flames or mess. All fittings have a grip then seal construction, made up of a collet with stainless steel teeth to grip an 'O' ring to provide a permanent leak proof seal.

The additional benefit of 'Twist and Lock' is that a twist of a screwcap locks the pipe in position and provides increased compression on the 'O' ring for even greater security. With plastic pipe available in straight lengths or coils, the flexible system will ensure a fast, simple and reliable installation.

Features

- Truly demountable without damage to pipe or fitting
- Grip and seal connection
- Superseal Insert gives secondary seal
- Reduced pipe insertion force
- Lightweight and easy to handle on site

Why Speedfit?

- Installation time reduced by up to 40%
- Pipe flexibility permits the cabling of pipe through less accessible areas
- No risk of fire or flames from a blowtorch
- Easier to work in confined places
- A permanent leak-proof connection
- Corrosion free
- No scale build up
- Lower thermal diffusivity maintains safer surface temperature
- Pipe elasticity can reduce the possibility of bursting under freezing conditions
- Lead free and non toxic
- Less noise from water flow and expansion / contraction
- Long pipe lengths reduce the number of fittings required



Speedfit® Technology

WITH YOU EVERYDAY



TELECOM CONNECTIONS

Connecting Ultra Fast Broadband Cables



PUBS & BARS

Connecting Beer Lines in 95% of Bars in the UK



PURE WATER

World Leader in Water Filtration Connection Technology



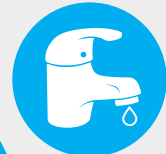
COMPRESSED AIR

Connecting Air & Pneumatic Tubing in Factories



DRINKS DISPENSE

Wide Range of Connectors for Drinks & Coffee Dispensers



PLUMBING & HEATING

UK Market Leader in Plastic Plumbing & Heating Systems



AUTOMOTIVE

Fuel & Brake Line Connections for Luxury Car Markets



Plastic Innovation 

Engineering Excellence 

Speedfit[®] Technology 

Speedfit[®] Technology

Speedfit Technology is built into the DNA of all our push-fit fittings. The distinctive appeal lies within its flexibility of application, high reliability of performance, longevity of service and suitability to a wide variety of industries.

The core technology behind a JG Speedfit plumbing fitting is the same concept incorporated in all John Guest fittings serving the needs of industries as diverse as drinks dispense, pneumatics, compressed air, water purification, drinks vending and telecommunications.



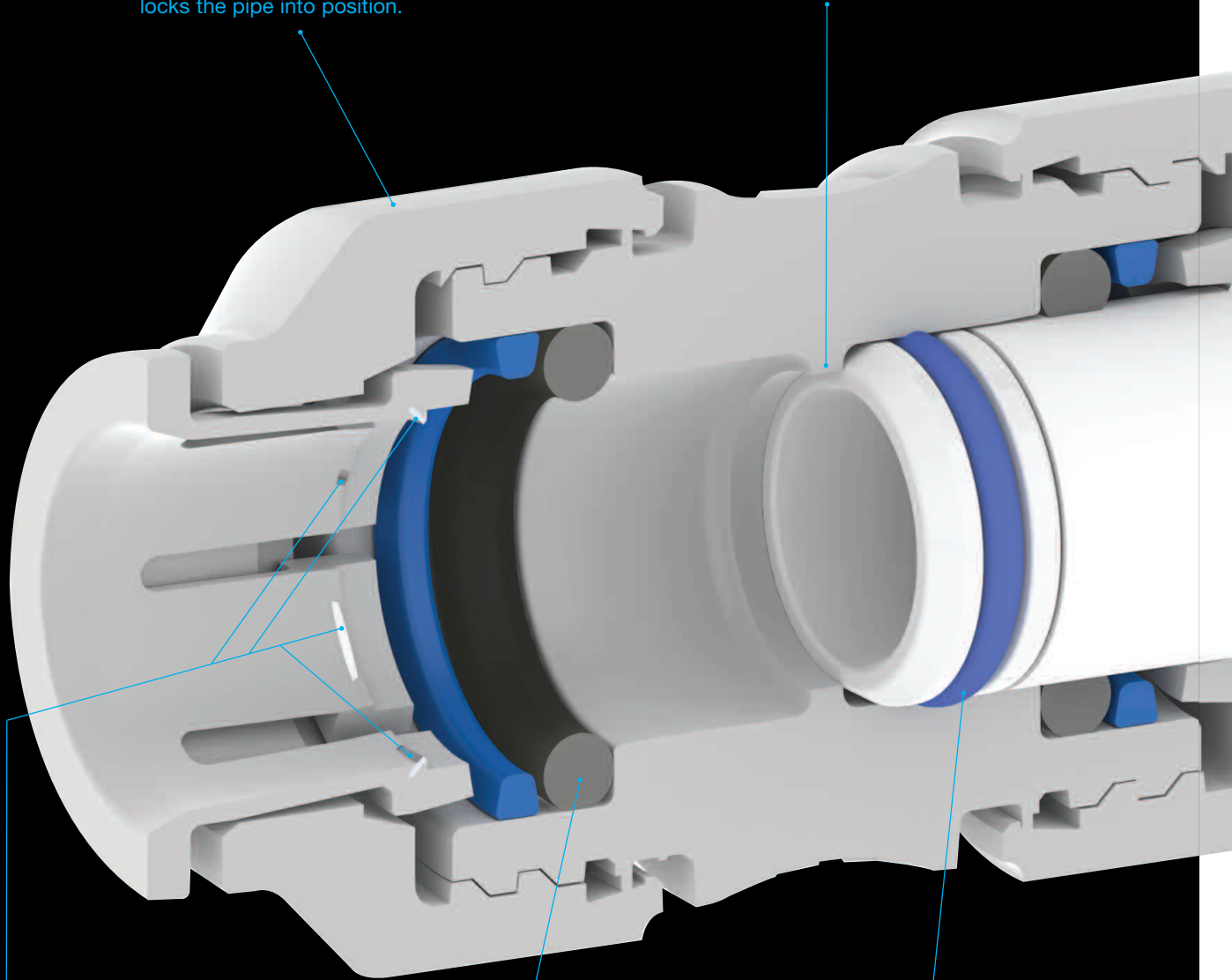


Twist and Lock Cap.

Increases compression on the 'O' ring seal around the pipe and locks the pipe into position.

Pipe Stop.

Push the pipe all the way onto the fitting to ensure full insertion.



Stainless Steel Teeth.

Provides a firm grip on plastic or copper pipe.

Main 'O' Ring Seal.

Ensures a permanent leak-proof connection.

Superseal 'O' Ring.

Pipe insert gives a secondary seal.

WHITE PLUMBING FITTINGS



FM01977

EQUAL STRAIGHT CONNECTOR



| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|---------|---------|-----------|-----------|
| PEM0410W | 10 | 10 | 150 | |
| PEM0415W | 15 | 10 | 60 | 400 |
| PEM0422W | 22 | 5 | 30 | 200 |
| PEM0428W | 28 | 2 | 10 | |

Suitable for central heating systems.

REDUCING STRAIGHT COUPLER



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|------------|---------|---------|---------|
| PEM201510W | 15 x 10 | 10 | 80 |
| PEM202215W | 22 x 15 | 5 | 40 |

Suitable for central heating systems.

PE-COPPER COUPLER



Used to connect PE Pipe to copper or Speedfit Plumbing Pipe. Must not be buried directly into ground, soil, concrete or other substrates.

| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|---------|---------|---------|
| UG601B | 20 x 15 | 1 | 150 |
| UG603B | 25 x 15 | 1 | 100 |
| UG602B | 25 x 22 | 1 | 80 |
| UG604B | 32 x 28 | 1 | 60 |

Cold water only

* Taken from the range of Speedfit Fittings for Cold Water Services. See separate section for details and Technical Specification.

EQUAL ELBOW



| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|---------|---------|-----------|-----------|
| PEM0310W | 10 | 10 | 150 | 1000 |
| PEM0315W | 15 | 10 | 50 | 400 |
| PEM0322W | 22 | 5 | 25 | 150 |
| PEM0328W | 28 | 2 | 10 | |

Suitable for central heating systems.

REDUCING ELBOW



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|------------|---------|---------|---------|
| PEM211510W | 15 x 10 | 10 | 50 |
| PEM212215W | 22 x 15 | 5 | 40 |

Suitable for central heating systems.

STEM ELBOW



Provides a swivel type connection.

| PART No. | PIPE MM | STEM MM | BAG QTY | SMALL BOX | LARGE BOX |
|------------|---------|---------|---------|-----------|-----------|
| PEM221010W | 10 | 10 | 10 | 200 | |
| PEM221015W | 10 | 15 | 10 | 150 | |
| PEM221515W | 15 | 15 | 10 | 80 | 500 |
| PEM222222W | 22 | 22 | 5 | 30 | |

Suitable for central heating systems.

Please note a Collet Cover cannot be used on a Speedfit end assembled with the stem of a 22mm Stem Elbow.

135° STEM ELBOW



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|------------|---------|---------|---------|
| PEM571515W | 15 | 10 | 80 |
| PEM572222W | 22 | 5 | 30 |

Suitable for central heating systems.

EQUAL TEE



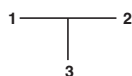
| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|---------|---------|-----------|-----------|
| PEM0210W | 10 | 10 | 100 | |
| PEM0215W | 15 | 5 | 40 | 250 |
| PEM0222W | 22 | 5 | 15 | 100 |
| PEM0228W | 28 | 2 | 8 | |

Suitable for central heating systems.

REDUCING TEE



Sizes listed as follows.



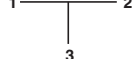
| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|-------------|----------|---------|-----------|-----------|
| PEM3015BW | 15x10x10 | 10 | 60 | |
| PEM3015AW | 15x15x10 | 5 | 40 | |
| PEM3022CW | 15x15x22 | 5 | 25 | |
| PEM3022BW | 22x15x15 | 5 | 25 | 150 |
| PEM3022DW | 22x15x22 | 5 | 15 | 150 |
| PEM302210AW | 22x22x10 | 5 | 20 | |
| PEM3022AW | 22x22x15 | 5 | 15 | 150 |
| PEM3028BW | 28x22x22 | 2 | 10 | |
| PEM3028DW | 28x22x28 | 2 | 10 | |
| PEM302810AW | 28x28x10 | 2 | 10 | |
| PEM302815AW | 28x28x15 | 2 | 10 | |
| PEM3028AW | 28x28x22 | 2 | 10 | |

Suitable for central heating systems.

STEM TEE



Sizes listed as follows.



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|------------|----------|---------|---------|
| PEM532210W | 22x22x10 | 5 | 30 |
| PEM532215W | 22x22x15 | 5 | 25 |

Suitable for central heating systems.

FEMALE COUPLER - TAP CONNECTOR



Requires hand tightening only.

| PART No. | SIZE MM X BSP | BAG QTY | SMALL BOX | LARGE BOX |
|----------|---------------|---------|-----------|-----------|
| PSE3210W | 10 x 1/2" | 10 | 150 | |
| PSE3201W | 15 x 1/2" | 10 | 100 | 600 |
| PSE3203W | 15 x 3/4" | 5 | 70 | |
| PSE3202W | 22 x 3/4" | 5 | 50 | 400 |

Suitable for central heating systems.

Note: Plastic threads are not as strong as metal threads. For torque figures see Technical Checklist.

STRAIGHT TAP CONNECTOR



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|------------|---------------|---------|---------|
| PEMSTC1014 | 10 x 1/2" | 10 | 150 |
| PEMSTC1514 | 15 x 1/2" | 5 | 50 |
| PEMSTC1516 | 15 x 3/4" | 5 | 50 |
| PEMSTC2216 | 22 x 3/4" | 5 | 40 |

Suitable for central heating systems.

With brass swivel nut and sealing washer. For torque figures see Technical Checklist.

BENT TAP CONNECTOR



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|------------|------------------|------------|------------|
| PEMBTC1014 | 10 x 1/2" | 10 | 150 |
| PEMBTC1514 | 15 x 1/2" | 5 | 50 |

Suitable for central heating systems.
With brass swivel nut and sealing washer.
For torque figures see Technical Checklist.

PLASTIC BACK PLATE ELBOW



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 15PWB | 15 x 1/2" | 1 | 25 |

Hot and cold water only, 65°C maximum.
Protect from sunlight and frost.

STOP END



| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|------------|------------|--------------|--------------|
| PSE4610W | 10 | 10 | 300 | |
| PSE4615W | 15 | 10 | 200 | 1000 |
| PSE4622W | 22 | 5 | 80 | 500 |
| PSE4628W | 28 | 5 | 50 | |

Suitable for central heating systems.

WING BACK ELBOW



| PART No. | SIZE MM X BSPT | PRICE £ | BAG QTY | BOX QTY |
|-----------|-------------------|------------|------------|------------|
| UgPWB1514 | 15 x 1/2" | | 1 | 150 |

Cold water only

REDUCER



| PART No. | SIZE MM | £ | BAG QTY | SMALL BOX | LARGE BOX |
|------------|------------|---|------------|--------------|--------------|
| PEM061510W | 15 x 10 | | 10 | 150 | 1000 |
| PEM062215W | 22 x 15 | | 10 | 70 | |
| PEM062815W | 28 x 15 | | 5 | 40 | |
| PEM062822W | 28 x 22 | | 5 | 30 | |

Suitable for central heating systems.

BULKHEAD ELBOW



| PART No. | SIZE MM X BSPT | BAG QTY | BOX QTY |
|-----------|-------------------|------------|------------|
| CM551516W | 15mm x 3/4" | 5 | 25 |

Not suitable for central heating systems.
Hot and cold water only, 65°C maximum.

TANK CONNECTOR



Requires hand tightening only.
Maximum wall thickness of tank = 4mm.

| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| CM0715S | 15 | 10 | 60 |
| CM0722S | 22 | 5 | 20 |
| CM0728S | 28 | 1 | 10 |

Suitable for cold water tanks only.

2 WAY DIVIDER



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| CM2315W | 15 | 5 | 50 |

Not suitable for central heating systems.

PLUg



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| PL10 | 10 | 10 | 500 |
| PL15 | 15 | 10 | 250 |
| PL22 | 22 | 10 | 100 |
| PL28 | 28 | 10 | 50 |

Suitable for central heating systems.

4 WAY MANIFOLD



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|------------|------------|------------|------------|
| SFM512210E | 22 x 10 | 5 | 30 |

Suitable for central heating systems.

PIPE REPAIR KIT



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| 15RKP | 15 | 1 | 80 |
| 22RKP | 22 | 1 | 50 |

Suitable for central heating systems.

Provides a simple way of repair on a rigid pipe run.
Remove a damaged section of pipe and replace with a repair kit

4 PORT RAIL MANIFOLD



| PART No. | SIZE MM | BOX QTY |
|------------|------------|------------|
| SFM522210E | 22 x 10 | 10 |
| SFM522215E | 22 x 15 | 10 |

Suitable for central heating systems.

SLIP TEE CONNECTOR



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| 15TKP | 15 | 1 | 80 |
| 22TKP | 22 | 1 | 40 |

Suitable for central heating systems.

Provides a simple way to break into an existing pipe run



FOR PIPE SEE PAGE 15

BRASS FITTINGS



BRASS MALE COUPLER



| PART No. | SIZE MM X BSPT | BAG QTY | BOX QTY |
|-----------|-------------------|------------|------------|
| MW011504N | 15mm x 1/2" BSPT | 5 | 100 |
| MW012206N | 22mm x 3/4" BSPT | 5 | 50 |
| MW012808N | 28mm x 1" BSPT | 5 | 20 |

| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|------------|------------------|------------|------------|
| 10MC (1/2) | 10mm x 1/2" BSP | 5 | 100 |
| 15MC (1/2) | 15mm x 1/2" BSP | 5 | 100 |
| 22MC (3/4) | 22mm x 3/4" BSP | 5 | 50 |
| MW012818N | 28mm x 1" BSP | 5 | 20 |

Suitable for central heating systems.
Manufactured in DZR Brass.

BRASS FEMALE COUPLER



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|-----------|------------------|------------|------------|
| MW451514N | 15 x 1/2" | 5 | 50 |
| MW452216N | 22 x 3/4" | 5 | 50 |

Suitable for central heating systems.
Manufactured in DZR Brass.

BRASS BACK PLATE ELBOW



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 15WB | 15 x 1/2" | 1 | 20 |
| 22WB | 22 x 3/4" | 1 | 10 |

Manufactured in DZR Brass.
Suitable for central heating systems.
SHORT VERSION

| | | | |
|-------|-----------|---|----|
| 15WB2 | 15 x 1/2" | 1 | 25 |
|-------|-----------|---|----|

Manufactured in Brass.
Suitable for central heating systems.

BRASS MALE STEM ADAPTOR



Converts Speedfit to male thread

| PART No. | SIZE MM X BSPT | BAG QTY | BOX QTY |
|-----------|-------------------|------------|------------|
| MW051504N | 15 x 1/2" | 5 | 100 |
| MW052206N | 22 x 3/4" | 5 | 50 |
| MW052818N | 28 x 1" BSP | 10 | 20 |

Suitable for central heating systems.
Manufactured in DZR Brass.

BRASS FEMALE STEM ADAPTOR



Converts Speedfit to female thread

| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|-----------|------------------|------------|------------|
| MW501514N | 15 x 1/2" | 5 | 50 |
| MW502216N | 22 x 3/4" | 5 | 50 |

Suitable for central heating systems.
Manufactured in DZR Brass.

BRASS FEMALE CYLINDER ADAPTOR



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 22CFA | 22 x 1" | 5 | 50 |

Suitable for central heating systems.
Manufactured in DZR Brass.

BRASS MALE CYLINDER ADAPTOR



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 22CMA | 22 x 1" | 5 | 50 |

Suitable for central heating systems.
Manufactured in DZR Brass.

VALVES

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

Do Not use these Valves:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker '•'

STOP VALVE



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| 15STV | 15 | 1 | 15 |
| 22STV | 22 | 1 | 5 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

APPLIANCE TAP •



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 15APT | 15 x 3/4" | 5 | 40 |

Not suitable for central heating systems.
For maximum torque figures on plastic thread, please see Technical Checklist.

APPLIANCE TEE •



| PART No. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|------------------|------------|------------|
| 15APT2 | 15 x 3/4" | 5 | 30 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

EMERGENCY SHUT OFF TAP •



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| 15ESOT | 15 | 5 | 40 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

ANGLE STOP VALVE •



| PART No. | SIZE MM X INCH | PACK QTY | BOX QTY |
|----------|-------------------|-------------|------------|
| ASV3 | 15 x 1/4" | 1 | 30 |
| ASV4 | 15 x 3/8" | 1 | 25 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.
Provides an inline connection with shut off and check valve protection for the easy installation of water coolers, filtration equipment and vending machines.

