

THE PUSH-FIT SOLUTION FOR PLUMBING & HEATING SYSTEMS

Speedfit Fittings are suitable for use with copper pipe.



Includes this NEW addition:



UK Trade Guide

JG John Guest[®]

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.



INDUSTRIAL

ASSOCIATI



INDERFLOOR





KM39767

British Gas Service







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.



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JG Speedfit®

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



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 (indirect and dire	20 ect mains)	20	12
Central Heat	ing 82	105, short term malfunction at 114	3
Hot Water	65	95	6
(including unvent	ed cylinders)		

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.

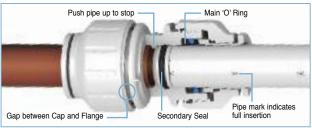


Ensure the pipe is free of score marks. Cut the pipe square. When using Speedfit Barrier Pipe cut along an insertion mark. We recommend the use of JG Pipe Cutters.

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



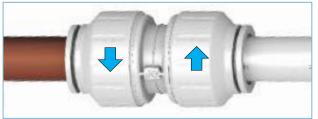
The fitting should be in the 'unlocked' position, this is shown with a small gap between the screwcap and the body flange.

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.



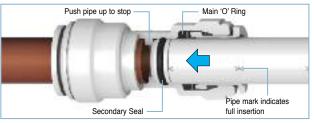
If you are not using collet clips, ensure that the screwcaps are in the locked position. Pull to check it is secure. It is good practice to test the system prior to leaving the site or before use. Our recommended test procedure is shown in our Technical Checklist.

ADDED BENEFIT OF TWIST AND LOCK



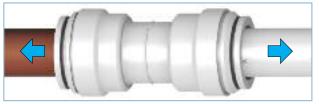
Twist the screwcap until it touches the body flange. This increases the 'O' ring seal around the pipe and locks the pipe into position.

STANDARD SPEEDFIT FITTINGS



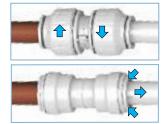
Standard Speedfit connections are made in the same way as Twist and Lock.

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

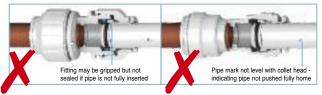
the help of our collet release tool. With the collet held in position the pipe can be removed. The fitting can be used again without the need for replacement parts.

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.

J Speedfit®

PIPE STOP DISTANCES

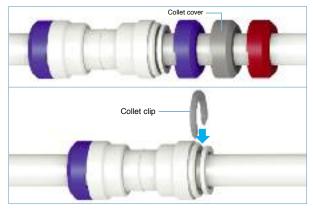
Stops are located at the following distances from the end of the fitting:



COLLET COVERS AND COLLET CLIPS

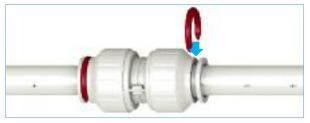
Use a collet cover or collet clip to provide added security against pipe disconnection, e.g. the fitting coming into contact with rigid surfaces and behind dry-lining walls.

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 15 and 16.

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.

06



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.

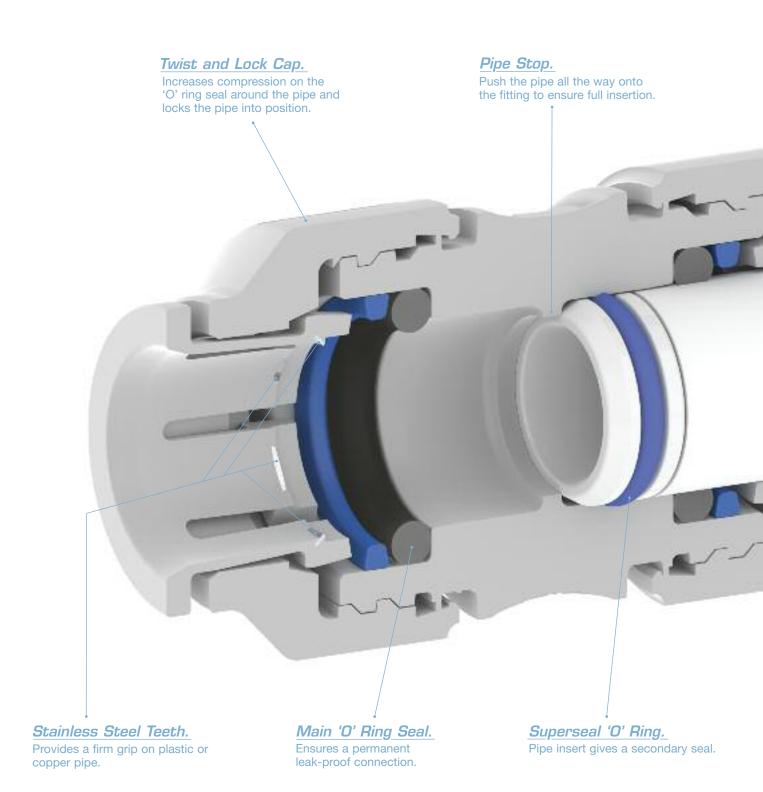
Features

- 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







WHITE PLUMBING FITTINGS



EQUAL STRAIGHT CONNECTOR

WRAS

(B	Part No.	SIZE	Bag Qty	Small Box	Large Box
ATT -	PEM0410W	10	10	150	
	PEM0415W	15	10	60	400
AL ST	PEM0422W	22	5	30	200
	PEM0428W	28	2	10	
	Suitable for centra	I heating system	IS.		

REDUCING STRAIGHT COUPLER



1	Part No.	SIZE	Bag Qty	Box Qty
	PEM201510W	15 x 10	10	80
10	PEM202215W	22 x 15	5	40
2	Suitable for central be	ating systems		

SIZE

heating systems

PART NO.

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.

	MM	QIT	QIT
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	Fittings See se	rom the range of Sp for Cold Water Ser parate section for do chnical Specification	vices. etails

BAG

Box

EQUAL ELBOW



PART NO.	SIZE	BAG	SMALL	LARGE
	MM	Qty	Box	Box
PEM0310W	10	10	150	1000
PEM0315W	15	10	50	400
PEM0322W	22	5	25	150
PEM0328W	28	2	10	

ole for central heating systems

REDUCING ELBOW

16	1
A H	100
	Shirt

PEM211510W	15 x 10	10	50
PEM212215W	22 x 15	5	40

STEM ELBOW



PART NO.	Pipe MM	Sтем ММ	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	

Provides a swivel type connection.

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

Suitable for central heating systems.

135° STEM ELBOW

	_	
2		
and the		

PART NO.	SIZE MM	Bag Qty
PEM571515W	15	10
PEM572222W	22	5

EQUAL TEE



PART NO.	SIZE	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



PART NO.	SIZE	BAG	SMALL	LARGE
	MM	Qty	Box	Box
D=1400/5D14			~~	
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 hea	ating systems.			

STEM TEI

Sizes listed as follows.

1

PEM532215W	22x22x15	5	25
PEM532210W	22x22x10	5	30
Part No.	SIZE	Bag Qty	Вох Qту

Suitable for central heating systems

2

FEMALE COUPLER - TAP CONNECTOR



Requires hand tightening only.

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

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 h	eating systems.		

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

Sizes listed as follows - 2 1-

3	LINCOLODI
3	PEM3028DW
	PEM302810AW
	PEM302815AW
	PEM3028AW
	Suitable for central hea

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 h	eating systems.		
	t and sealing washer. e Technical Checklist.		

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.

REDUCER



Part No.	SIZE	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	

table for central heating systems

TANK CONNECTOR



uires hand ening only.	PART NO.	Size MM	Bag Qty	Вох Qту
imum wall	CM0715S	15	10	60
iness	CM0722S	22	5	20
nk = 4mm.	CM0728S	28	1	10

Suitable for cold water tanks only.