DOUBLE CHECK VALVE



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|----------|------------|------------|------------|
| 15DCV | 15 | 5 | 50 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

DOUBLE CHECK SERVICE VALVE



| PART NO. | SIZE MM | BAG QTY | BOX QTY |
|----------|---------|---------|---------|
| 15DCSV | 15 | 1 | 20 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

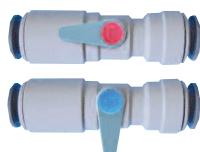
PLASTIC SERVICE VALVE



| PART NO. | SIZE MM | BAG QTY | BOX QTY |
|----------|---------|---------|---------|
| 15SV | 15 | 5 | 50 |
| 22SV | 22 | 5 | 25 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

PLASTIC BALL VALVE

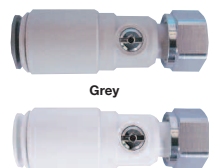


| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|----------|---------|----------|---------|
| 15SV-H | 15 | 1 | 40 |
| 22SV-H | 22 | 1 | 20 |

Not suitable for central heating systems.

Each valve has red and blue indices.

PLASTIC SERVICE VALVE WITH TAP CONNECTOR



Grey



White

| PART NO. | SIZE MM X BSP | BAG QTY | BOX QTY |
|-----------|---------------|---------|---------|
| 15SVSTC | 15 x 1/2" | 5 | 50 |
| 15SVSTC-W | 15 x 1/2" | 5 | 50 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

PLASTIC ANGLE SERVICE VALVE WITH TAP CONNECTOR



Grey



White

| PART NO. | SIZE MM X BSP | BAG QTY | BOX QTY |
|-----------|---------------|---------|---------|
| 15SVBTC | 15 x 1/2" | 5 | 50 |
| 15SVBTC-W | 15 x 1/2" | 5 | 50 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

BRASS SERVICE VALVE



| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|-------------|---------|----------|---------|
| 15HSV-BRASS | 15 | 2 | 20 |

Suitable for central heating systems.

BRASS CHROME PLATED SERVICE VALVE



| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|----------|---------|----------|---------|
| 10HSV | 10 | 1 | 30 |
| 15HSV | 15 | 2 | 20 |
| 22HSV | 22 | 1 | 8 |

Suitable for central heating systems.

BRASS CHROME PLATED SERVICE VALVE WITH TAP CONNECTOR



| PART NO. | SIZE MM X BSP | PACK QTY | BOX QTY |
|----------|---------------|----------|---------|
| 15PTSV | 15 x 1/2" | 2 | 20 |
| 22PTSV | 22 x 3/4" | 1 | 8 |

Suitable for central heating systems.

BRASS CHROME PLATED BALL VALVE



| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|----------|---------|----------|---------|
| 10BV | 10 | 1 | 30 |
| 15BV | 15 | 1 | 20 |
| 22BV | 22 | 1 | 15 |

Suitable for central heating systems.

Each valve has red and blue indices.



BRASS MANIFOLD



| PART NO. | DESCRIPTION | SIZE BSP X MM | PACK QTY | BOX QTY |
|----------|-------------|---------------|----------|---------|
| JGMAN2 | 2 Port | 3/4" x 15 | 1 | 30 |
| JGMAN3 | 3 Port | 3/4" x 15 | 1 | 25 |
| JGMAN4 | 4 Port | 3/4" x 15 | 1 | 20 |

Blanking plug supplied with each manifold. Each manifold supplied with reversible red and blue discs.

Not Suitable for central heating systems.

BRASS STOP VALVE



| PART NO. | SIZE MM X BSP | BAG QTY | BOX QTY |
|----------|---------------|---------|---------|
| 15BSC | 15 | 1 | 10 |

Only suitable for central heating systems.

Manufactured in DZR Brass.

BRASS DRAIN COCK



| PART NO. | SIZE MM | BAG QTY | BOX QTY |
|----------|---------|---------|---------|
| 15BDC | 15 | 5 | 50 |

Suitable for central heating systems.

Manufactured in DZR Brass.

Speedfit Drain Cocks cannot be used where collet covers are fitted. They can be used with a standard fitting fitted with a collet clip.

THERMOSTATIC RADIATOR VALVE



| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|-----------|---------|----------|---------|
| JGTHRAD15 | 15 | 1 | 10 |

LOCKSHIELD RADIATOR VALVE



| PART NO. | SIZE MM | PACK QTY | BOX QTY |
|----------|---------|----------|---------|
| JGRAD15 | 15 | 1 | 20 |



Introducing Layflat Pipe

Lays Flat - Stays Flat - Ultra Flexible

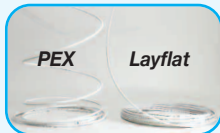
JG LAYFLAT® POLYBUTYLENE BARRIER PIPE



Coils. The pipe is made from a soft material with little memory ensuring a flexible system. It has an inner barrier to stop the ingress of atmosphere. British Gas accepted for water pipe in vented and sealed central heating systems.

| PART No. | SIZE MM X M | PACK QTY | BOX QTY |
|------------|----------------|-------------|------------|
| 10BPB-50C | 10 x 50 | 1 | |
| 10BPB-100C | 10 x 100 | 1 | |
| 15BPB-25C | 15 x 25 | 1 | 8 |
| 15BPB-50C | 15 x 50 | 1 | 6 |
| 15BPB-100C | 15 x 100 | 1 | 4 |
| 15BPB-120C | 15 x 120 | 1 | 4 |
| 15BPB-150C | 15 x 150 | 1 | 3 |
| 15BPB-300C | 15 x 300 | 1 | |
| 22BPB-25C | 22 x 25 | 1 | 6 |
| 22BPB-50C | 22 x 50 | 1 | 4 |

Suitable for central heating systems.



Easy to Handle



Ultra Flexible

SPEEDFIT PEX BARRIER PIPE



British Gas accepted for water pipe in vented and sealed central heating systems.

| PART No. | SIZE MM X M | PACK QTY | BOX QTY |
|-------------|----------------|-------------|------------|
| 10BPEX-25C | 10 x 25 | 1 | 20 |
| 10BPEX-50C | 10 x 50 | 1 | 10 |
| 10BPEX-100C | 10 x 100 | 1 | 6 |
| 15BPEX-25C | 15 x 25 | 1 | 8 |
| 15BPEX-50C | 15 x 50 | 1 | 5 |
| 15BPEX-100C | 15 x 100 | 1 | 5 |
| 15BPEX-120C | 15 x 120 | 1 | 5 |
| 15BPEX-150C | 15 x 150 | 1 | 4 |
| 22BPEX-25C | 22 x 25 | 1 | 8 |
| 22BPEX-50C | 22 x 50 | 1 | 5 |

Suitable for central heating systems.

SPEEDFIT PEX BARRIER PIPE



Straight lengths. 15 & 22mm in packs of 20. 28mm in packs of 10.

Minimum order for 6m lengths is 10 packs.

* By special order only.

| PART No. | SIZE MM X M | PACK QTY |
|----------------|----------------|-------------|
| 15BPEX-20X2L | 15 x 2 | 20 |
| 15BPEX-20X3L | 15 x 3 | 20 |
| 15BPEX-20X6L | 15 x 6 | 20 |
| 22BPEX-20X2L | 22 x 2 | 20 |
| 22BPEX-20X3L | 22 x 3 | 20 |
| 22BPEX-20X6L | 22 x 6 | 20 |
| 28BPEX-10X3L | 28 x 3 | 10 |
| * 28BPEX-10X6L | 28 x 6 | 10 |

Suitable for central heating systems.

PIPE IN PIPE



| PART No. | SIZE MM X M | PACK QTY |
|-------------|----------------|-------------|
| 15PIP-50C-E | 15 x 50 | 1 |
| 22PIP-50C-E | 22 x 50 | 1 |

PIPE INSERT



To be used when connecting Speedfit Pipe to a compression fitting.

| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|------------|------------|--------------|--------------|
| TSM10N | 10 | 50 | 1000 | 20,000 |
| TSM15N | 15 | 50 | 500 | 5000 |
| TSM22N | 22 | 25 | 250 | 2000 |
| TSM28N | 28 | 10 | 150 | 1000 |

Suitable for central heating systems.

SUPERSEAL PIPE INSERT



To be used with Speedfit Pipe and Speedfit fittings, to give enhanced sealing.

See page 4 for details.

| PART No. | SIZE MM | BAG QTY | SMALL BOX | LARGE BOX |
|----------|------------|------------|--------------|--------------|
| STS10 | 10 | 50 | 1000 | 12,500 |
| STS15 | 15 | 50 | 500 | 5000 |
| STS22 | 22 | 25 | 250 | 2000 |
| STS28 | 28 | 10 | 150 | 1000 |

Suitable for central heating systems.

RED AND BLUE PIPE AND PIPE ACCESSORIES

RED & BLUE SPEEDFIT PEX BARRIER PIPE



Straight Lengths. The pipe has an inner barrier to stop the ingress of air.

| PART No. | SIZE MM X M | PACK QTY |
|---------------------|----------------|-------------|
| Red 15BPEX-20X6L-R | 15 x 6 | 20 |
| 22BPEX-20X6L-R | 22 x 6 | 20 |
| Blue 15BPEX-20X6L-B | 15 x 6 | 20 |
| 22BPEX-20X6L-B | 22 x 6 | 20 |

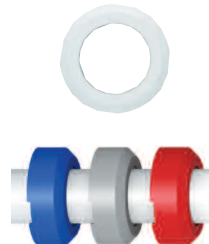
Minimum order quantities: 15mm size, 20 packs of 20 lengths
22mm size, 10 packs of 20 lengths

CONDUIT PIPE



| PART No. | SIZE MM X M | PACK QTY |
|--------------------|----------------|-------------|
| Black 15BLKCON-25C | 15 x 25 | 1 |
| 15BLKCON-50C | 15 x 50 | 1 |
| 22BLKCON-25C | 22 x 25 | 1 |
| 22BLKCON-50C | 22 x 50 | 1 |
| Red 15REDCON-50C | 15 x 50 | 1 |
| 22REDCON-50C | 22 x 50 | 1 |
| Blue 15BLUCON-50C | 15 x 50 | 1 |
| 22BLUCON-50C | 22 x 50 | 1 |

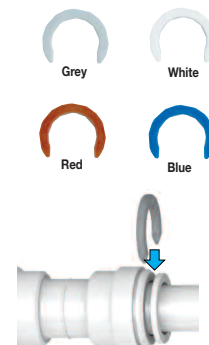
COLLET COVER



| PART No. | SIZE MM | £ | BAG QTY | SMALL BOX | LARGE BOX |
|----------|------------|---|------------|--------------|--------------|
| PKM1910W | 10 | | 100 | 500 | |
| PKM1910R | 10 | | 100 | 500 | |
| PKM1910B | 10 | | 100 | 500 | |
| AM1915W | 15 | | 100 | 400 | 4000 |
| PM1915R | 15 | | 100 | 400 | |
| PM1915B | 15 | | 100 | 400 | |
| AM1922W | 22 | | 50 | 200 | 2000 |
| PM1922R | 22 | | 50 | 200 | |
| PM1922B | 22 | | 50 | 200 | |

Suitable for central heating systems. Available in white, red or blue.

COLLET LOCKING CLIP



| PART No. | SIZE MM | BAG QTY | BOX QTY |
|---------------|------------|------------|------------|
| CM1810S Grey | 10 | 100 | 2000 |
| CM1815S Grey | 15 | 100 | 1000 |
| CM1822S Grey | 22 | 100 | 1000 |
| CM1810W White | 10 | 100 | 2000 |
| CM1815W White | 15 | 100 | 1000 |
| CM1822W White | 22 | 100 | 1000 |
| CM1810R Red | 10 | 100 | 2000 |
| CM1815R Red | 15 | 100 | 1000 |
| CM1822R Red | 22 | 100 | 1000 |
| CM1810B Blue | 10 | 100 | 2000 |
| CM1815B Blue | 15 | 100 | 1000 |
| CM1822B Blue | 22 | 100 | 1000 |

Suitable for central heating systems.

White and grey collet clips prevent accidental release of pipe from standard fittings. Red and blue clips provide colour coding of pipe, they should not be used to prevent accidental release of pipe.

PIPE CLIPS AND SPACERS

| Part No. | Size mm | Pack Qty | Box Qty |
|--------------|---------|----------|---------|
| White | | | |
| PC15W | 15 | 50 | 200 |
| PC22W | 22 | 50 | 100 |
| PC28W | 28 | 20 | 80 |
| PCSW | | 50 | 400 |
| Red | | | |
| PC15R | 15 | 50 | 200 |
| PC22R | 22 | 50 | 100 |
| PC28R | 28 | 20 | 80 |
| Blue | | | |
| PC15B | 15 | 50 | 200 |
| PC22B | 22 | 50 | 100 |
| PC28B | 28 | 20 | 80 |

RELEASE AID

| Part No. | Size mm | Bag Qty | Box Qty |
|----------|---------|---------|---------|
| 10RA | 10 | 10 | 500 |
| 15RA | 15 | 10 | 500 |
| 22RA | 22 | 10 | 400 |
| 28RA | 28 | 10 | 300 |

Allows a firmer grip on the collet when removing pipe.

CONDUIT ELBOW

| Part No. | Size | Bag Qty | Pack Qty |
|----------|--------------------|---------|----------|
| CONELB | FITS 10, 15 & 22mm | 10 | 70 |

COLD FORMING BEND

| Part No. | Size mm | Pack Qty | Box Qty |
|----------|---------|----------|---------|
| 10CFB | 10 | 10 | 200 |
| 15CFB | 15 | 10 | 30 |
| 22CFB | 22 | 10 | 10 |

To help create a tighter bend than the minimum unsupported pipe.

BENDING SPRINGS

| Part No. | Size mm | Pack Qty |
|----------|---------|----------|
| JG-BS10 | 10 | 5 |
| JG-BS15 | 15 | 5 |
| JG-BS22 | 22 | 5 |

RADIATOR OUTLET PLATE

| Part No. | Bag Qty | Box Qty |
|----------|---------|---------|
| JG-ROP | 1 | 25 |

Creates a neat outlet for 10mm supply pipes to a radiator. To be used with single gang 25mm steel KO boxes to BS 4662, fitted with rubber grommet.

NAIL CLIP

| Part No. | Size mm | Pack Qty | Box Qty |
|----------|---------|----------|---------|
| NPC10 | 10 | 50 | 1000 |
| NPC15 | 15 | 50 | 400 |
| NPC22 | 22 | 50 | 250 |
| NPC28 | 28 | 20 | 200 |

COLLETS

| Part No. | Size mm | Pack Qty |
|-------------------------|---------|----------|
| For Pkm Fittings | | |
| PXC10 | 10 | 20 |
| PXC15 | 15 | 20 |
| SPF22 | 22 | 20 |
| PXC28 | 28 | 20 |
| For Pem Fittings | | |
| PXC10 | 10 | 20 |
| PXC15 | 15 | 20 |
| PXC22 | 22 | 20 |
| PXC28 | 28 | 20 |

EPDM 'O' RING

| Part No. | Size mm | Pack Qty |
|----------|---------|----------|
| 10EPR | 10 | 20 |
| 15EPR | 15 | 20 |
| 22EPR | 22 | 20 |
| 28EPR | 28 | 20 |

THREAD WASHER

| Part No. | Size | Pack Qty |
|----------|------|----------|
| 1/2EPW | 1/2 | 20 |
| 3/4EPW | 3/4 | 20 |

For use with Female Coupler/Tap Connector.

Part No.PSe3210W, PSe3201W, PSe3202W & PSe3203W

FOIL TAPE

| Part No. | Size mm x m | Pack Qty |
|----------|-------------|----------|
| JGTAPE | 50 x 45 | 8 |

Metallic tape to meet NHBC requirements for plastic pipe to be detected inside walls.

PIPE CUTTER

| Part No. | Pack Qty | Box Qty |
|----------|----------|---------|
| JG-TS | 1 | 30 |

For up to 22mm size pipe.

HEAVY DUTY PIPE CUTTER

| Part No. | Pack Qty | Box Qty |
|----------|----------|---------|
| JGHDC | 1 | 20 |

For up to 28mm size pipe.

OTHER PLUMBING FITTINGS

CONVERSION CONNECTOR

| Part No. | Size | Bag Qty | Box Qty |
|----------|--------------|---------|---------|
| NC471 | 1/2id x 15mm | 5 | 500 |
| NC2324 | 3/4id x 22mm | 5 | 30 |

Connects imperial to metric pipe.

Suitable for central heating systems.

SLIP CONNECTOR

| Part No. | Size mm | Bag Qty | Box Qty |
|-----------|---------|---------|---------|
| CM-SC-15S | 15 | 10 | 60 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

HOSE CONNECTOR

| Part No. | Size | Price | Box Qty |
|----------|-------------|-------|---------|
| NC448 | 15mm x 1/2" | | 1000 |
| NC473 | 22mm x 3/4" | | 400 |
| NC737 | 22mm x 1/2" | | 500 |

Not suitable for central heating systems.
Hot and cold water only, 65°C maximum.

UNEQUAL STRAIGHT CONNECTOR

| Part No. | Size mm x INCH | Bag Qty | Box Qty |
|----------|----------------|---------|---------|
| NC2511 | 15mm x 3/8" | 10 | 150 |

Not suitable for central heating systems.
Hot and cold water only, 65°C maximum.