PLUG



Suitable for central heating systems.

PIPE REPAIR KIT



22RKP	22	1	50
15RKP	15	1	80
PART NO.	SIZE MM	Bag Qty	Box Qty

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



22TKP	22	1	40
	00	4	40
15TKP	15	1	80
PART NO.	SIZE	Bag Qty	Box Qty

Provides a simple way to break into an existing pipe run

PLASTIC BACK PLATE ELBOW



PART NO.	Size	Bag	Bo
	MM X BSP	Qty	Qt
15PWB	15 x 1/2"	1	2

WING BACK ELBOW



SIZE MM X BSPT	Bag Qty	Box QT
15 x 1/2"	1	150

BULKHEAD ELBOW



PART NO.	SIZE MM X BSPT	Bag Qty	Вох Qту
CM551516W	15mm x 3/4"	5	25
	ntral heating systems. only, 65°C maximum.		

2 WAY DIVIDER



CM2315W	15	5	50
PART NO.	SIZE	Bag	Box
	MM	Qty	Qty

4 WAY MANIFOLD



SFM512210E	22 x 10	5	30
PART NO.	Size	Bag	Bo
	MM	Qty	Qt

4 PORT RAIL MANIFOLD



Part No.	Size MM	Box Qty
SFM522210E	22 x 10	10
SFM522215E	22 x 15	10
Buitable for central he	eating systems.	



FOR PIPE SEE PAGE 13

J Speedfit[®]

BRASS FITTINGS

WRAS

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

Manufactured in DZR Brass.

BRASS FEMALE COUPLER

MW452216N	22 x 3/4" eating systems.	5	5
MW451514N	15 x 1/2	5	5
Part No.	SIZE MM X BSP	Bag Qty	E

BRASS BACK PLATE ELBOW

Duez Me



	SIZE MM X BSP	BAG Qty	QTY QTY
15WB	15 x 1/2"	1	20
22WB	22 x 3/4"	1	10
Manufactured in Suitable for centi	DZH Brass. ral heating systems.		
SHORT VERSION			

SIZE

MM X BSPT

BAG Box

QTY QTY

5 50

10 20

100 5

Suitable for central heating systems.

BRASS MALE STEM ADAPTOR





Suitable for central heating systems Manufactured in DZR Brass

PART NO.

BRASS FEMALE STEM ADAPTOR

	-	-	_	Y
_	_		-	
		100	-	
-				

PART NO.	SIZE MM X BSP	Bag Qty	Вох Qтү
MW501514N	15 x 1/2"	5	50
MW502216N	22 x 3/4"	5	50

Converts Speedfit to female thread

Manufactured	in DZR	Brass.

BRASS FEMALE CYLINDER ADAPTOR

and an other	PART NO.	SIZE MM X BSP	Bag Qty	Вох Qтy	
	22CFA	22 x 1"	5	50	
	Suitable for centr Manufactured in I	al heating systems.			

BRASS MALE CYLINDER ADAPTOR

Suitable for cen	tral heating systems.		
22CMA	22 x 1"	5	50
APART NO.	SIZE MM X BSP	Bag Qty	Box Qty

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



22STV	22	1	5
15STV	15	1	15
PART NO.	SIZE	Bag Qty	Box Qty

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.		
	orque figures on plastic thread,		

APPLIANCE TEE *



PART NO.	SIZE	Bag	Bc
	MM X BSP	Qty	Qt
15APT2	15 x 3/4"	5	30

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 *



MM X INCH	QTY	QTY
15 x 1/4"	1	30
15 x 3/8"	1	25
r central heating systems.	1	25
ine connection with shut off	and check valve prote	
	MM X INCH 15 x 1/4" 15 x 3/8" r central heating systems. water only, 65°C maximum. ine connection with shut off	MM X INCH QTY 15 x 1/4" 1 15 x 3/8" 1

Deur

Deau

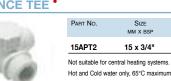
DOUBLE CHECK VALVE



PART NO.	Size MM	Bag Qty	Вох Qтy
15DCV	15	5	50
Not suitable for o	antral boating systems		

Hot and Cold water only, 65°C maximum.