BRAIDED FLEXI HOSES

Not suitable for central heating.
Hot and cold water only, 6 Bar @ 65°C



SPEEDFIT X UNION NUT

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY | |
|--------|------------------|------------------|-----------------|----------------|------------|------------|-----|
| 150mm | FLX43P | 15 x 1/2" | | | 2 | 150 | |
| | 300mm | FLX34P | 10 x 1/2" | | | 2 | 150 |
| | | FLX35P | 15 x 3/8" | | | 2 | 150 |
| | | FLX15P | 15 x 1/2" | | | 2 | 100 |
| | | FLX16P | 15 x 3/4" | | | 2 | 100 |
| 500mm | FLX22P | 22 x 3/4" | | | 2 | 100 | |
| | FLX18P | 15 x 1/2" | | | 2 | 100 | |
| | FLX20P | 15 x 3/4" | | | 2 | 80 | |
| | FLX19P | 22 x 3/4" | | | 2 | 50 | |
| 1000mm | FLX23P Full Bore | 22 x 3/4" | | | 2 | 40 | |
| | FLX40P | 15 x 1/2" | | | 1 | 20 | |
| | FLX42 | 15 x 3/4" | | | 5 | 25 | |
| | FLX41P | 22 x 3/4" | | | 1 | 20 | |

SPEEDFIT X SPEEDFIT

| | PART No. | SIZE MM X MM | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|--------|----------|-----------------|-----------------|----------------|------------|------------|
| 300mm | FLX33P | 15 x 10 | | | 2 | 150 |
| | FLX17P | 15 x 15 | | | 2 | 100 |
| | FLX26P | 22 x 22 | | | 2 | 60 |
| 500mm | FLX21P | 15 x 15 | | | 2 | 100 |
| | FLX27P | 22 x 22 | | | 2 | 60 |
| 1000mm | FLX47 | 15 x 15 | | | 5 | 25 |

SPEEDFIT X MALE

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | FLX49 | 15 x 3/8" | | | 25 | 100 |

ELBOW PATTERN

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | FLX36P | 15 x 1/2" | | | 2 | 100 |

SPEEDFIT X PLAIN STEM

| | PART No. | PIPE MM | STEM MM | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------|------------|-----------------|----------------|------------|------------|
| 300mm | FLX53 | 15 | 15 | | | 25 | 100 |

SPEEDFIT X UNION NUT WITH SERVICE VALVE

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------------------------------|------------------|-----------------|----------------|------------|------------|
| 300mm | Plastic Valves | | | | | |
| | FLX37P | 15 x 1/2" | | | 2 | 100 |
| | FLX39P | 22 x 3/4" | | | 2 | 50 |
| 300mm | Plastic Valve with Handle | | | | | |
| | FLX37-H | 15 x 1/2" | | | 2 | 100 |
| | FLX39-H | 22 x 3/4" | | | 2 | 50 |

SPEEDFIT X SPEEDFIT WITH SERVICE VALVE

| | PART No. | SIZE MM X MM | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|--------------------|-----------------|-----------------|----------------|------------|------------|
| 300mm | Brass Valve | | | | | |
| | FLX44P | 15 x 15 | | | 2 | 80 |
| 500mm | FLX45P | 15 x 15 | | | 2 | 60 |

FOR MONOBLOC MIXERS

| | PART No. | SIZE MM X MALE | PACK QTY | BOX QTY |
|-------|----------|-------------------|-------------|------------|
| 300mm | FLX48 | 12 x M10 | 2 | 100 |
| | FLX28 | 15 x M10 | 2 | 100 |
| | FLX29 | 15 x M12 | 2 | 100 |

BRAIDED FLEXI HOSES

with Metal Connections

Not suitable for central heating.

Hot and cold water only, 10 Bar @ 85°C, 12.5 Bar @ 20°C

SPEEDFIT X UNION NUT WITH SERVICE VALVE

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|--------------------|------------------|-----------------|----------------|------------|------------|
| 300mm | Brass Valve | | | | | |
| | FLX24P | 15 x 1/2" | | | 2 | 80 |
| | FLX25P | 22 x 3/4" | | | 2 | 30 |
| 500mm | FLX31P | 15 x 1/2" | | | 2 | 50 |
| | FLX38P | 15 x 3/4" | | | 2 | 50 |
| | FLX32P | 22 x 3/4" | | | 2 | 30 |

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

Do Not use these Valves:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker '•'

WHITE FLEXI HOSES

Not suitable for central heating.
Hot and cold water only, 6 Bar @ 65°C



SPEEDFIT X UNION NUT

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|--------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | WFLX15 | 15 x 1/2" | | | 2 | 100 |
| | WFLX16 | 15 x 3/4" | | | 2 | 100 |
| | WFLX22 | 22 x 3/4" | | | 2 | 100 |
| 500mm | WFLX18 | 15 x 1/2" | | | 2 | 100 |
| | WFLX20 | 15 x 3/4" | | | 2 | 100 |
| | WFLX19 | 22 x 3/4" | | | 2 | 50 |
| 1000mm | WFLX40 | 15 x 1/2" | | | 1 | 20 |

SPEEDFIT X SPEEDFIT

| | PART No. | SIZE MM X MM | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|-----------------|-----------------|----------------|------------|------------|
| 300mm | WFLX33 | 15 x 10 | | | 2 | 100 |
| | WFLX17 | 15 x 15 | | | 2 | 100 |
| 500mm | WFLX21 | 15 x 15 | | | 2 | 100 |

SPEEDFIT X PLAIN STEM

| | PART No. | PIPE MM | STEM MM | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------|------------|-----------------|----------------|------------|------------|
| 200mm | WFLX51 | 15 | 15 | | | 2 | 200 |

ELBOW PATTERN

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | WFLX36 | 15 x 1/2" | | | 2 | 100 |

SPEEDFIT X UNION NUT WITH SERVICE VALVE

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | WFLX37-H | 15 x 1/2" | | | 2 | 100 |
| | WFLX39-H | 22 x 3/4" | | | 2 | 50 |

FOR MONOBLOC MIXERS

| | PART No. | SIZE MM X MALE | PRICE PACK £ | PACK QTY | BOX QTY |
|-------|----------|-------------------|-----------------|-------------|------------|
| 300mm | WFLX28 | 15 x M10 | | 2 | 100 |
| | WFLX29 | 15 x M12 | | 2 | 100 |

IDENTITY DISCS



For handles on service valves.

| PART No. | PACK QTY | PRICE PACK £ | PACK QTY |
|----------|-------------|-----------------|-------------|
| FLX-RED | 10 | | 10 |
| FLX-BLU | 10 | | 10 |

WHITE FLEXI HOSES With Plastic Wingnut

Hand tightening only, no spanner required

Not suitable for central heating.
Hot and cold water only, 6 Bar @ 65°C



SPEEDFIT X HAND TIGHTEN

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | PFLX15 | 15 x 1/2" | | | 2 | 100 |
| | PFLX16 | 15 x 3/4" | | | 2 | 100 |
| | PFLX22 | 22 x 3/4" | | | 2 | 80 |
| 500mm | PFLX18 | 15 x 1/2" | | | 2 | 100 |
| | PFLX19 | 22 x 3/4" | | | 2 | 50 |

SPEEDFIT X HAND TIGHTEN (WITH EXTRA HOSE FLEXIBILITY)



| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|-------|----------|------------------|-----------------|----------------|------------|------------|
| 300mm | PFLX88 | 15 x 1/2" | | | 1 | 100 |

SPEEDFIT X UNION NUT WITH SERVICE VALVE

| | PART No. | SIZE MM X BSP | PRICE EACH £ | PRICE BAG £ | BAG QTY | BOX QTY |
|----------------------------------|----------|------------------|-----------------|----------------|------------|------------|
| Plastic Valves | | | | | | |
| 300mm | PFLX37 | 15 x 1/2" | | | 2 | 100 |
| 500mm | PFLX78 | 15 x 1/2" | | | 2 | 80 |
| Plastic Valve with Handle | | | | | | |
| 300mm | PFLX37-H | 15 x 1/2" | | | 2 | 100 |

MERCHANDISING

WHITE FITTING DISPLAY STAND



NEW



| PART No. | SIZE | PRICE £ | QTY |
|------------|-------------|---------|-----|
| JG-STAND/C | 5.8' x 2.2' | | 1 |

Each stand will include :-
25 Trade Price Guides
Plus the following fittings

| Stand C | | | |
|---------------------|--------------|--|-----|
| PRODUCT | SIZE MM | | QTY |
| Straight | 15 | | 120 |
| Straight | 22 | | 60 |
| Elbow | 15 | | 100 |
| Elbow | 22 | | 50 |
| Tee | 15 | | 80 |
| Tee | 22 | | 30 |
| Stop End | 15 | | 80 |
| Stop End | 22 | | 30 |
| Female Connector | 15 x 1/2 | | 60 |
| Female Connector | 22 x 3/4 | | 25 |
| Tap Connector | 15 x 1/2 | | 30 |
| Tap Connector | 22 x 3/4 | | 25 |
| Service Valve | 15 | | 30 |
| Reducer | 22 x 15 | | 30 |
| Reducing Tee | 22 x 22 x 15 | | 15 |
| Washing Machine Tap | 15 x 3/4 | | 20 |
| Pipe Insert | 15 | | 500 |
| Pipe Insert | 22 | | 250 |

PRE-PACKED FITTING DISPLAY STAND



| PART No. | SIZE | PRICE £ | QTY |
|------------|---------|---------|-----|
| JG-Stand/P | 6' x 2' | | 1 |

The Stand will include:

| PRODUCT | SIZE | QTY |
|------------------------------|-----------|-----|
| Straight Connector | 15 | 10 |
| Straight Connector | 22 | 10 |
| Elbow | 15 | 10 |
| Elbow | 22 | 10 |
| Tee | 15 | 10 |
| Tee | 22 | 10 |
| Female Coupler/Tap Connector | 15 x 1/2" | 20 |
| Female Coupler/Tap Connector | 22 x 3/4" | 20 |
| Stop End | 15 | 20 |
| Stop End | 22 | 20 |
| Reducer | 22 x 15 | 10 |
| White Flexi Hose | 15 x 1/2" | 20 |
| White Flexi Hose | 22 x 3/4" | 20 |
| Washing machine Tap | 15 x 3/4" | 10 |
| Service Valve | 15 | 10 |
| Pipe Insert | 15 | 50 |
| Pipe Insert | 22 | 50 |
| Pipe Cutter | - | 1 |

Pipe not included.

FITTINGS DISPLAY STAND



NEW



| PART No. | SIZE | PRICE £ | QTY |
|------------|-------------|---------|-----|
| JG-STAND/7 | 5.8' x 2.2' | | 1 |

This stand is supplied without product.

BUILDERS MERCHANT STAND



| PART NO. | SIZE | PRICE £ | PACK QTY |
|-------------|---------|---------|----------|
| JG-Stand/BM | 6' x 2' | | 1 |

Each stand will include :-
Literature Dispenser, Header Board and the following fittings:

| PRODUCT | SIZE | QTY |
|--------------------------|---------------|-----|
| Equal Straight Connector | 25 | 5 |
| Equal Elbow Connector | 25 | 5 |
| Equal Tee Connector | 25 | 5 |
| Imperial Converter | 25 x 3/4 | 5 |
| Stop Cock | 25 x 22 | 5 |
| Stop Cock | 25 x 15 | 5 |
| PE-Copper Coupler | 25 x 22 | 5 |
| PE-Copper Coupler | 25 x 15 | 5 |
| End Stop | 25 | 5 |
| Wall Plate Elbow | 25 x 1/2" BSP | 5 |
| Tube Support | 25 | 50 |
| 300mm Flexi Hose FLX15P | 15 x 1/2 BSP | 10 |
| 300mm Flexi Hose FLX16P | 15 x 3/4 BSP | 10 |
| 300mm Flexi Hose FLX17P | 15 x 15 | 10 |
| 300mm Flexi Hose FLX22P | 22 x 3/4" BSP | 10 |

BLUE SPEEDFIT FITTINGS FOR MDPE STAND



| PART NO. | SIZE | PRICE £ | PACK QTY |
|--------------|---------|---------|----------|
| JG-Stand/UG2 | 6' x 2' | | 1 |

Each stand will include :-
Header Board
Trade Price Guides

| PRODUCT | SIZE | QTY |
|-----------------------------|---------------|-----|
| Equal Straight Connector | 20 | 6 |
| Equal Straight Connector | 25 | 6 |
| Reducing Straight Connector | 25 x 20 | 6 |
| PE-Copper Coupler | 20 x 15 | 6 |
| PE-Copper Coupler | 25 x 15 | 6 |
| PE-Copper Coupler | 25 x 22 | 6 |
| PE-Copper Coupler | 32 x 28 | 6 |
| Equal Elbow | 20 | 6 |
| Equal Elbow | 25 | 6 |
| Equal Tee | 20 | 6 |
| Equal Tee | 25 | 6 |
| Stop End | 20 | 6 |
| Stop End | 25 | 6 |
| Back Plate Elbow | 20 x 1/2" BSP | 6 |
| Back Plate Elbow | 25 x 1/2" BSP | 6 |
| Stop Tap | 25 x 15 | 4 |
| Stop Tap | 25 x 22 | 4 |
| Stop Tap | 25 x 25 | 4 |
| Pipe Insert | 20 | 60 |
| Pipe Insert | 25 | 60 |
| Imperial Converter | 20 x 1/2" | 6 |
| Imperial Converter | 25 x 3/4" | 6 |

PRE-PACKED PRODUCTS

Products packed in a bag with instructions



FOR MERCHANDISING SUPPORT
SEE PAGE 19

EQUAL STRAIGHT CONNECTOR



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-----------|---------|--------------|---------|---------|
| PEM0410WP | 10 | | 1 | 400 |
| PEM0415WP | 15 | | 1 | 250 |
| PEM0422WP | 22 | | 1 | 150 |
| PEM0428WP | 28 | | 1 | 75 |

Suitable for central heating systems.

REDUCING STRAIGHT COUPLER



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|---------|--------------|---------|---------|
| PEM201510WP | 15 x 10 | | 1 | 250 |
| PEM202215WP | 22 x 15 | | 1 | 200 |

Suitable for central heating systems.

EQUAL ELBOW



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-----------|---------|--------------|---------|---------|
| PEM0310WP | 10 | | 1 | 400 |
| PEM0315WP | 15 | | 1 | 250 |
| PEM0322WP | 22 | | 1 | 150 |
| PEM0328WP | 28 | | 1 | 75 |

Suitable for central heating systems.

REDUCING ELBOW



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|---------|--------------|---------|---------|
| PEM211510WP | 15 x 10 | | 1 | 250 |
| PEM212215WP | 22 x 15 | | 1 | 150 |

Suitable for central heating systems.

STEM ELBOW



Provides a swivel type connection.

| PART No. | PIPE | STEM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------|------|--------------|---------|---------|
| PEM221010WP | 10 | 10 | | 1 | 400 |
| PEM221015WP | 10 | 15 | | 1 | 300 |
| PEM221515WP | 15 | 15 | | 1 | 250 |
| PEM222222WP | 22 | 22 | | 1 | 200 |

Suitable for central heating systems.

Please note a Collet Cover cannot be used on a Speedfit end assembled with the stem of a 22mm Stem Elbow.

135° STEM ELBOW



| PART No. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|-------------|---------|---------|---------|---------|
| PEM571515WP | 15 | | 1 | 250 |
| PEM572222WP | 22 | | 1 | 150 |

Suitable for central heating systems.

EQUAL TEE



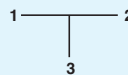
| PART No. | SIZE EACH | PRICE £ | BAG QTY | MM QTY |
|-----------|-----------|---------|---------|--------|
| PEM0210WP | 10 | | 1 | 300 |
| PEM0215WP | 15 | | 1 | 200 |
| PEM0222WP | 22 | | 1 | 100 |
| PEM0228WP | 28 | | 1 | 50 |

Suitable for central heating systems.

REDUCING TEE



Sizes listed as follows.



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|--------------|----------|--------------|---------|---------|
| PEM3015BWP | 15x10x10 | | 1 | 250 |
| PEM3015AWP | 15x15x10 | | 1 | 200 |
| PEM3022CWP | 15x15x22 | | 1 | 100 |
| PEM3022BWP | 22x15x15 | | 1 | 100 |
| PEM3022DWP | 22x15x22 | | 1 | 100 |
| PEM302210AWP | 22x22x10 | | 1 | 150 |
| PEM3022AWP | 22x22x15 | | 1 | 100 |
| PEM3028BWP | 28x22x22 | | 1 | 75 |
| PEM302815AWP | 28x28x15 | | 1 | 50 |
| PEM3028AWP | 28x28x22 | | 1 | 50 |
| PEM3028DWP | 28x22x28 | | 1 | 50 |

Suitable for central heating systems.

STOP END



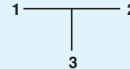
| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-----------|---------|--------------|---------|---------|
| PSE4610WP | 10 | | 1 | 500 |
| PSE4615WP | 15 | | 2 | 600 |
| PSE4622WP | 22 | | 2 | 400 |
| PSE4628WP | 28 | | 1 | 200 |

Suitable for central heating systems.

STEM TEE



Sizes listed as follows.



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|----------|--------------|---------|---------|
| PEM532210WP | 22x22x10 | | 1 | 150 |
| PEM532215WP | 22x22x15 | | 1 | 150 |

Suitable for central heating systems.

FEMALE COUPLER - TAP CONNECTOR

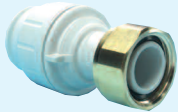


Requires hand tightening only.

| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|-----------|------------------|-----------------|------------|------------|
| PSE3210WP | 10 x 1/2" | | 2 | 600 |
| PSE3201WP | 15 x 1/2" | | 2 | 400 |
| PSE3203WP | 15 x 3/4" | | 2 | 400 |
| PSE3202WP | 22 x 3/4" | | 2 | 200 |

Suitable for central heating systems.
Note: Plastic threads are not as strong as metal threads.
For torque figures see Technical Checklist.

STRAIGHT TAP CONNECTOR



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------------------|-----------------|------------|------------|
| PEMSTC1014P | 10 x 1/2" | | 1 | 300 |
| PEMSTC1514P | 15 x 1/2" | | 1 | 200 |
| PEMSTC1516P | 15 x 3/4" | | 1 | 200 |
| PEMSTC2216P | 22 x 3/4" | | 1 | 200 |

Suitable for central heating systems.
With brass swivel nut and sealing washer.
For torque figures see Technical Checklist.

BENT TAP CONNECTOR



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------------------|-----------------|------------|------------|
| PEMBTC1014P | 10 x 1/2" | | 1 | 300 |
| PEMBTC1514P | 15 x 1/2" | | 1 | 200 |

Suitable for central heating systems.
With brass swivel nut and sealing washer.
For torque figures see Technical Checklist.

PIPE REPAIR KIT



| PART No. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|------------|------------|------------|------------|
| 15RKP | 15 | | 1 | 80 |
| 22RKP | 22 | | 1 | 50 |

Suitable for central heating systems.

Provides a simple way of repair on a rigid pipe run.
Remove a damaged section of pipe and replace with a repair kit

SLIP TEE CONNECTOR



| PART No. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|------------|------------|------------|------------|
| 15TKP | 15 | | 1 | 80 |
| 22TKP | 22 | | 1 | 40 |

Suitable for central heating systems.

Provides a simple way to break into an existing pipe run

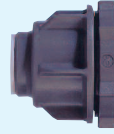
REDUCER



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------------|-----------------|------------|------------|
| PEM061510WP | 15 x 10 | | 1 | 400 |
| PEM062215WP | 22 x 15 | | 1 | 250 |
| PEM062815WP | 28 x 15 | | 1 | 200 |
| PEM062822WP | 28 x 22 | | 1 | 150 |

Suitable for central heating systems.

TANK CONNECTOR



Requires hand tightening only.

Maximum wall thickness of tank = 4mm.

| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| CM0715SP | 15 | | 1 | 200 |
| CM0722SP | 22 | | 1 | 100 |

Suitable for cold water tanks only.

4 WAY MANIFOLD



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------------|-----------------|------------|------------|
| SFM512210EP | 22 x 10 | 11.87 | 1 | 150 |

Suitable for central heating systems.

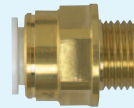
4 PORT RAIL MANIFOLD



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|-------------|------------|-----------------|------------|------------|
| SFM522210EP | 22 x 10 | | 1 | 50 |
| SFM522215EP | 22 x 15 | | 1 | 40 |

Suitable for central heating systems.

BRASS MALE COUPLER



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|------------|------------------|-----------------|------------|------------|
| 15MC(1/2)P | 15mm x 1/2" | | 1 | 50 |
| 22MC(3/4)P | 22mm x 3/4" | | 1 | 50 |

Suitable for central heating systems.

Manufactured in DZR Brass.

BRASS BACK PLATE ELBOW



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------------|-----------------|------------|------------|
| 15WBP | 15 x 1/2" | | 1 | 25 |

Suitable for central heating systems.

Manufactured in DZR Brass.

BRASS MALE CYLINDER ADAPTOR



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------------|-----------------|------------|------------|
| 22CMAP | 22 x 1" | | 1 | 40 |

Suitable for central heating systems.

Manufactured in DZR Brass.

BRASS FEMALE CYLINDER ADAPTOR



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------------|-----------------|------------|------------|
| 22CFAP | 22 x 1" | | 1 | 30 |

Suitable for central heating systems.

Manufactured in DZR Brass.

pre-pacKed products continued
Products packed in a bag with instructions



For merchandising support
see page 19

pre pacKed VALVES

plastic ser Vice VALVe •



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------|-----------------|------------|------------|
| 15sVp | 15 | | 1 | 200 |
| 22sVp | 22 | | 1 | 150 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

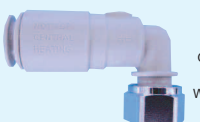
plastic ser Vice VALVe With tap connector •



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | Box QTY |
|------------------|------------------|-----------------|------------|------------|
| Grey 15sVstcp | 15 x 1/2" | | 1 | 200 |
| White 15sVstc-Wp | 15 x 1/2" | | 1 | 200 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

plastic angle ser Vice VALVe With tap connector •



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | Box QTY |
|------------------|------------------|-----------------|------------|------------|
| Grey 15sVBtcp | 15 x 1/2" | | 1 | 200 |
| White 15sVBtc-Wp | 15 x 1/2" | | 1 | 200 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.



stop VALVe



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------|-----------------|------------|------------|
| 15stVp | 15 | | 1 | 100 |
| 22stVp | 22 | | 1 | 50 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

Brass stop VALVe



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------|-----------------|------------|------------|
| 15Bscp | 15 | | 1 | 10 |

Only suitable for central heating systems.
Manufactured in DZR Brass.

Washing machine tap •



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------------|-----------------|------------|------------|
| 15aptp | 15 x 3/4" | | 1 | 200 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.
For maximum torque figures on plastic thread,
please see Technical Checklist.

appliAnce tee •



| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------------|-----------------|------------|------------|
| 15apt2p | 15 x 3/4" | | 1 | 150 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.
For maximum torque figures on plastic thread,
please see Technical Checklist.

emer gencY shut oFF tap •



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------|-----------------|------------|------------|
| 15esotp | 15 | | 1 | 200 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

Brass chrome plated ser Vice VALVe •



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | Box QTY |
|----------|------------|-----------------|------------|------------|
| 10hsVp | 10 | | 1 | 50 |
| 15hsVp | 15 | | 1 | 50 |
| 22hsVp | 22 | | 1 | 20 |

Suitable for central heating systems.

BRASS CHROME PLATED SERVICE VALVE WITH TAP CONNECTOR ●



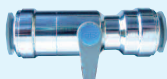
| PART No. | SIZE MM X BSP | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------------|-----------------|------------|------------|
| 15PTSVP | 15 x 1/2" | | 1 | 50 |
| 22PTSVP | 22 x 3/4" | | 1 | 20 |

Suitable for central heating systems.

BRASS CHROME PLATED BALL VALVE ●



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| 15BVP | 15 | | 1 | 40 |
| 22BVP | 22 | | 1 | 20 |



Suitable for central heating systems.
Each valve has a red and a blue indice.

BRASS DRAIN COCK



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| 15BDCP | 15 | | 1 | 50 |

Suitable for central heating systems.
Manufactured in DZR Brass.
Speedfit Drain Cocks cannot be used where collet covers are fitted.
They can be used with a standard fitting fitted with a collet clip.

DOUBLE CHECK VALVE



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| 15DCVP | 15 | | 1 | 200 |

Not suitable for central heating systems.
Hot and Cold water only, 65°C maximum.

1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

Do Not use these Valves:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".

1/4 Turn Valves are indicated by this marker '●'

PRE-PACKED PIPE & PIPE ACCESSORIES SPEEDFIT PEX BARRIER PIPE



| PART No. | SIZE MM X M | PRICE PER COIL £ | PACK QTY | BOX QTY |
|------------|----------------|---------------------|-------------|------------|
| 10BPEX-25C | 10 x 25 | | 1 | 20 |
| 15BPEX-25C | 15 x 25 | | 1 | 8 |
| 15BPEX-50C | 15 x 50 | | 1 | 5 |
| 22BPEX-25C | 22 x 25 | | 1 | 8 |
| 22BPEX-50C | 22 x 50 | | 1 | 5 |

British Gas accepted for water pipe in vented and sealed central heating systems.

Suitable for central heating systems.

SPEEDFIT PEX BARRIER PIPE



| PART No. | SIZE MM X M | PRICE £ PER PACK | PACK QTY |
|--------------|----------------|---------------------|-------------|
| 15BPEX-20X2L | 15 x 2 | | 20 |
| 15BPEX-20X3L | 15 x 3 | | 20 |
| 22BPEX-20X2L | 22 x 2 | | 20 |
| 22BPEX-20X3L | 22 x 3 | | 20 |
| 28BPEX-10X3L | 28 x 3 | | 10 |

Straight lengths.
15 & 22mm in packs of 20.
28mm in packs of 10.

Suitable for central heating systems.

PIPE INSERT



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| TSM10NP | 10 | | 10 | 5000 |
| TSM15NP | 15 | | 10 | 3000 |
| TSM22NP | 22 | | 5 | 1000 |
| TSM28NP | 28 | | 5 | 500 |

To be used when connecting Speedfit Pipe to a Speedfit fitting or a compression fitting.

Suitable for central heating systems.

SUPERSEAL PIPE INSERT



| PART No. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|------------|------------|------------|------------|
| STS10P | 10 | | 10 | 5000 |
| STS15P | 15 | | 10 | 3000 |
| STS22P | 22 | | 5 | 1000 |

To be used with Speedfit Pipe and Speedfit fittings, to give enhanced sealing.

Suitable for central heating systems.

See page 4 for details.

NAIL CLIP



| PART No. | SIZE MM | PRICE EACH £ | BAG QTY | BOX QTY |
|----------|------------|-----------------|------------|------------|
| NPC10P | 10 | | 20 | 5000 |
| NPC15P | 15 | | 20 | 2000 |
| NPC22P | 22 | | 10 | 1000 |

PIPE CUTTER



| PART No. | PRICE EACH £ | PACK QTY | BOX QTY |
|----------|-----------------|-------------|------------|
| JG-TS | | 1 | 30 |

For up to 22mm size pipe.

Speedfit® Blue

FITTINGS FOR COLD WATER SERVICES ABOVE AND BELOW GROUND



This range of fittings for MDPE Pipe has an improved collet with stainless steel teeth to provide extra grip on the pipe and has WRAS Approval.



APPLICATIONS

Speedfit underground fittings for MRS PE80 metric size polyethylene cold water service pipe have been designed for connection of:

1. **Blue MDPE pipes to BS 6752** - used for underground service pipes for potable water.
2. **Black MDPE pipes to BS 6730** - used for conveyance of potable water above ground or for industrial services above or below ground.
3. **Blue pipe to BS EN 12201-2, 20mm PN16, 25mm and 32mm PN12.5.**

Making the connection could not be easier. All you need is the pipe, the fitting and a pair of hands. The range is designed to provide a long service life and includes adaptors for screwed pipe, copper and imperial sized LDPE.



INSTALLATION BENEFITS

- Easy to use in confined spaces, no tools required.
- Fast installation with resulting cost savings.
- Lightweight and slimline.
- Ready for immediate installation, no dismantling.
- No adjustments required after fitting.
- Adaptors for screwed pipe, copper and imperial LDPE.

PERFORMANCE BENEFITS

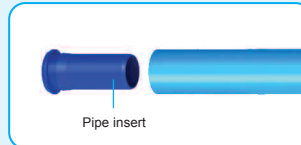
- Maintenance free.
- Durable with high resistance to impact.
- Patented collet ensures high resistance to pull out.
- Lead free and non toxic.
- Will not support biological growth.
- A reliable and trouble free leakproof connection.

The Technical Checklist for Cold Water Services Fittings is on page 39.

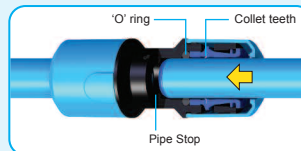
MAKING A GOOD CONNECTION



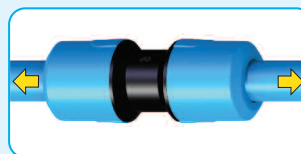
Cut pipe square using pipe cutters remove burrs and sharp edges.



Always use a Speedfit Pipe Insert, which must be fully inserted.

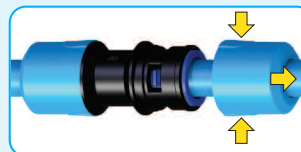


Push the pipe into the fitting, up to the pipe stop. The Stainless Steel teeth grip the pipe, the "O" ring provides a permanent leakproof seal.

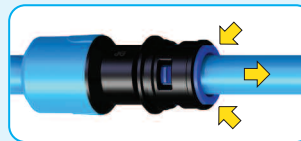


Pull to check the system is secure then test the system to ensure it is water tight.

TO DISCONNECT



Ensure the system is depressurised. Remove the Collet Cover by sliding it along the pipe. Squeezing the raised portions will aid removal.



Push the Collet square against the fitting. With the Collet held in this position, the pipe can be withdrawn.



Sales support material for this range includes Counter Mats and Display Stands.

FOR DISPLAY STAND SUPPORT SEE PAGE 20.

EQUAL STRAIGHT CONNECTOR



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG401B | 20 | | 1 | 100 |
| UG402B | 25 | | 1 | 60 |
| UG403B | 32 | | 1 | 40 |

Cold water only

REDUCING STRAIGHT CONNECTOR



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG501B | 25 x 20 | | 1 | 80 |
| UG502B | 32 x 25 | | 1 | 50 |

Cold water only

PE-COPPER COUPLER



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG601B | 20 x 15 | | 1 | 150 |
| UG603B | 25 x 15 | | 1 | 100 |
| UG602B | 25 x 22 | | 1 | 80 |
| UG604B | 32 x 28 | | 1 | 60 |

Cold water only

Used to connect PE Pipe to copper or Speedfit Plumbing Pipe. Must not be buried directly into ground, soil, concrete or other substrates.

MALE ADAPTOR



| PART NO. | SIZE MM | PRICE £ | QTY BAG | BOX QTY |
|----------|------------------|---------|---------|---------|
| UG101B | 20 x 1/2" BSP | | 1 | 150 |
| UG102B | 25 x 3/4" BSP | | 1 | 100 |
| UG103B | 32 x 1" BSPT | | 1 | 60 |
| UG104B | 32 x 1.1/2" BSPT | | 1 | 80 |

Cold water only

FEMALE ADAPTOR



| PART NO. | SIZE MM X BSP | PRICE £ | BAG QTY | BOX QTY |
|----------|---------------|---------|---------|---------|
| UG4501B | 20 x 1/2" | | 1 | 100 |
| UG4502B | 25 x 3/4" | | 1 | 100 |

Cold water only

EQUAL ELBOW



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG301B | 20 | | 1 | 100 |
| UG302B | 25 | | 1 | 50 |
| UG303B | 32 | | 1 | 30 |

Cold water only

BACK PLATE ELBOW



| PART NO. | SIZE MM X BSP | PRICE £ | BAG QTY | BOX QTY |
|-----------|---------------|---------|---------|---------|
| UGPWB2014 | 20 x 1/2" | | 1 | 100 |
| UGPWB2514 | 25 x 1/2" | | 1 | 70 |
| UGPWB2516 | 25 x 3/4" | | 1 | 70 |

Cold water only

WING BACK ELBOW



| PART NO. | SIZE MM X BSPT | PRICE £ | BAG QTY | BOX QTY |
|-----------|----------------|---------|---------|---------|
| UGPWB1514 | 15 x 1/2" | | 1 | 150 |

Cold water only

STEM ELBOW



| PART NO. | PIPE OD MM | STEM OD MM | PRICE £ | BAG QTY | BOX QTY |
|-----------|------------|------------|---------|---------|---------|
| UG222025B | 20 | 25 | | 1 | 100 |
| UG222525B | 25 | 25 | | 1 | 80 |
| UG223232B | 32 | 32 | | 1 | 50 |

Cold water only

Stem cannot be disconnected from mating connector with collet cover fitted.

EQUAL TEE



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG201B | 20 | | 1 | 50 |
| UG202B | 25 | | 1 | 40 |
| UG203B | 32 | | 1 | 15 |

Cold water only

REDUCING TEE



| PART NO. | SIZE ENDS | SIZE BRANCH | PRICE £ | BAG QTY | BOX QTY |
|----------|-----------|-------------|---------|---------|---------|
| UG232AB | 32 | 25 | | 1 | 15 |

Cold water only

REDUCER



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|-----------|---------|---------|---------|---------|
| UG063228B | 32 x 28 | | 1 | 75 |

Cold water only

STOP END



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG4620B | 20 | | 1 | 150 |
| UG4625B | 25 | | 1 | 100 |

Cold water only

STOP TAP - MDPE x MDPE



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|-----------|---------|---------|---------|---------|
| UGSTV2020 | 20 | | 1 | 40 |
| UGSTV2525 | 25 | | 1 | 30 |
| UGSTV3232 | 32 | | 1 | 15 |

Cold water only

The two Stoptaps for 15 or 22mm copper or PEX Pipe must not be buried directly into ground, soil, concrete or other substrates.

STOP TAP - MDPE x COPPER OR PEX



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|-----------|---------|---------|---------|---------|
| UGSTV2515 | 25 x 15 | | 1 | 40 |
| UGSTV2522 | 25 x 22 | | 1 | 40 |

Cold water only

The two Stop Taps for 15 or 22mm copper or PEX Pipe must not be buried directly into ground, soil, concrete or other substrates.

PLUGS



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|---------|---------|---------|
| UG801E | 20 | | 1 | 50 |
| UG802E | 25 | | 1 | 40 |
| UG803E | 32 | | 1 | 30 |

Cold water only

PIPE INSERT



| PART NO. | SIZE MM | PRICE £ | BAG QTY | BOX QTY |
|-------------|---------|---------|---------|---------|
| UTS147 - DB | 20 | | 10 | 200 |
| UTS197 - DB | 25 | | 10 | 150 |
| UTS251 - DB | 32 | | 2 | 300 |

IMPERIAL CONVERTER



| PART NO. | STEM MM | IMPERIAL PIPE SIZE | PRICE £ | BAG QTY | BOX QTY |
|----------|---------|--------------------|---------|---------|---------|
| UGICO1 | 20 | 1/2" | | 1 | 100 |
| UGICO2 | 25 | 3/4" | | 1 | 80 |

Supplied with inch size Pipe Insert

To convert metric size fitting for use with imperial size LDPE to BS1972 Class C. Stem cannot be disconnected from mating connector with collet cover fitted.

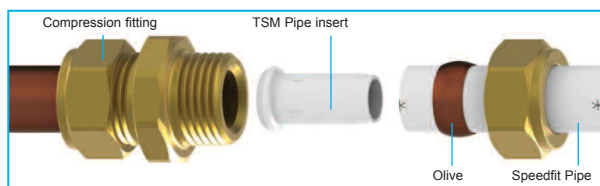
SYSTEM CONNECTIONS

CONNECTION TO COMPRESSION FITTING

Many but not all compression fittings are suitable for use with plastic fittings and pipe. Users should therefore check for compatibility. Compression fittings with short tube stop depth or brass olives should not be used with plastic fittings or pipe.

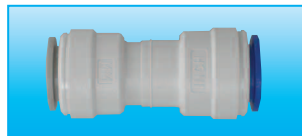
When using compression fittings with Speedfit pipe, a Standard Pipe Insert (prefix TSM) must be used to withstand the compressive pressure of the olive. The olive must be located within the length of the pipe insert and the pipe fully inserted into the fitting. The connection should not need more than 2 full turns after the olive has gripped the pipe. JG Speedfit recommend the use of soft copper olives.

Ensure nut and olive are in place before inserting pipe insert.



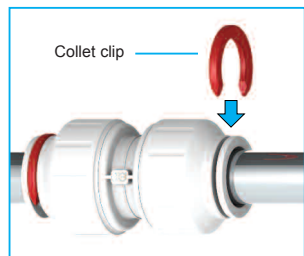
CONNECTION TO IMPERIAL PIPE AND FITTINGS

The Speedfit Range includes couplers to connect Speedfit Pipe to 1/2" to 1" BSP and BSPT. See page 13.



Fittings to connect imperial pipe to metric are shown on page 16.

CONNECTION TO CHROME-PLATED COPPER PIPE



Speedfit fittings can be connected onto chromium plated copper pipe if the chromium plating is completely removed to the full depth of the fitting. To ensure maximum grip, the fitting of a collet clip is recommended.

Speedfit fittings can be connected onto chromium plated copper pipe if the chromium plating is completely removed to the full depth of the fitting. To ensure maximum grip, the fitting of a collet clip is recommended.

It is not possible to connect Speedfit fittings to Stainless Steel Pipe.

CONNECTION TO MAINS SUPPLY

In modern properties, water enters a building usually in blue MDPE (medium density polyethylene) pipe. In order to comply with Water Regulation Schedule 2.10, the internal plumbing system should be connected via a Speedfit Stop Tap from our Cold Water Services Range, Part No.'s UGSTV2515, 25mm x 15mm or UGSTV2522, 25mm x 22mm.

Connection of Speedfit Pipe to supply pipe of other materials should be via a stop tap with a 15mm or 22mm compression outlet.