PART NO.

DOUBLE CHECK SERVICE VALVE

	PART NO.	Size MM	Bag Qty	Box Qтy
	15DCSV	15	1	20
(iii)	Not suitable for c	entral heating systems.		
	Hot and Cold wat	er only, 65°C maximum.		

PLASTIC SERVICE VALVE *

3	Раят No. 15SV	Size MM 15	
	22SV	22	

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

Bag Qty

5

5

Box Qty

50

25

Box Qty

50

50

Bag Qty

5

5

PLASTIC SERVICE VALVE WITH TAP CONNECTOR *

PART NO.



15SVSTC-W 15 x 1/2" Not suitable for central heating systems. Hot and Cold water only, 65°C maximum

SIZE MM X BSP

15 x 1/2"

White

PLASTIC ANGLE SERVICE VALVE WITH TAP CONNECTOR *



5	
5	50
5	50

BRASS CHROME PLATED SERVICE VALVE WITH TAP CONNECTOR *

PAR	-			
15P		04	mu	5
22P				
0.11.1				

	22PTSV	22 x 3/4"	1	8
	15PTSV	15 x 1/2"	2	20
1	PART NO.	SIZE MM X BSP	Pack Qty	Box Qty

Suitable for central heating systems.

BRASS CHROME PLATED BALL VALVE *



PART NO. SIZE MM Раск Qту Box Qty 10BV 10 1 30 15BV 20 15 1 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.

BRASS STOP VALVE



PART NO.	Size MM X BSP	Bag Qty	Box Qty
15BSC	15	1	10
	15 r central heating systems.	1	10
Anufactured in	DZR Brass.		

BRASS DRAIN COCK



12

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.				

Box Qty

10

Раск Qту

1

THERMOSTATIC RADIATOR VALVE

PART NO.	Size MM
JGTHRAD15	15

LOCKSHIELD RADIATOR VALVE

N. Arth	PART NO.	Size MM	Раск Qту	Box Qty
	JGRAD15	15	1	20

BRASS SERVICE VALVE *

And in case of the local division of the loc	PART NO.
A L	15HSV-BRASS
	Suitable for central hea

PART NO.	SIZE	Pack Qty	Box Qty
15HSV-BRASS	15	2	20
Suitable for central heati	ng systems.		

BRASS CHROME PLATED SERVICE VALVE *

15HSV 22HSV	15	2	30 20 8
 10HSV	мм 10	Qту 1	QT) 30
PART NO.	SIZE	PACK	Box

Suitable for central heating systems.

Je Speedfit®

WHITE PIPE AND ACCESSORIES WRAS

()) Layflat Pipe

Lays Flat - Stays Flat - Ultra Flexible

JG LAYFLAT[®] POLYBUTYLENE BARRIER PIPE PART NO.

SIZE MM X N



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

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.		

Раск Qту

Box Qty



Easy to Handle



SPEEDFIT PEX B



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

PART NO.	SIZE	PACK	Box
PART NO.	SIZE MM X M	PACK QTY	QTY QTY
		Gill	
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

SIZE

мм х м

Suitable for central heating systems.

SPEEDFIT PEX BARRIER PIPE



	15BPEX-20X2L	15 x 2	
Concession in which the local division in which the local division in the local division	15BPEX-20X3L	15 x 3	
-	15BPEX-20X6L	15 x 6	
	22BPEX-20X2L	22 x 2	
	22BPEX-20X3L	22 x 3	
ns is	22BPEX-20X6L	22 x 6	
	28BPEX-10X3L	28 x 3	
*	28BPEX-10X6L	28 x 6	

Suitable for central heating systems

PIPE IN PIPE

Minimum order for 6m length

* By special order only

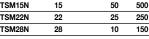
10 packs.