CONNECTION TO BOILERS

Speedfit pipe should never be connected directly to a boiler.

Although most modern boilers have a high limit thermostat, residual heat can be conducted by the heat exchanger. Therefore, Speedfit recommend a minimum of 1 metre from the boiler casing should be run in copper pipe unless otherwise stated in the boiler manufacturer's installation literature.

A gravity primary circuit operating on an uncontrolled cooking range or solid fuel boiler should be run entirely in copper and the heating circuit run in copper for the first metre.

Refer to BS 5955: Part 8 for further clarification.

All appliances should have safety devices to make sure they cannot operate above the working temperature and pressure range set out in our Technical Checklist on page 38. If safety devices are not incorporated within the appliance then external controls will be needed.

Water meters (and other devices) can contain check valves that prevent the expansion of heated water back down the main supply from a combi boiler. If plastic pipe is to be used, a suitable expansion vessel must be fitted. This is especially important to consider if a water meter is fitted retrospectively. Speedfit do not recommend the use of plastic pipe on the main supply between a water meter and a combi boiler if an expansion vessel is not fitted.

Speedfit Products should not be fitted to a sealed system oil boiler, a back fired boiler or other uncontrolled heat source.

Please also see **Drop-Pipe Systems** on page 28 and **System Commissioning and Flushing** on page 32.

CONTINUOUSLY OPERATED RE-CIRCULATING SYSTEMS (SECONDARY HOT WATER CIRCULATION/RING MAIN INSTALLATIONS):

A continuously operated re-circulating system is a water-replenished circulating system which is maintained at a constant high temperature to provide a constant source of hot water. Continuously operated re-circulating systems are used to distribute constant hot water to draw off points that may be distant from the source or hot water storage vessel.

Continuously operated re-circulating systems are very different from conventional hot water supply and central heating systems found in domestic properties, for which our products have been tested to, under either BS7291:2010 Class S or WRAS approval standards, and for this reason Speedfit products must not be used on any continuously operated re-circulating systems as they are not approved under the current version of these standards.

UNVENTED PRESSURISED CYLINDERS

Unvented Pressurised Cylinders can be installed using Speedfit pipe and fittings. However if the safety parameters of the cylinder exceed those of the pipe and fittings it is possible to fit a pressure reduction valve on the out going hot supply pipe. This will not interfere with any other cylinder safety

devices demanded by regulations as they are all fitted in the incoming side of the cylinder.

Run a short length of copper pipe from the cylinder connection (about 150mm - 300mm) then fit a suitable pressure reduction valve. This will protect the pipe and fittings from excessive pressure in the event of boiler / cylinder malfunction. The factory fitted temperature / pressure relief valve on the cylinder will discharge below 100°C therefore protecting the pipe from excessive temperature.

CONNECTION TO CYLINDERS & WATER HEATERS

Speedfit can be used on sealed and open vented heating systems, where boilers are either heating a hot water storage cylinder or instantaneous hot water such as a combination boiler. The temperature and pressure limits of the system must not exceed the maximum values stated under the heading 'Working Temperatures and Pressures'.

When using a traditional copper vented cylinder Speedfit Pipe and Fittings can be installed with direct connections to the cylinder. Unvented pressurised cylinders can be installed using Speedfit Pipe and Fittings. However, insertion depths on compression joints that form part of the cylinder must be checked prior to installation and the use of standard pipe inserts (Prefix TSM) is recommended.

In accordance with current U.K. Building Regulations (Part G), discharge pipes from temperature and/or pressure relief valves must be run in metal pipework.

Speedfit connections to combined Cylinder/Boiler units and Thermal Storage Units must be made outside the casing unless otherwise stated in manufacturers installation literature.

DROP-PIPE SYSTEMS

Care should be taken when designing and installing a central heating system where radiators are supplied by pipe work which drops from an upper floor.

With this kind of system it is possible to trap air in the upper floor pipe work. When the boiler is fired the increase in pressure within the pipe caused by expanding air could cause the pipe to burst.

It is therefore essential that the system be designed so that any air can be removed from the system either automatically or manually by installing automatic or manual air vents at the highest points of the system.

CONNECTION TO PUMPS AND VALVES

Speedfit Pipe should be connected to circulating pumps and motorised valves in accordance with the section in this book headed, "Connecting Plastic Pipe To Compression Fittings". If Speedfit Pipe is not mounted on a supporting structure, the pipe must be clipped close to the component's connections to ensure adequate support and to assist in the reduction of vibration.

For heavier equipment, ensure that appropriate metal brackets provide full and independent support of the components and that it does not rely solely on the pipework for support.

CONNECTION TO COPPER PIPE

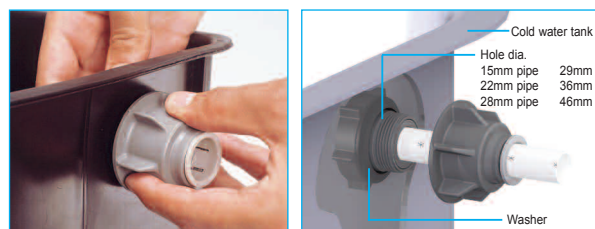
The minimum distance to make a solder connection on copper pipe inserted into a Speedfit Fitting is 450mm (18 inches). Ensure that any residual flux solder is not allowed to come in contact with the fitting. That same measurement is the safe distance to use a freezer kit to Speedfit Pipe.

CONNECTING TO COLD WATER STORAGE TANK

To install the Speedfit Tank Connector, unscrew the nut and push the body of the fitting through the tank hole with the washer on the inside of the tank. Hand tighten the nut onto the body. Push the pipe into the connector.

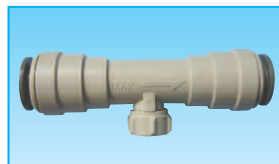
Note: Hand tightening the nut onto the body is all that is required. Further mechanical tightening will damage the fitting.

Maximum wall thickness of tank 4mm



PREVENTING BACK FLOW

The Speedfit Range includes a Double Check Valve (Part No 15DCV) to enable installers to comply with Water Regulation Schedule 2.15, thus preventing contamination of water arising from back siphonage, backflow or cross connection. Suitable for use with fluid categories 1, 2 and 3 only.



RADIATOR CONNECTIONS

The most common way of running pipework to a radiator is to run both flow and return pipes central to the radiator position.

The pipes exit a single gang box (fitted with rubber grommets) located at the mid height of the finished radiator position. This also provides a fixed point for other trades to work to and reduces the risk of damage to the pipework.

Once the plasterboard is installed the pipes are passed through the Speedfit Radiator Outlet Plate to exit plasterboard without the need of unsightly holes.



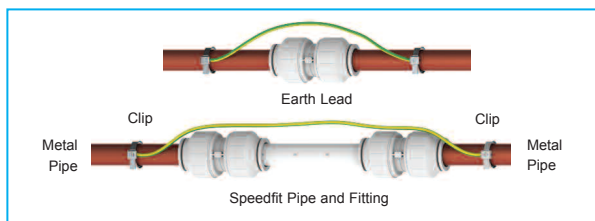
Metal reducing sets which convert radiator valves from 15mm to 10mm are not suitable for use with Speedfit Fittings or Pipe as they can cause damage to the plastic.

ELECTRICAL CONTINUITY

The plumbing or heating system installer should have these aspects checked to ensure compliance with current IEE Regulations. If in doubt please contact the Speedfit Technical Advisory Service or consult your local Electricity Authority.

IEE Guidance Note 7 provides useful guidance on the design of electrical installations where there is increased risk of electric shock. It recognises that the requirement for supplementary bonding may be relaxed where metal taps and plastic pipes supply other bathroom fittings.

Similarly a metal bath or radiator not connected to an extraneous-conductive-part is not required to be connected to the local supplementary conductors.



SUPPLEMENTARY BONDING TO BATHROOMS

| Pipe Material | | | Supplementary Bond Required Between | Comments |
|---------------|-----------|-----------------|--|---|
| Cold Water | Hot Water | Central Heating | | |
| P | P | P | Earth terminals of protective conductors of class I and of class II equipment and accessible exposed conductive parts of the building structure. | Bonding of metal taps metal radiators or metal baths is not required unless the bath is connected to the metallic building structure. |
| P | M | M | Hot water pipe, central heating pipes, earth terminals of protective conductors of class I and class II equipment and accessible exposed conductive parts of the building structure. | A bond is not required to the taps either hot nor cold, or to metal baths unless connected to the metallic building structure. |
| P | P | M | Central heating pipes, the earth terminals of protective conductors of class I and class II equipment and access to exposed conductive parts of the building structure. | Bonding of metal water taps is not required, nor metal baths unless connected to the metallic building structure. |
| M | M | M | All metal pipes, earth terminals of protective conductors class I and class II equipment, and accessible exposed conductive parts of the building structure. | Metal pipes themselves can be used as bonding conductors if joints are metal to metal and electrically continuous. |
| M | M | P | All metal pipes, earth terminals of protective conductors of class I and class II equipment, and accessible exposed conductive parts of the building structure. | Metal central heating radiator does not require bonding. |

P = Plastic M = Metal NB: All Waste Pipes are plastic.

- Supplementary bonding is carried out to the earth terminal protective conductors of class I and class II equipment within the bathroom. A supplementary bond is not run back to the main earth.
- Metal window frames are not required to be supplementary bonded unless they are electrically connected to the metallic structure of the bonding.
- Metal baths supplied by metal pipes do not require supplementary bonding if all the pipes are bonded and there is no other connection of the bath to earth.
- All bonding connections must be accessible and labelled "Safety Electrical Connection - Do Not Remove".

CONNECTING TO OTHER PLUMBING FIXTURES

As shown in the Product Range List, the Speedfit Range of fittings includes valves, taps, adaptors and connectors for the plumbing of all typical domestic appliances and fittings.

DISCHARGE PIPES

Speedfit Pipe should not be used to provide the discharge from unvented cylinders, unvented water heaters and sealed systems via the temperature relief and pressure relief valves.

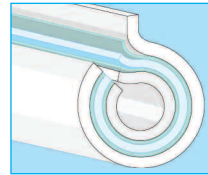
WATER HEATERS

Speedfit recommend that mains supply pipework to unvented water heaters (up to 15ltr capacity), be run in metal pipes.

INSTALLING PIPEWORK

SPEEDFIT BARRIER PIPE

Speedfit Barrier Pipe is manufactured to BS 7291 Parts 1, 2 and 3 Class S and is Kitemarked.



It is made up of 5 layers, the centre of which is a blue coloured oxygen barrier which prevents the ingress of air into the system, thereby reducing the effect of corrosion on metal components. Because of its low thermal conductivity

when carrying hot water, Speedfit Pipe is cooler and therefore safer to touch. Relatively low heat loss through radiation means that a system retains its heat longer and delivers hot water more quickly and with less wastage than a metal system.



The pipe is available in coils and straight lengths. See page 13. Pipe markings are spaced to aid the making of a good connection when using a Superseal Pipe Insert.

PIPEWORK SIZING

For general guidance on pipework sizing, please refer to BS EN 806 and complimentary guidance document BS 8558, or the Institute of Plumbing Engineering Services Design Guide. Speedfit Fittings are suitable for pipes within ± 0.1 mm of nominal size. They can be used with copper pipe to BS EN 1057 or Speedfit Plastic Pipe.

The Product Range List shows the fittings available for reducing pipe diameters within the system.

Speedfit Pipe is available in straight lengths and coils.

PIPE BENDING

Gentle bends can be made with pipe clips on either side of the curve, positioned to maintain the bend radius.



Tighter bends can be achieved by using the cold forming bends shown on page 16.



Internal Bending Springs are available in 10mm to 22mm sizes. See page 16.

It is also possible to bend Speedfit Pipe using a standard pipe bender. The pipe should not be heated with a blowlamp or hot air gun.

Minimum bend radii for Speedfit pipe (BPEX and BPB) are as follows:

| Speedfit Min Radius | Pipe Diameter | | | |
|--------------------------------|---------------|-------|-------|-------|
| | 10mm | 15mm | 22mm | 28mm |
| with Cold Forming Bends | 30mm | 75mm | 110mm | - |
| with Clips | 100mm | 175mm | 225mm | 300mm |

| BPB Min Radius | Pipe Diameter | | | |
|--------------------------------|---------------|-------|-------|------|
| | 10mm | 15mm | 22mm | 28mm |
| with Cold Forming Bends | 30mm | 75mm | 110mm | - |
| with Clips | 80mm | 120mm | 176mm | - |

For bends of radii smaller than those shown, standard elbow fittings are recommended.

PIPE SUPPORT AND CLIPPING

There are two types of pipe clip in the Speedfit Range.



Firstly, a nail clip is used for fixing to timber when running concealed pipe work i.e. underfloor or in a roof space. This clip takes less time to fit and is compact which allows pipework to be fixed close together when space is at a premium.



The second type uses a screw and therefore takes a little longer to fix. When pipes are required to cross over, it is possible to add a spacer to the clip. This will give room between the pipe and the wall to allow the pipes to cross over. If pipework needs to be insulated, using the spacer will give room for the lagging to be applied.

Pipe clips should not be fitted any closer than 60mm from the end of the fitting to allow for expansion. Pipes should always be adequately supported to prevent undue stress or side load on the fittings.

RECOMMENDED CLIP SPACING

For surface mounted pipes.

| Pipe Diameter | Clip Spacing | |
|---------------|----------------|--------------|
| | Horizontal Run | Vertical Run |
| 10 - 15mm | 300mm | 500mm |
| 22mm | 500mm | 800mm |
| 28mm | 800mm | 1,000mm |

PIPE SIZING

For general guidance on pipework sizing, please refer to BS EN 806 and complimentary guidance form BS 8558, and BS EN 12828 or the Institute of Plumbing Engineering Services Design Guide. Speedfit Fittings are suitable for connection to pipe sizes within ± 0.1 mm of nominal size.

The maximum heat carrying capacity and flow of Speedfit Pipe, based on 1.2m/s velocity and an 11°C temperature drop is shown in the table below.

| Pipe size | Max Capacity KW | Max Flow litres/sec | Headloss m/m pipe |
|-----------|-----------------|---------------------|-------------------|
| 10mm | 1.948 | 0.042 | 0.283 |
| 15mm | 5.941 | 0.129 | 0.139 |
| 22mm | 13.604 | 0.295 | 0.084 |
| 28mm | 21.991 | 0.478 | 0.062 |

PIPEWORK INSULATION

The insulation requirements for Speedfit Pipe are the same as those for copper and should comply with BS EN 806 and complimentary guidance form BS 8558, and BS5422.

CONCEALED PIPEWORK

The flexibility of Speedfit Pipe gives it the ability to be threaded through concealed or inaccessible spaces without disruption to surrounding structures, making major savings in installation time.

Pipework can be "cabled" through drilled holes in joists and rafters. Therefore, pipework can be installed after floorboards have been laid, working below the floor before the ceiling is installed.

This makes site work far safer as the installer does not have to balance on open joists with the risk of dropping tools or equipment on other people below.

This will also eliminate the risk of damage by floorboard nails. There is no need for dry runs since pipe can be cut and connections made in-situ.

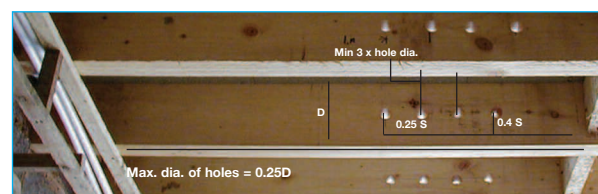
Rigid pipe, such as copper, can only be fed under floor in short lengths. However, Speedfit Pipe, being flexible, can run from one fitting to another without having to install a connector in between.

Speedfit needs no jointing materials, eliminating the risk of fire from the use of a blowlamp, solder and flux.

TRADITIONAL JOISTS

Instructions on the drilling of joists is given in the Building Regulations Approved Document A, and summarised as follows:

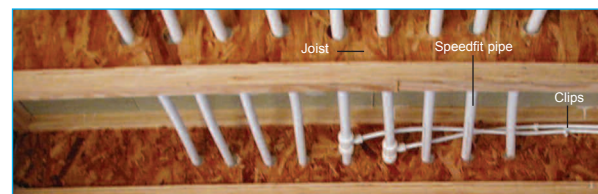
- Holes should be no greater than 0.25 of the depth of the joist.
- Holes should be drilled at the neutral axis.
- Holes should not be less than 3 diameters (centre to centre) apart.
- Holes should be located between 0.25 and 0.4 times the span from the support.



TIMBER I BEAM JOISTS

Several types of joists are available and Speedfit recommends that specific manufacturers details are consulted. However, the following can be used for general guidance.

- Holes may be located vertically anywhere in the web, but leave 3mm web at the top and/or bottom of hole. Do not cut into joist flanges when cutting the web.
- If more than one hole is to be cut in the web, the distance between the edges of the holes must be at least 2x diameter of the largest hole.
- Generally joists are manufactured with 38mm perforated knockouts in the web at approximately 300mm centres along the length of the joist.



CROSS WEB JOISTS

Unlike I beam joists, pipe can be cabled anywhere within the open Web as no drilling is required. However, the top and bottom flanges must not be notched. Avoid damaging the outside diameter of the pipe as you cable through the metal cross web members.



TIMBER FRAMED CONSTRUCTION

Speedfit is well suited for timber frame construction. Ensure that the structural integrity is not compromised when installing the pipework. If the pipe passes through an external wall, care must be taken not to damage the vapour barrier and should be installed on the inside of the thermal insulation layer.

If this is not possible, the use of conduit should be specified at the design stage.

STEEL FRAMED CONSTRUCTION

Speedfit is well suited for steel frame construction and care should be taken when installing the pipework. All runs should be installed through preformed holes in the structure and protected by a rubber or plastic grommet.

Where clipping of pipework is restricted, cable ties may be used to secure the pipe. As with all installations, make sure that any pipework passing through walls and floors does not affect the fire resistant properties of the structure.

DRY LINED WALLS

Speedfit Pipework can be easily cabled through studwork and within wall systems as well as behind "dot and dab" plasterboard installations. Speedfit 10mm Barrier Pipe is most commonly used to feed radiators. If incorporating fittings in this way, collet covers or collet clips must be used with the **Standard** Range of Fittings.

WET PLASTER

To prevent surface damage to the plaster caused by expansion and contraction of Speedfit Pipes, it is important to ensure that all Speedfit Pipework is channelled into the wall and protected with appropriate sleeving. Alternatively, the pipework can be surface mounted and boxed in if required for aesthetic appearance.

LAYING OF PIPE IN CONCRETE AND MASONRY

Speedfit Pipe and Fittings can be laid in concrete and masonry providing they are installed in conduit pipe with access boxes for the fittings. As stated in Water Regulation Schedule 2.7 and BS 8000 : Part 15, fittings and pipe should be removable for possible replacement. Insulation is also recommended to protect against heat loss and the effects of



frost. Speedfit Conduit Pipe is in either 15mm or 22mm in coil lengths of 25m or 50m. The flexible convoluted pipe has an outside diameter of 24mm and 30mm.

EXPOSED PIPEWORK

On long exposed runs of pipework, the expansion of Speedfit Pipe when warm (1% on length between 20 to 82°C) can cause it to sag between clip fixings. When this is undesirable, pipework can be boxed in or replaced with rigid copper pipe.

Speedfit Pipe and Fittings are stabilised to withstand limited exposure to ultra-violet radiation in sunlight but are not designed for permanent direct exposure. Under such conditions painting or lagging is required. Pipe and fittings should also be lagged to prevent frost damage.

CHEMICAL EFFECTS

Only water or oil based paints should be used. Do not allow Speedfit fittings to come into contact with jointing compounds, cellulose based paints, paint thinners or strippers, solder flux, acid based descalents or aggressive cleaning products including those below pH4, high in hypochlorite (e.g. bleach) or containing hydrogen peroxide. (See the DISINFECTION OF HOT AND COLD WATER SYSTEMS section of the installation advice for specifically permitted disinfection procedures).

If there is a risk of any chemical treatments coming into contact with Speedfit, please contact the Technical Advisory Service first to check compatibility.

FLUXES AND SPEEDFIT

JG Speedfit does not recommend that fluxes of any type come into contact with our pipe and fittings. However, if fluxes are to be used in an environment where Speedfit is installed then we recommend installers use non-acidic and zinc chloride free fluxes such as Fernox Flux.

ACOUSTIC

Properly installed, Speedfit Pipes are virtually silent in operation and do not resonate; they absorb the acoustic vibrations and pressure waves created by cavitations, water hammer, float operated valve oscillation and other hydraulic effects. The inherent flexibility of Speedfit Pipe effectively eliminates these troublesome problems, including those that occur when, due to thermal expansion, metal pipes rub against structural members and where long, straight runs of rigid pipe amplify water borne noise.

PROTECTION AGAINST RODENTS

When used in locations vulnerable to rodent attack, all plastic pipes and fittings should be adequately protected within sealed ducts. Speedfit Products along with other materials such as electrical cables may be damaged if rodents are present. If vermin infestation is suspected then a rodent exterminator should take appropriate action.

BIOLOGICAL

No taste, colour, odour or toxicity is imparted to water by Speedfit Components, nor do they promote microbiological growth. In accordance with BS7291 Part 1 requirements, the opacity of both pipes and fittings allows insufficient light to pass for the growth of algae. Tests within the Water Regulations Advisory Scheme, have approved Speedfit Pipe and Fittings to BS 6920 for water quality.

SYSTEM TESTING

On completion of the plumbing and heating system it is essential that system checking and a hydraulic wet test takes place. Connections to boilers, radiators and sanitary ware should first be capped or plugged. Testing should be carried out at 2 bar for 10 minutes followed by 10 bar for 10 minutes. This testing combined with other relevant checks, should reveal most system problems. Any components within the system not designed to take these pressures should be disconnected.



Before carrying out a pressure test ensure all Speedfit Pipe and fittings are installed correctly. Speedfit Barrier Pipe is printed with insertion marks to help ensure full insertion has been achieved.

Remember pressure testing is NOT a substitute for making sure fittings are clean and free of any grit, dirt or swarf and the pipe is correctly inserted (see Making a Good Connection).

SYSTEM COMMISSIONING AND FLUSHING

With existing systems, flushing prior to the use of Speedfit is essential to remove any harmful contamination or chemical residues from elsewhere in the system.

For the installation of central heating systems flushing procedures must be in line with BS7593 code of practice for treatment of water in domestic hot water heating systems. Flux residues used in the soldering of capillary fittings are very corrosive. Dirt and grit, which can enter the system when Speedfit Pipe is being pushed through underfloor or across a roof space, must be removed.

During the commissioning of a heating system, all air must be removed from the system before the boiler is allowed to fire. This will ensure pockets of air do not cause localized overheating within the system as this could have a detrimental effect on the pipework and boiler. For further advice on chemical flushing agents and inhibitor treatments, the following manufacturers should be contacted: Fernox Manufacturing Ltd., 0330 100 7750 or Sentinel BetzDearborn Ltd., 0151 424 5351.

DISINFECTION OF HOT AND COLD WATER SYSTEMS

Speedfit can be disinfected with chlorine (sodium hypochlorite) after installation. Domestic systems are disinfected with a solution of chlorine with a concentration of 50ppm (mg/l) for one hour. The concentration should not be less than 30ppm at all draw off points after this time.

Other disinfection methods and chemicals (e.g. ozone and hydrogen peroxide) are now in common use. Only those specifically recommended as suitable for contact with plastic plumbing systems and, where necessary, employing specialist contractors may be used with Speedfit.

Disinfection solutions must only come into contact with the internal (wet) surfaces of the system. If any normally dry surfaces of a Speedfit fitting come into contact with disinfection solution the whole fitting must be replaced immediately. The disinfection solution must be immediately flushed out at all draw off points with fresh, wholesome water at the end of the disinfection period.

The solution must not be left in the system.

TECHNICAL ADVISORY SERVICE

The JG Speedfit Technical Advisory Service is available to assist and advise on all aspects of using the Speedfit system. The service is available between 8.00am and 5.00pm, Monday to Friday on Telephone No. 01895 425333 and Fax No. 01895 425350. Products within this Product Guide are designed for use within UK plumbing and heating installations or in other countries where similar installation requirements apply. For information on products suitable for use in other countries please consult our Technical Advisory Service.

We take pride in the quality of our products and all complaints are investigated thoroughly. If you have a problem with a Speedfit Product please return both fitting and pipe to us for investigation. We will need at least 50mm of pipe to ensure an accurate analysis. If there is a suspicion that the pipe is faulty, please provide marking details from the pipe.

METAL FOIL TAPE

JG Speedfit aluminium Foil Tape can be used to fulfil the NHBC requirements for the identification of location of plastic pipes in or behind a wall surface by a metal detector. It features a bright aluminium finish, rubber/resin high-tack adhesive and quality siliconised backing paper to allow the easy handling of short, cut lengths.

DO NOT stick the tape to the Speedfit pipe or fittings or those of any other manufacturer.

COMMON PROBLEMS AND IDENTIFICATION

Problem : Burst or melted pipe.

Pipe will be distorted showing either a 'Parrot beak' look or a long opening with the edges of the pipe melted in a wave shape.

Identification : A 'Parrot beak' will have been formed by the pipe bursting due to the water freezing. If the Pipe has a melted appearance it will have been subject to a temperature in excess of 128°C. This will have been caused by direct contact with a heat source such as a blowtorch or flue pipe or by water or steam within the system rising above safety levels.

Problem : A fitting or part of a fitting dissolved - the fitting may have blown off the pipe and may have missing component parts.

Identification : The fitting will have failed because of a chemical attack. The most common attack is from acid based solder flux running down into the fitting during soldering of a nearby copper fitting or flux coming into contact with the fitting in some other way.

Problem : Weep from fitting.

Identification : The pipe has not been fully inserted up to the pipe stop or one or both of the 'O' rings have been damaged by burrs or sharp edges on the end of pipe. See 'What Not to Do' on page 04.

Problem : The fitting has blown off the pipe. Fitting is missing the collet, the pipe insert is still inside the fitting after the pipe has come out.

Identification : If this happens on first fix, the most likely reason is that the pipe has not been fully inserted into the fitting, up to the pipe stop, and the system has not been pressure tested.

If the collet (gripping device) is missing everything will blow out. If the collet is there and the pipe support is still inside the connector but the pipe has still blown out, this means that full insertion had not been accomplished.

UNDERFLOOR HEATING

The Speedfit Underfloor Heating System has been designed to be quick and easy to install with components designed and manufactured to ISO9001 and DIN4726.

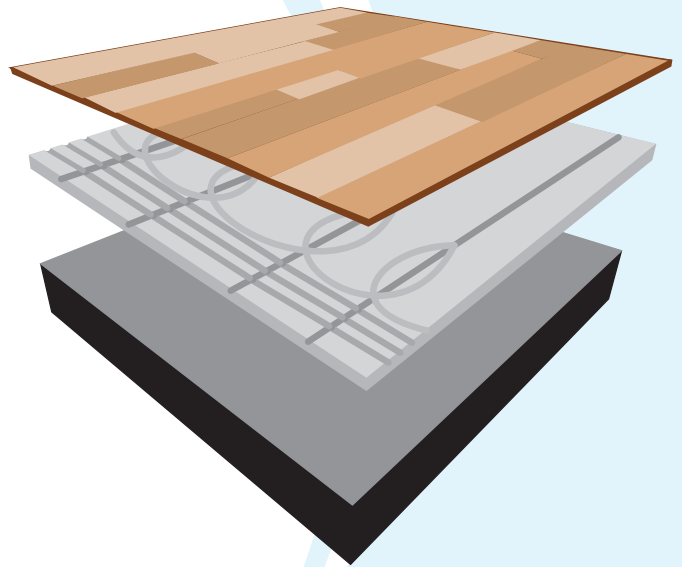
The Speedfit System has hot water pumped from a boiler to a pump pack, where it is mixed to approximately 50°C then distributed via a manifold to heating circuits made using Speedfit Barrier Pipe.

In concrete floors, the pipe is laid on insulation and then covered with a screed on which can be laid almost any type of floor covering.

For timber floor, spreader plates are laid between the joists and the floor decking or on the underside of the floor. Speedfit Pipe is pushed into the grooves on the plates.

The floor area is typically warmed to between 25°C and 28°C, providing an even distribution of heat at only slightly higher than room temperature.

A wide range of electrical components means The System can have as much or as little control as required.

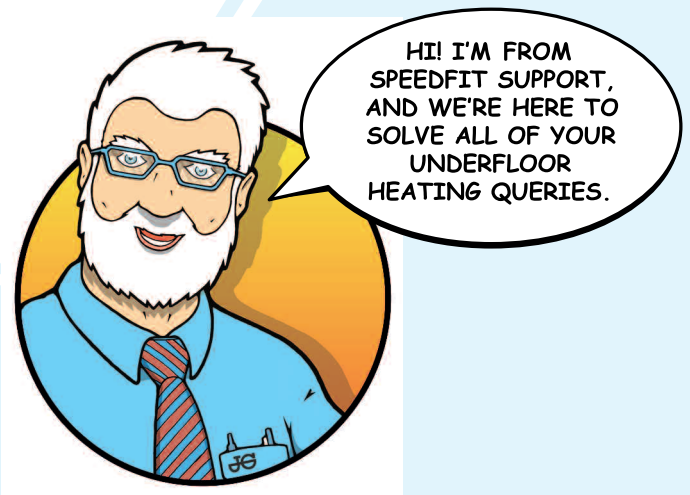


TECHNICAL CHECKLIST

The Technical Checklist for Underfloor Heating Products is on page 39.

SpEEDFIT SUPpORT

JG Speedfit Underfloor offers a range of products to ensure that a wide variety of project types and sizes can be catered for. All pipe connections are made with a Speedfit push-in connection and the new JG Layflat pipe system has made fixing plastic pipe a far easier experience.



Speedfit Support's national team of technical engineers is available to help you get the best from your Speedfit System, be it assistance or advice.

Their service includes a free underfloor heating estimate, onsite installation advice, a technical helpline and a free CAD design service.

Technical Help Desk: 01895 425333
8am to 5pm Monday through Friday



Onsite Installation Advice



Free Design Service



Online Estimator



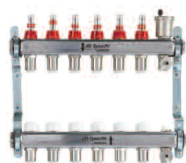
Technical Helpline



Online Info

MANIFOLDS AND PIPE FIXING SYSTEMS

MANIFOLD - STAINLESS STEEL



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|--------------|-------------|---------|----------|
| JGUFHMAN2/2 | 2 Zone | 194.54 | 1 |
| JGUFHMAN3/2 | 3 Zone | 220.69 | 1 |
| JGUFHMAN4/3 | 4 Zone | 244.75 | 1 |
| JGUFHMAN6/3 | 6 Zone | 321.84 | 1 |
| JGUFHMAN8/3 | 8 Zone | 389.89 | 1 |
| JGUFHMAN10/3 | 10 Zone | 458.82 | 1 |
| JGUFHMAN12/3 | 12 Zone | 537.80 | 1 |

The manifolds are complete with adjustable flow gauge, drain valve and air bleed valve. They are pre-assembled on wall brackets and supplied with screws and plugs. Also supplied with 'STS' Pipe Inserts and Collet Clips.

THERMOMIX CONTROL PACK - NICKEL PLATED



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|-------------|--------------|---------|----------|
| JGCONTROL/4 | CONTROL PACK | 453.43 | 1 |



ACTUATOR VALVE



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|----------------|------------------------------|---------|----------|
| JGUFHA(240V)/2 | 240 v Circuit Actuator Valve | 35.96 | 1 |

MANIFOLD EXTENSION KIT - NICKEL PLATED



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|---------------|------------------------|---------|----------|
| JGUFHMANEXT/2 | Manifold Extension Kit | 147.26 | 1 |

MANIFOLD ELBOW CONNECTOR - NICKEL PLATED



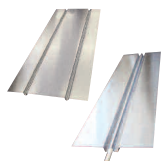
| PART No. | DESCRIPTION | PRICE PAIR £ | PACK QTY |
|---------------|--------------------------|--------------|----------|
| JGUFHMANELB/2 | Manifold Elbow Connector | 67.84 | 1 |

CONDUIT ELBOW



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|-------------|---------------|---------|----------|
| JGUFHCONELB | Conduit Elbow | 2.59 | 50 |

SPREADER PLATES



| PART No. | SIZE MM x MM | PRICE PER PACK £ | PACK QTY |
|------------|---------------------------------|------------------|----------|
| JGUFHSP400 | 390 x 1000 | 128.30 | 10 |
| JGUFHSP250 | 390 x 250 | 45.40 | 10 |
| JGUFHSP165 | FOR I BEAM JOISTS 165 x 1000 | 245.80 | 20 |

Available in Pack Multiples only.

Layflat Pipe Lays Flat - Stays Flat - Ultra Flexible

JG LAYFLAT® POLYBUTYLENE BARRIER PIPE



MORE FLEXIBLE

| PART No. | SIZE MM x M | PRICE £ | PACK QTY | BOX QTY |
|------------|-------------|---------|----------|---------|
| 15BPB-50C | 15 x 50 | 95.74 | 1 | 6 |
| 15BPB-100C | 15 x 100 | 191.51 | 1 | 4 |
| 15BPB-120C | 15 x 120 | 229.80 | 1 | 4 |
| 15BPB-150C | 15 x 150 | 287.25 | 1 | 3 |
| 15BPB-300C | 15 x 300 | 574.48 | 1 | |

SPEEDFIT PEX BARRIER PIPE



| PART No. | SIZE MM x M | PRICE £ | PACK QTY | BOX QTY |
|-------------|-------------|---------|----------|---------|
| 15BPEX-50C | 15 x 50 | 81.40 | 1 | 5 |
| 15BPEX-100C | 15 x 100 | 162.80 | 1 | 5 |
| 15BPEX-120C | 15 x 120 | 195.68 | 1 | 5 |
| 15BPEX-150C | 15 x 150 | 244.20 | 1 | 4 |

PIPE STAPLES



| PART No. | DESCRIPTION | SIZE | PRICE £ PER PACK | PACK QTY |
|---------------|--------------|------|------------------|----------|
| JGUFHSTAPLE | Pipe Staples | 60mm | 54.00 | 300 |
| JGUFHSTAPLE40 | Pipe Staples | 40mm | 54.00 | 300 |

STAPLE GUN

NEW LOWER PRICE



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|----------|-------------|---------|----------|
| JGUFHGUN | Staple Gun | 275.47 | 1 |

MOUNTING RAIL



| PART No. | DESCRIPTION | PRICE PER PACK | PACK QTY |
|-----------|---------------------|----------------|----------|
| JGUFHRAIL | 2 Metre Long | 85.28 | 16 |
| JGUFHPIN | Rail Pins For Above | 14.00 | 100 |

Available in Pack Multiples only.

FLOOR CLIPS



| PART No. | DESCRIPTION | PRICE PER PACK | PACK QTY |
|-----------|-------------|----------------|----------|
| JGUFHCLIP | Floor Clip | 32.00 | 100 |

Available in Pack Multiples only.

FIXING TOOL



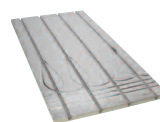
| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|-----------|--------------------------------|---------|----------|
| JGUFHTOOL | For Easy Fixing Of Floor Clips | 216.39 | 1 |

EDGE STRIP



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|-----------|---------------|---------|----------|
| JGUFHEDGE | 25 Metre Roll | 30.39 | 1 |

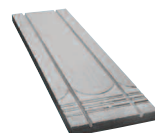
OVERFIT® BOARD



| PART No. | DESCRIPTION MM x MM | PRICE £ PACK | PACK QTY |
|-------------|-----------------------------|--------------|----------|
| JGUFHBOARD1 | Overfit Board 1250 x 600 | 283.70 | 10 |

Used to install underfloor heating pipe over an existing floor structure.

UNDERFIT® BOARD



| PART No. | DESCRIPTION MM x MM | PRICE £ PACK | PACK QTY |
|-------------|------------------------------|--------------|----------|
| JGUFHBOARD2 | Underfit Board 1200 x 350 | 259.00 | 10 |

Used to install underfloor heating pipe between existing joists.

PRE-GROOVED TRANSFER PANEL

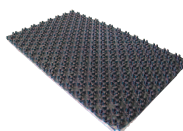
NEW



| PART No. | DESCRIPTION MM x MM | PRICE £ PACK | PACK QTY |
|-------------|--|--------------|----------|
| JGUFHBOARD3 | Pre-grooved Transfer Panel 1250 x 600 | 152.60 | 5 |

Used for the transfer of pipes from manifold to rooms intended to heat.

FLOOR PANELS



| PART No. | DESCRIPTION MM x MM | PRICE £ PACK | PACK QTY |
|-----------|--------------------------|--------------|----------|
| JGUFHTILE | Floor Tile 1400 x 800 | 200.40 | 12 |

Supplied in packs of 12, Speedfit Floor Tiles have an 11mm layer of insulation for support and additional thermal insulation.

UNDERFLOOR



Ultimate control at your fingertips

JG Aura is the new heating control concept from JG Speedfit, which allows for a more flexible and efficient remote regulation of your underfloor and central heating system as well as individual radiator control.