Part No.	SIZE MM X M	Pack Qty
15PIP-50C-E	15 x 50	1
22PIP-50C-E	22 x 50	1

PIPE INSERT

	PART NO.
	TSM10N
	TSM15N
To be used when connecting Speedfit	TSM22N
Pipe to a compression fitting.	TSM28N



SIZE

мм

10

SMALL BOX

1000

Large Box

20.000

5000

2000

1000

Раск Qту 20

> 20 20

20

Bag Qty

50

Suitable for central heating systems

SUPERSEAL PIPE INSERT

used with Speedfit Pipe and tittings, to give enhanced sealing.
pe 4 for details.

PART NO.	SIZE	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

Part No.	SIZE MM X M
15BPEX-20X6L-R	15 x 6
22BPEX-20X6L-R	22 x 6
15BPEX-20X6L-B	15 x 6
22BPEX-20X6L-B	22 x 6
	15BPEX-20X6L-R 22BPEX-20X6L-R 15BPEX-20X6L-B

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
10	Black	15BLKCON-25C	15 x 25	1
		15BLKCON-50C	15 x 50	1
1 St. St.		22BLKCON-25C	22 x 25	1
		22BLKCON-50C	22 x 50	1
0	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

GREY PIPE AND ACCESSORIES

SPEEDFIT PEX BARRIER PIPE



Part No.	Size MM X M	Раск Qту
15BPEX-20X2L-DG	15 x 2	20
15BPEX-20X3L-DG	15 x 3	20
22BPEX-20X2L-DG	22 x 2	20
22BPEX-20X3L-DG	22 x 3	20

inner barrier to stop the ingress of atmosphere.

Раск Qту

20 20

20

20 20

20

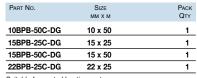
10

10

Suitable for central heating systems.

POLYBUTYLENE BARRIER PIPE





Suitable for central heating systems

PIPE INSERT

to stop the ingress of atmosphere.



PART NO.	Size	Bag Qty	Box Qty
TSM10DG	10	50	1000
TSM15DG	15	50	500
TSM22DG	22	25	250
Suitable for cent	al heating systems.		

CONDUIT ELBOW

	PART NO.	Size	Bag QTY	Раск Qту
<u>_</u>	CONELB	FITS 10, 15 & & 22mm	10	70

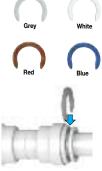
COLLET COVER

9



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	

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

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.

RELEASE AID

	5	
(e	

PART NO.	Size MM	Bag Qty	Box Qty
10RA	10	10	500
15RA	15	10	500
22RA	22	10	400
28RA	28	10	300

PIPE CLIPS AND SPACERS

R		PART NO.	SIZE	Раск Qту	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

COLD FORMING BEND



PART NO. Size MM Раск Qту Box Qty 10CFB 10 200 10 15CFB 15 10 30 22CFB 10 22 10 To help create a tighter bend than the minimum unsupported pipe.

BENDING SPRINGS

	PART NO.	Size MM	Раск Qту
(X)	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		
Λ		m supply pipes to a radiator. To be use oxes to BS 4662, fitted with rubber grou			

NAIL CLIP

PART NO.	Size	Раск Qту	Box QTY
NPC10	10	50	1000
NPC15	15	50	400
NPC22	22	50	250
NPC28	28	20	200

Раск Qту 20

Раск Qту 8

Раск Qту

30

COLLETS

		PART NO.	Size
	For PKM Fittings	PXC10	10
		PXC15	15
23.00		SPF22	22
		PXC28	28
	For PEM Fittings	PXC10	10
		PXC15	15
		PXC22	22
		PXC28	28

EPDM 'O' RING

PART NO.	Size MM	Раск Дту
10EPR	10	20
15EPR	15	20
22EPR	22	20
28EPR	28	20

THREAD WASHER

(\mathbf{D}
For use with Fer Tap Connector.	nale Coupler/
Part No.	PSE3210W PSE3201W PSE3202W PSE3203W

PART NO.	SIZE	Раск Qту
1/2EPW	1/2	20
3/4EPW	3/4	20

FOIL TAPE

	PART NO.
1	JGTAPE

50 x 45 Metallic tape to meet NHBC requirements for plastic pipe to be detected inside walls.