The JG Aura system provides you with the capability of controlling multiple zones. This enables the home owner to set heating time and temperature within each individual room resulting in considerable energy savings.

The range consists of 230v mains powered controls including a wireless range that can be controlled by your smart phone, tablet and computer via the JG Aura app.

For greater convenience, be it a new build or retrofit project, thermostats can be battery powered or if preferable wireless thermostats can be mains power supplied.

The new JG Aura controls present beautiful styling, touch sensitive control whilst incorporating high level functionality ultimately defined by the unique pioneering 4 in 1 JG Aura thermostat.

WHY JG AURA IS AHEAD OF THE REST

- Smart App control at your fingertips
- Unique '4 in 1' Thermostat
- Slimline design, touch sensitive control
- Energy saving
- 5 Year Guarantee

Energy Saving Trust (EST) is a British organisation devoted to promoting energy efficiency, energy conservation, and the sustainable use of energy, thereby reducing carbon dioxide emissions and helping to prevent man-made climate change.



Products marked with '•' have been awarded the EST marquee.



JG AURA WIRELESS RANGE

The unique JG Aura 4 in 1 wireless thermostat is designed to present wireless control of your underfloor heating system including unique wireless boiler communication when installing the JG Aura boiler receiver. The thermostat can operate as a Programmable Room Thermostat, Group Control Thermostat, Group Thermostat and a Hot Water Timer.

The JG Aura wireless thermostat is designed to work with the JG Aura app when incorporating the internet hub, presenting you ultimate control of time and temperature, underfloor heating and hot water wherever you are in the world.

The stylish slim line thermostats offer touch sensitive control at your fingertips. Uniquely, the installer is presented with two options of powering the thermostat, either with batteries or simply mains powered.

• JG AURA WIRELESS THERMOSTAT - 230V



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|-----------|------------------------------|---------|---------|
| JGSTATW2W | Wireless Stat (230v) - White | 105.03 | 1 |
| JGSTATW2B | Wireless Stat (230v) - Black | 105.03 | 1 |

• JG AURA WIRELESS THERMOSTAT - BATTERY



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|-----------|---------------------------------|---------|---------|
| JGSTATW1W | Wireless Stat (Battery) - White | 95.00 | 1 |
| JGSTATW1B | Wireless Stat (Battery) - Black | 95.00 | 1 |

JG AURA HUB



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|-------------|---------|---------|
| JGHUB2 | JG Hub 1-30 | 279.19 | 1 |

JG AURA WIRELESS COORDINATOR



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|----------------------|---------|---------|
| JGCO | Wireless Coordinator | 51.17 | 1 |

JG AURA WIRELESS BOILER RECEIVER



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|-----------------|---------|---------|
| JGBR | Boiler Receiver | 81.83 | 1 |

JG AURA WIRELESS 8 ZONE WIRING CENTRE



| PART NO. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|-------------------------------|---------|---------|
| JGWCW | Wireless 8 Zone Wiring Centre | 249.94 | 1 |

JG AURA HUB USER LICENCE



| PART NO. | DESCRIPTION | PRICE £ | PACK QTY |
|----------|---------------------|---------|----------|
| JGHUB1 | JG Hub User Licence | 184.65 | 1 |

PROBE



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|----------|-------------|---------|----------|
| JGPRB | Probe | 14.50 | 1 |

PROBE BOX



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|----------|-------------|---------|----------|
| JGGB | Probe Box | 17.91 | 1 |

NEW

JG AURA WIRELESS TRV

The JG Aura Wireless TRV simply replaces the manual standard radiator valve head and in doing so, opens up new possibilities for energy saving.

Combining the TRV with JG Aura Wireless Thermostats and JG Aura Coordinator, users can turn individual radiators on or off as well as remotely controlling your boiler at the same time. This allows for potentially significant energy savings as you only heat rooms that are in use and do not waste energy in unoccupied rooms.

The JG Aura Wireless TRV can be combined with underfloor heating systems and is very simple to install. Every installation will require a JG Aura Wireless Controlling Thermostat and a JG Aura boiler receiver.

The Wireless TRV system can be internet enabled by installing a JG Aura hub and JG Aura coordinator.

NEW

JG AURA WIRELESS TRV



| PART No. | DESCRIPTION | PRICE £ | PACK QTY |
|----------|--------------|---------|----------|
| JGTRV | Wireless TRV | 103.80 | 1 |

JG AURA APP

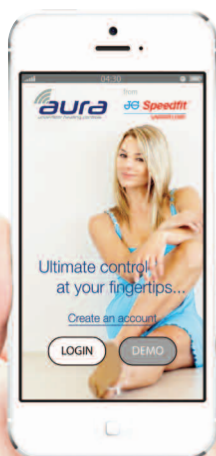
For use with JG Aura Wireless Range



The JG Aura App gives you the freedom to control your heating, no matter where you are via smart phone, tablet or desktop computer.

The easy to use interface and comprehensive nature of JG Aura, makes control of your heating system completely accessible from anywhere and at any time that suits you.

Don't worry if you have forgotten to turn off the heating when you leave for holiday as you can simply switch to Holiday Mode whilst in the departure lounge or on a sunbed.



Download the free App

The JG Aura App is compatible with iOS, Android and Windows Phones.

Disclaimer

Customers that choose to operate their heating remotely using JG Aura Range technology via their personal computer, tablet or smart phone device(s) will be entering into a contract with Salus Controls plc ("Salus"), which is a third party supplier of the software. John Guest Ltd and affiliates within the John Guest group of companies from time to time (the "John Guest Group") make no representations or warranties of any kind about the reliability or suitability of the software or applications provided by Salus. The John Guest Group disclaims liability (excluding liability for death and personal injury resulting from negligence) for any loss or damage caused by the software provided to customers by Salus. Any agreement entered into with Salus is therefore strictly at your own risk.

NEW

JG AURA 230v RANGE

At the heart of the JG Aura 230v range is once again our unique 4 in 1 JG Aura thermostat, providing combined control of UFH and radiators allowing simple installation of multi zone energy saving systems in new or retrofit projects.

To enable the Group Control functionality it is essential that a 0.5mm 2 core data cable is utilised within the wiring process. The Group Control Thermostat can control a variation of both digital thermostats and dial thermostats from one central location. The optional data cable will not be required if the thermostats are to be used as individual Programmable Room Thermostats.

The Group Control Thermostat can control up to eight thermostats plus a hot water timer.

JG AURA 230v THERMOSTAT



| PART No. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|-------------------------------|---------|---------|
| JGSTAT2W | 230v Thermostat & H/W - White | 76.16 | 1 |
| JGSTAT2B | 230v Thermostat & H/W - Black | 76.16 | 1 |

JG AURA 230v DIAL THERMOSTAT



| PART No. | DESCRIPTION | PRICE £ | BOX QTY |
|----------|----------------------|---------|---------|
| JGSTAT1 | 230v Dial Thermostat | 45.80 | 1 |

JG AURA 230v 8 ZONE WIRING CENTRE



| PART No. | DESCRIPTION | PRICE £ | QTY |
|----------|---------------------------|---------|-----|
| JGWC | 230v 8 Zone Wiring Centre | 135.00 | 1 |

TECHNICAL CHECKLIST - PLUMBING AND HEATING FITTINGS

Fittings and pipe should be kept clean and undamaged before use.

- **Sizes.** 10mm to 28mm diameter.
- **Pipes.** Speedfit fittings can be used with:
 - Copper pipe to BS EN 1057
 - Speedfit Barrier Pipe to BS7291

Speedfit fittings cannot be used on stainless steel pipe.

- **Standards.** Speedfit products are designed and manufactured under a fully integrated system assessed by B.S.I. to BS EN ISO9001. They are approved by the Water Regulations Advisory Scheme and BBA. Speedfit 'PEM', 'PSE' and 'SFM' Fittings and Speedfit Barrier Pipe are Kitemarked to BS7291 Parts 1, 2 and 3 Class S (Licence No. KM39767).
- **Applications**
 - Mains fed and indirect cold water systems
 - Vented and unvented hot water systems
 - Vented and sealed central heating systems
- **DO NOT USE FOR Gas, fuel oil or compressed air applications.**

Working Temperatures and Pressures.

| Application | Usual working temperature, °C | Maximum working temperature, °C | Maximum working pressure, bar |
|--|-------------------------------|------------------------------------|-------------------------------|
| Cold Water (indirect and direct mains) | 20 | 20 | 12 |
| Central Heating | 82 | 105, short term malfunction at 114 | 3 |
| Hot Water (including unvented cylinders) | 65 | 95 | 6 |

- **Burst Pressure (fittings).** With copper or plastic pipe at 20°C: Speedfit fittings used with copper or Speedfit Barrier Pipe will withstand pressures well in excess of normal service conditions.
- **High Temperatures.** Can withstand 114°C intermittently for short periods. The Speedfit system should not be used on an uncontrolled heat source.
- **Insulation.** Should comply with BS EN 806 and complimentary guidance document BS 8558, and BS5422, as for copper.

Minimum Bend Radii (BPEX)

| Pipe Diameter | 10mm | 15mm | 22mm | 28mm |
|-----------------------------------|-------|-------|-------|-------|
| Min radius with clips | 100mm | 175mm | 225mm | 300mm |
| Min radius with cold forming bend | 30mm | 75mm | 110mm | - |

Minimum Bend Radii (BPP)

| Pipe Diameter | 10mm | 15mm | 22mm | 28mm |
|-----------------------------------|------|-------|-------|------|
| Min radius with clips | 80mm | 120mm | 176mm | - |
| Min radius with cold forming bend | 30mm | 75mm | 110mm | - |

Clip Spacing (in mm) For Surface Mounted Pipes

| Pipe Diameter | Clip Spacing | |
|---------------|----------------|--------------|
| | Horizontal Run | Vertical Run |
| 10-15mm | 300mm | 500mm |
| 22mm | 500mm | 800mm |
| 28mm | 800mm | 1,000mm |

Where pipe is concealed, clipping may only be required where necessary.

- **Expansion (PEX pipe).** 1% on length between 20°C and 82°C.
- **Flow Rates.** Comparable with metal systems.
- **Cleaners, Inhibitors and Descalents.** For advice on the replenishment of additives such as corrosion inhibitors, the following manufacturers should be contacted: Fernox Manufacturing Limited on 0330 100 7750 or Sentinel, BetzDearborn Limited on 0151 424 5351.
- **Paint and Chemicals.** Use only water or oil based paint. **DO NOT ALLOW CONTACT WITH** jointing compounds, cellulose based paints, paint thinners or strippers, solder flux, acid based descalents or aggressive cleaning products, including those below pH4, high in hypochlorite (e.g. bleach) or containing hydrogen peroxide. (See the DISINFECTION OF HOT AND COLD WATER SYSTEMS section of the Product Guide installation advice for specifically permitted disinfection procedures).
- **Solder Flux.** No fluxes of any types should come into contact with JG Speedfit Pipe and Fittings. If fluxes are to be used in an environment where Speedfit is installed, then (1) extreme care should be taken to ensure that no such contact takes place and (2) JG recommend installers only use fluxes tested and approved in writing in advance by JG. At the date of this publication, the only such approved flux is Fernox Flux.
- **Chlorine.** Speedfit is not suitable for use in systems where the water contains high levels of chlorine. e.g. swimming pools, fountains etc.
- **Exposure to Sunlight.** Speedfit products, when used indoors, are not affected by sunlight. When used outdoors protect from ultra violet light by lagging or painting.
- **Pipe Clips.** Pipe clips should not be fitted any closer than 60mm from the end of the fitting. Pipe should be adequately supported by pipe clips to prevent undue stress (side load) on fittings.
- **Pipe Inserts.** Must be used on all installations when using plastic pipe and should be fully inserted. Only use a Speedfit Insert with Speedfit Pipe.

- **Metal Joists.** When 'cabling' plastic pipe through metal joists ensure rubber grommets are in place to prevent damage to pipe. Use of collet covers or collet clips on fittings recommended.
- **Connection to Boilers.** A minimum 1 metre run of copper pipe must be installed between the boiler and the Speedfit system, as per BS5955: Part 8.
- **Connection to Copper Pipe.** 450mm is the minimum distance to make a solder connection on copper pipe inserted into a Speedfit Fitting. Ensure that any residual flux and solder does not come into contact with the fitting.
- **Concrete and Masonry.** Speedfit pipe and fittings can be laid in concrete and masonry providing they are installed in conduit pipe with access boxes for the fittings. This is to enable the pipe to expand and to provide accessibility for both pipe and fitting. As stated in Water Regulation Schedule 2.7 and BS8000: Part 15, fittings and pipe should be removable for possible replacement. Insulation is also recommended to protect against heat loss and the effects of frost.
- **Electrical Continuity.** If Speedfit is used in an existing metal system which may have been used for earthing, electrical continuity should be reinstated.
- **Valves and Taps.** Plastic 15mm and 22mm valves and taps available from JG Speedfit Ltd are not suitable for central heating installations.
- **1/4 Turn Valves.** These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

Do Not use these Valves:

- In a partially open position to control flow.
- To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).
- As a tap or "faucet".
- **Collet Covers.** Collet covers provide added security against pipe disconnection, e.g. the fittings coming into contact with rigid surfaces and behind dry-lining walls. They are offered in white as standard and in red or blue to provide colour coding of pipe.
- **Collet Clips.** White and Grey collet clips are used with standard fittings to prevent accidental pipe disconnection. Red or blue clips provide colour coding of pipe. Red and blue clips should not be used to prevent accidental release of pipe.
- **Continuously Operated Re-Circulating Systems (Secondary Hot Water Circulation/Ring Main Installations):** A continuously operated re-circulating system is a water-replenished circulating system which is maintained at a constant high temperature to provide a constant source of hot water. Continuously operated re-circulating systems are used to distribute constant hot water to draw off points that may be distant from the source or hot water storage vessel. Continuously operated re-circulating systems are very different from conventional hot water supply and central heating systems found in domestic properties, for which our products have been tested to, under either BS7291 2010 Class S or WRAS approval standards, and for this reason Speedfit products must not be used on any continuously operated re-circulating systems as they are not approved under the current version of these standards.
- **System Testing.** To ensure the pipework and fittings have been installed correctly, whether it be on a new or extended system, it is essential that the system is checked and hydraulically wet tested. Testing should be at 2 bar for 10 minutes and 10 bar for 10 minutes. This testing, combined with other relevant checks, should reveal installation problems and is regarded as good plumbing practice. Speedfit Stop Ends and Plugs are particularly useful during this operation, enabling all outlets and any fittings to be easily plugged. However, system testing should not be regarded as a substitute for correct installation. See also "Making a Good Connection".

- **System Flushing.** As is usual practice for any plumbing installation, flushing of the system prior to the use of Speedfit is recommended to remove any contaminants/chemical residue from elsewhere in the system.

- **British Gas Service has accepted the John Guest Speedfit fittings as being suitable for open vented and sealed central heating systems and as eligible for acceptance onto its service contracts.**

- Products within this Price List are designed for use within UK plumbing and heating installations or in other countries where similar installation requirements apply. For information on products suitable for use in other countries please consult our Technical Advisory Service.

- **Vermin.** Speedfit products should not be used in vermin infested areas.

- **Maximum Torque Figures (BSP & BSPT).** Plastic threads are not generally as strong as brass threads. Customers and end users should be aware of this when choosing products for their applications. Overtightening of plastic threads will cause undue stress and eventual cracking and leakage. The maximum torque figures for BSP and BSPT threads used on Speedfit plumbing products in mating threads conforming to relevant BS or International thread standards are shown below.

| Threads | Size | Maximum Torque |
|---------|------|----------------|
| Plastic | 1/2" | 3.0 Nm |
| | 3/4" | 4.0 Nm |
| Brass | 1/2" | 4.0 Nm |
| | 3/4" | 5.0 Nm |

It is recommended that all installations are checked prior to use to determine that a seal has been made.

- **Side Loads.** John Guest products are not designed to be used whilst under side load as this may adversely affect their ability to function long-term. Always ensure tubes have good alignment with the fitting. They must also not be subjected to any form of impact or other damage, such as being hit or dropped, even accidentally. If fittings have been damaged or suffered an impact, they should be replaced immediately. John Guest warranty does not cover loss caused by any form of damage.

TECHNICAL CHECKLIST - UNDERFLOOR HEATING

- **Applications.** Underfloor Heating Installations in solid or timber floors.
- **Pipes.** 15mm JG Speedfit Barrier Pipe to BS 7291, Parts 1, 2 and 3 Class S.
- **DO NOT USE Speedfit UFH Products for Gas, Fuel Oil or Compressed Air Applications.**
- **Floor Insulation.** Should be a suitable material and thickness to comply with current regulations.
- **Minimum Bending Radii.** For Speedfit B-PEX Pipe is 175mm.
- **Expansion (PEX - Pipe).** 1% on length between 20°C and 82°C.
- **Cleaners, Inhibitors and Descalents.** For advice on the replenishment of additives such as corrosion inhibitors, the following manufacturers should be contacted Fernox Manufacturing Limited on 01799 550811 or Sentinel, BetzDearborn Limited on 0151420 9595.
- **Paint and Chemicals.** Only use water or oil based paint. DO NOT ALLOW CONTACT WITH cellulose based paints, paint thinners or strippers, solder flux or acid based descalents or aggressive household cleaning products.
- **Exposure to Sunlight.** Speedfit products, when used indoors, are not affected by sunlight. When used out doors protect from ultra violet light by lagging or painting.
- **Pipe Inserts.** Must be used on all installations when using plastic pipe and should be fully inserted.
- **Electrical Components.** Electrical products in the Speedfit Underfloor Heating System are designed only to be used in U.K. Electrical Supply situations.
- **Electrical Continuity.** If Speedfit is used in an existing metal system which may have been used for earthing, electrical continuity should be reinstated.
- **Collet Clips.** White and Grey collet clips are used with standard fittings to prevent accidental pipe disconnection. Red or blue clips provide colour coding of pipe. Red and blue clips should not be used to prevent accidental release of pipe.
- **Pre-Screed System Testing.** To ensure the pipework has been installed correctly and prior to the screed being laid, it is essential that the system is checked and hydraulically wet tested.
Testing should be carried out at 2 bar for 10 minutes and 10 bar for 10 minutes.
This testing, combined with other relevant checks, should reveal installation problems and is regarded as good plumbing practice.
- **Pressurisation During Screed Laying & Curing.** In accordance with BS1264-4, the system should be left under pressure at a minimum of 6 bar for the duration of the laying and curing of the screed.
Under NO circumstances should the UFH System be used to quicken the screed drying process.
- **System Flushing.** As is usual practice for any plumbing installation, flushing of the system prior to the use of JG Speedfit is recommended to remove any contaminants/chemical residue from elsewhere in the system.
- **Vermin.** Speedfit products should not be used in vermin infested areas.
- **Frost Protection.** During the installation process it is important that pipe containing water be protected from frost.

TECHNICAL CHECKLIST - FITTINGS FOR COLD WATER SERVICES

- **Applications.** Speedfit Fittings for Cold Water Services are designed to connect MDPE pipes (MRS-PE80) used above or below ground, to convey potable water from distribution mains to individual properties.
- **Pipes.** The Fittings can be used with:-
 - Blue MDPE pipe to BS6572.
 - Black MDPE pipe to BS6730.
 - Blue pipe to BS EN 12201-2, 20mm PN16, 25mm and 32mm PN12.5.
- **Adaptors.** Are available for:-
 - Copper to BS EN1057 and PEX or PB to BS7291.
 - Screwed pipe.
 - LDPE to BS1972 Class C and Class D in 1/2" and 3/4" sizes.
- **Fittings for PEX and Copper Pipe.** Must not be buried into ground, soil, concrete or other substrates.
- **Working Temperatures and Pressures.** Maximum working pressure 16 Bar @ 20°C.
- **Standards.** The Fittings are approved by the Water Regulations Advisory Scheme.
- **Performance.** The fittings are manufactured from tough plastic material well able to meet the stringent requirements of the water industry. They have been approved by the WRAS and, as such, have passed the 'pull out test' where a force shown below is applied to a connection between MDPE pipes and a fitting for 5 minutes without the connection failing.
- **Chemical Effects.** For below ground applications the fittings require no additional preparations - coating etc. When used above ground, avoid contact with aggressive chemical compounds. Protect from frost where necessary. In the United Kingdom, potable water does not contain high levels of chemicals (eg chlorine etc) that would adversely affect Speedfit Underground Fittings.
- **Paint and Chemicals.** Use only water or oil based paint. **DO NOT ALLOW CONTACT WITH** jointing compounds, cellulose based paints, paint thinners or strippers, solder flux, acid based descalents or aggressive cleaning products, including those below pH4, high in hypochlorite (e.g. bleach) or containing hydrogen peroxide. (See the DISINFECTION OF HOT AND COLD WATER SYSTEMS section of the Product Guide installation advice for specifically permitted disinfection procedures).
- **Exposure to Sunlight.** Permanent exposure to direct sunlight will necessitate lagging the fittings.
- **Pipe Inserts.** Pipe inserts must be used and fully inserted on all connections to MDPE, LDPE, PEX or PB pipe.
- **System Testing.** Pressure test to 1.5 times working pressure for 10 minutes before connecting to the mains supply. It is recommended that all pipe and fitting installations are pressure tested after installation before handing over to the final user
- **Maximum Torque Figures.** The maximum torque figures for BSP and BSPT threads used on Speedfit products are as follows:-

| Size | Maximum Torque |
|------|----------------|
| 1/2 | 3.0 Nm |
| 3/4 | 4.0 Nm |

| | Size | | |
|------------|------|------|------|
| Test Force | 20mm | 25mm | 32mm |
| Newtons | 1900 | 2500 | 4100 |
| lbs | 427 | 562 | 921 |

It is recommended that all installations are checked prior to use to determine that a seal has been made.

The maximum torque figures quoted for use with Speedfit fittings are dependent on the mating thread conforming to the relevant British International thread standards.

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| 15WBP | 22 | JG-STAND/UG2 | 18 | PEM0328W | 9 | PXC15 | 16 | | |
| 22EPR | 16 | JG-STAND/WFLEXI | 17 | PEM0328WP | 19 | PXC22 | 16 | | |
| 22BLKCON-25C | 15 | JG-TS | 16, 24 | PEM0410W | 9 | PXC28 | 16 | | |
| 22BLKCON-50C | 15 | JGBR | 35 | PEM0410WP | 19 | SFM512210E | 12 | | |
| 22BLUCON-50C | 15 | JGCO | 35 | PEM0415W | 9 | SFM512210EP | 22 | | |
| 22BPP-25C | 15 | JGCONTROL/4 | 34 | PEM0415WP | 21 | SFM522210E | 12 | | |
| 22BPP-50C | 15 | JGHDC | 16 | PEM0422W | 13 | SFM522210EP | 22 | | |
| 22BPEX-20X2L | 15, 24 | JGHUB1 | 35 | PEM0422WP | 23 | SFM522215E | 12 | | |
| 22BPEX-20X3L | 15, 24 | JGHUB2 | 35 | PEM0428W | 13 | SFM522215EP | 22 | | |
| 22BPEX-20X6L | 15 | JGMAN2 | 14 | PEM0428WP | 23 | SPF22 | 16 | | |
| 22BPEX-25C | 15, 24 | JGMAN3 | 14 | PEM061510W | 14 | SPUFH10 | 37 | | |
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| 22BPEX20X6L-B | 15 | JGPRB | 36 | PEM062215W | 14 | SPUFH13 | 37 | | |
| 22BPEX20X6L-R | 15 | JGRAD15 | 14 | PEM062215WP | 24 | SPUFH14 | 37 | | |
| 22BV | 14 | JGROOMPACK/2 | 37 | PEM062815W | 14 | SPUFH15 | 37 | | |
| 22BVP | 24 | JGSB | 36 | PEM062815WP | 24 | SPUFH16 | 36 | | |
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| 22CMAP | 22 | JGSTATW2W | 35 | PEM202215W | 11 | STS10 | 15 | | |
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| 22HSVP | 23 | JGSTATW2B | 35 | PEM211510W | 11 | STS15 | 15 | | |
| 22MC(3/4) | 13 | JGTAPE | 16 | PEM211510WP | 21 | STS15P | 24 | | |
| 22MC(3/4)P | 22 | JGTHRAD15 | 14 | PEM212215W | 11 | STS22 | 15 | | |
| 22PIP-50C-E | 15 | JGTRV | 36 | PEM212215WP | 21 | STS22P | 24 | | |
| 22PTSV | 14 | JGUFHA(240v)/2 | 34 | PEM221010W | 11 | STS28 | 15 | | |
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| 22RKP | 12, 22 | JGUFHCLIP | 34 | PEM221515W | 11 | TSM15NP | 24 | | |
| 22STV | 13 | JGUFHCONELB | 34 | PEM221515WP | 21 | TSM22N | 15 | | |
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| 22SV | 14 | JGUFHGUN | 34 | PEM222222WP | 21 | TSM28N | 15 | | |
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GENERAL CONDITIONS OF SALE

1. GENERAL

(a) These conditions and any special conditions agreed in writing between us and the purchaser shall apply to all by us and all orders and contracts for the manufacture or sale of goods accepted or carried out by us to the exclusion of any conditions in the purchaser's order terms or otherwise imposed by the purchaser.
(b) All orders are subject to our written acceptance and in particular no binding contracts shall be created by the acceptance by the purchaser of a quotation or offer made by us unless and until we shall have accepted the order in writing.

2. DOCUMENTS

(a) Unless otherwise stipulated in our written acceptance all descriptions, illustrations, drawings in our catalogues and literature (copies of which are available on request) or submitted independently, estimates of performance, weights and measurements or other specifications provided by us are approximate only and we reserve the right to alter or amend the same at any time.
(b) We reserve the right at any time to correct clerical or technical errors in the contract documents.
(c) The purchaser shall furnish with his order all necessary specifications and information. We take no responsibility for goods manufactured, priced or delivered not in accordance with the order or the specifications unless the purchaser's order and specifications are clear and correct in every particular.

3. ADVISORY SERVICE

The advisory service which we provide in connection with our goods is part of our sales service and we do not make any charge for advice given. Any advice and assistance is given at the purchaser's risk and we shall not be liable for any loss, damage or claims arising therefrom.

4. HEALTH AND SAFETY AT WORK ACT

The purchaser's attention is drawn to the installation, maintenance and operating instructions given in our catalogues or literature. These should be carefully followed. Further information if required is available at our Head Office.

5. PRICES

(a) Unless otherwise stipulated all prices contained in our quotations and written acceptances are ex works and do not include the cost of packing. All orders are accepted on the condition that all such prices are subject to revision by us at any time before the goods are dispatched to take account of any increase in costs.
(b) In the event of the whole order quoted for not being placed with us we reserve the right to revise our prices.
(c) We also reserve the right to revise our prices if any changes are made by the purchaser in the specifications or quantities of the goods or delivery requirements after the order has been accepted.

6. VALUE ADDED TAX

VAT if not included in our quotation shall be added and payable where and at the rate applicable.

7. MINIMUM CHARGE

Depending on the product or service provided, a minimum order charge may be applicable. Details of these charges are as shown on current price lists or quotations or are available from the Customer Services Department.

8. TERMS OF PAYMENT

(a) Unless otherwise stipulated in our written acceptance our terms of payment are 30 days from date of invoice.
(b) Overseas business is accepted subject to special terms as to payment to be agreed prior to our written acceptance of the order.
(c) Where the contract is to be or may be fulfilled in separate installments, deliveries or part payment for each such installment delivery or part shall be made under sub-clause (a) above as if the same constituted a separate contract.
(d) We shall be entitled to interest on all sums overdue at the rate of two and one half percent above our bank's base rate from time to time in force.
(e) In the event of the purchaser for any reason whatsoever failing within one calendar month of the due date for payment to effect any payment which may be due under the contract or any contract with us, or if he commits any breach of the contract, or if he becomes insolvent or commits any act of bankruptcy or calls a meeting of or enters into a competition with or for the benefit of his creditors, or being a body corporate, has a receiver appointed of its undertaking or assets or any part thereof or a winding up order is made against the purchaser or the purchaser goes into liquidation (save for the purpose or reconstruction or amalgamation), we shall thereupon be entitled, without prejudice to our other rights, forthwith to terminate the contract or any unfulfilled part thereof, or at our option to make partial deliveries.

9. CANCELLATION

No order or other contract may be cancelled or varied except by agreement in writing with us, and on such terms as we may stipulate.

10. HANDLING CHARGE

Goods supplied in accordance with the purchaser's order may later be returned to us at our discretion provided the goods are unused. The purchaser will be required to pay to us a handling charge of 15% to 30% of the then current list price of such returned goods, dependent on the condition of the goods.

11. TIME FOR DESPATCH

(a) All periods or dates quoted for despatch and delivery are approximate only.
(b) We shall be entitled, without liability on our part and without prejudice to our other rights, to terminate the contract or any unfulfilled part thereof, or at our option to suspend or make partial deliveries if the completion or the manufacture of the goods by us or by our suppliers is prevented, hindered or delayed whether directly or indirectly by reason of the purchaser failing to furnish necessary information or instructions, or of any strikes, lock-outs, fire, flood, accident or damage to goods or delay in obtaining or inability to obtain through scarcity of materials, or any other cause whatsoever beyond our or our suppliers' reasonable control, whether such cause exists at of the date of the order or not.

12. DELIVERY AND RISK IN GOODS

(a) Unless otherwise expressly agreed in writing, or as otherwise herein provided, delivery of the goods shall be deemed to be made when we have notified the purchaser that the goods are ready for despatch from our works and the risk in the goods shall thereupon pass to the purchaser. We shall not in any event be under any obligation to give to the purchaser the notice specified in Section 32 (3) of the Sale of Goods Act 1979.
(b) Notwithstanding that our prices are ex works we are prepared by special contract to procure carriage or freight and insurance on behalf of the purchaser and at his cost in which event we shall be under no liability for damage in transit loss or damage to the goods beyond the point of which we contract to deliver the same.
(c) The following provisions shall apply in relation to all deliveries of goods.
(i) we will entertain no claim for damage in transit, shortage of delivery or loss of goods, unless in the case of damage in transit or shortage of delivery a separate notice in writing is given to the carrier concerned and to us within three days of the receipt of the goods, followed by a complete claim in writing within five days of receipt of the goods and in the case of loss of goods, a separate notice in writing is given to the carrier concerned and to us and a complete claim in writing made within thirty days of the date of consignment;
(ii) where goods are accepted from the carrier concerned without being checked the delivery book of the carrier concerned must be signed 'not examined';
(iii) we shall have the right to attend at the purchaser's premises to inspect any goods in respect of which any such claim is made and the purchaser shall retain such goods until we shall have inspected such goods or until we have notified the purchaser that we do not wish to inspect such goods;
(iv) any breach of this condition shall dis-entitle the purchaser to any allowance in respect of the claim.
(d) Without prejudice to our other rights, should the purchaser fail for any reason to send us forwarding instructions within ninety days after the date of our notification that the goods are ready for despatch or to accept delivery of the goods we shall be entitled at the purchaser's risk and expense to store the goods and/or to procure or effect storage of the goods elsewhere. Goods so stored shall be paid for as if they had been dispatched and/or accepted.

13. PROPERTY IN THE GOODS

Until further payment has been received by us for all goods whatsoever supplied at any time by us to the purchaser:
(a) Property in the goods shall remain in us.
(b) Subject to sub-clauses (c) and (d) below the purchaser shall be at liberty to sell the goods in the ordinary course of business on the basis that the proceeds of sale shall be our property and that the purchaser shall account to us on demand.
(c) We may at any time revoke the purchaser's power of sale by notice to the purchaser if the purchaser is in default for longer than seven days in the payment of any sum whatsoever due to us or if we have bona fide doubts as to the solvency of the purchaser.
(d) The purchaser's power of sale shall automatically cease if the purchaser becomes insolvent or commits any act of bankruptcy or calls a meeting of or enters into composition or arrangement with or for the benefit of his creditors, or being a body corporate has a receiver appointed of its undertaking or assets or any part thereof or a winding-up order is made against the purchaser or the purchaser goes into liquidation (save for the purposes of reconstruction or amalgamation).
(e) Upon determination of the purchaser's power of sale under sub-clause (c) or (d) above the purchaser shall place the goods at our disposal and we shall be entitled to enter any premises of the purchaser for the purpose of removing such goods from the premises.

14. SPECIAL TOOLS OR DIES

Where it is necessary for us to manufacture or to purchase special tools, dies, jigs, mandrills in order to execute a contract the purchaser will be charged with a proportion of the cost of such special tools. Any such tools remain our property even when the purchaser has been charged with part of the cost.

15. TEST AND PERFORMANCE

(a) Our goods are, where practicable, submitted to our standard test before delivery. If special tests are required, these shall be made at our premises unless otherwise agreed, and will be charged extra.
(b) We accept no liability for failure to attain any performance figures quoted by us unless we shall have specifically guaranteed them with an agreed sum as liquidated damages and the purchaser has suffered loss by reason of the failure to attain the figures quoted.
(c) Any particulars of weights and measurements, power and consumption, power output or performance relating to the goods and like matters furnished by us to the purchaser in our catalogues, literature or otherwise, are approximate and are intended only to present a general idea of the goods to be supplied and unless previously agreed specifically in writing shall not form part of the contract.

16. FAULTS AND DEFECTS AND EXCLUSION OF LIABILITY

(a) We warrant that if within twelve months of delivery of the goods to the purchaser the purchaser returns immediately to our premises any of the said goods which he considers to be defective, carriage paid, properly packed and clearly marked with the purchaser's full name and address and any other information such as serial numbers which may be necessary to enable the goods to be identified, together with a complete description of the respects in which it is alleged that the goods are defective, such goods will be examined and should we be satisfied that the goods are defective, they will be repaired or new goods will be supplied in exchange and the goods so repaired or such new goods will be delivered to the purchaser free of charge at our premises provided that the foregoing warranty shall only be applicable if upon being required by us to do so the purchaser proves to our satisfaction:
(i) that the defect was due solely to defective workmanship;
(ii) that no alterations or repairs have been made to the goods except with our written consent;
(iii) that the defect was not caused by incorrect or negligent handling or storage, disregard of operating instructions, over-loading, unsuitable work, faulty erection or any other default by the purchaser, his servants or agents;
(iv) that the defect was not caused by fair wear and tear, accident, or any other matter beyond our reasonable control occurring after the date of receipt by the purchaser.
(b) All costs and expenses, including freight charges, customs duties and insurance costs incurred in returning the goods to our premises in accordance with this condition shall be for the account of the purchaser. The benefit of this warranty shall not be assignable by the purchaser.
(c) The warranty contained in sub-paragraph (a) above does not extend to any goods not manufactured by us although supplied by us nor does it extend to any second-hand or reconditioned goods. Goods not manufactured by us carry only the warranty (if any) of the makers and the purchaser is entitled to the benefit thereof only so far as we have the power to transfer it.
(d) The terms of this condition are in lieu of all conditions, warranties or other terms as to description, fitness for purpose, condition, merchantability, quality or otherwise in respect of the goods or repaired or replacement goods whether expressed in the contract or implied by common law, custom or statute and notwithstanding that such purpose or condition may be, may become or may have been known to us. Apart from our obligation to repair or replace goods in accordance with the terms of this condition, we accept no liability in respect of the goods whether for consequential loss or loss of profits or damages to third parties or otherwise, to the extent permitted by law.

17. INDEMNITY

The purchaser shall indemnify us against all actions, claims, demands, penalties and costs by third parties in tort, or for infringement, or alleged infringement, of patents, registered designs or other industrial property rights, or otherwise arising, in connection with the goods or with their delivery or unloading or with work done by us on the goods manufactured in accordance with the purchaser's specifications.

18. LIEN

In addition to any right of lien to which we may by law be entitled we shall have a general lien on all goods of the purchaser in our possession (although such goods or some of them may have been paid for) for the unpaid price of any other goods sold and delivered to the purchaser by us under the same or other contracts.

19. WAIVER

Our rights shall not be affected or restricted by any indulgence or forbearance granted to the purchaser. No waiver by us of any breach shall operate as a waiver of any later breach.

20. LAW AND JURISDICTION

The rights and obligations of the parties and all the terms and conditions thereof any disputes arising out thereof shall be construed in accordance with English Law to the jurisdiction of the courts of which the purchaser shall submit.

21. GENERAL

If any of these conditions or any part thereof:
(i) purports to exclude or restrict or limit any liability and such exclusion or restriction or limitation is prohibited or rendered void or unenforceable by any legislation to which it is subject;
(ii) is itself prohibited or rendered void or unenforceable by any legislation to which it is subject;
then the exclusion restriction or limitation on the condition or part thereof in question shall be so prohibited or rendered void or unenforceable to the extent to which it is prohibited or rendered void or unenforceable and no further and the validity or enforceability or any other part of these conditions shall not thereby be affected.

John Guest Speedfit Limited

Horton Road, West Drayton, Middlesex UB7 8JL, England.
Tel: 01895 449233 Fax: 01895 420321. speedfit.co.uk
Technical Help Desk: 01895 425333



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