Size mm x m

PIPE CUTTER

PART NO.
JG-TS

For up to 22mm size pipe.

HEAVY DUTY PIPE CUTTER



JGHDC	1	20
PART NO.	Pack Qty	Box Qty

Раск Qту

1

J Speedfit[®]

BRAIDED FLEXI HOSES WRAS

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

SPEEDFIT X UNION NUT

	Ð	PART NO.	Size MM X BSP	Bag Qty	Box Qty
a later and the second	150mm	FLX43P	15 x 1/2"	2	150
Con Carbon	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
		FLX22P	22 x 3/4"	2	100
	500mm	FLX18P	15 x 1/2"	2	100
		FLX20P	15 x 3/4"	2	80
		FLX19P	22 x 3/4"	2	50
		FLX23P Full Bore	22 x 3/4"	2	40
	1000mm	FLX40P	15 x 1/2"	1	20
		FLX42	15 x 3/4"	5	25
		FLX41P	22 x 3/4"	1	20

SPEEDFIT X UNION NUT WITH SERVICE VALVE

10 States 1 - 5 - 5				-
- CE - OR	PART NO.	SIZE	BAG	Box
and the second		MM X BSP	Qty	Qty
No. and A Provide State	Plastic Valv	res		
300mm	FLX37P	15 x 1/2"	2	100
	FLX39P	22 x 3/4"	2	50
20130	Plastic Valv	e with Handle		
300mm	FLX37-H	15 x 1/2"	2	100
Carl Carl	FLX39-H	22 x 3/4"	2	50

SPEEDFIT X SPEEDFIT WITH SERVICE VALVE *

S.	•	PART NO.	Size MM X MM	Bac	
Sand Street Street	300mm	Brass Valve FLX44P	15 x 15	2	80
C. C.	500mm	FLX45P	15 x 15	2	60

FOR MONOBLOC MIXERS

	PART NO.	SIZE MM X MALE	Pack Qty	Box Qty
and the second	300mm FLX48	12 x M10	2	100
U desta	FLX28	15 x M10	2	100
0	FLX29	15 x M12	2	100

SPEEDFIT X SPEEDFIT

SPEEDFIT X MALE

and a

and	PART NO.	SIZE MM X MM	Bag Qty	Box Qty
300	^{nm} FLX33P	15 x 10	2	150
	FLX17P	15 x 15	2	100
	FLX26P	22 x 22	2	60
500	The FLX21P	15 x 15	2	100
	FLX27P	22 x 22	2	60
1000	^{nm} FLX47	15 x 15	5	25

PART NO.

300mm FLX49

SIZE MM X BSF

15 x 3/8"

BAG BOX QTY QTY

25 100

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 *

50	PART NO.	SIZE MM X BSP	Bag Qty	Вох Qтy
	Brass Val			
South	ⁿ FLX24P	15 x 1/2"	2	80
	FLX25P	22 x 3/4"	2	30
500mr	ⁿ FLX31P	15 x 1/2"	2	50
	FLX38P	15 x 3/4"	2	50
	FLX32P	22 x 3/4"	2	30

300mm	FLX36P	15 x 1/2"	2	100
- A	PART NO.	Size MM X BSP	Bag Qty	Box Qty
ELBOW PATTERN				

SPEEDFIT X PLAIN STEM

The set	PART NO.	Pipe MM	Sтем ММ	Bag Qty	Box Qty
300mm	FLX53	15	15	25	100

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	BAG	Box
1		MM X BSP	Qty	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

SIZE MM X MM

15 x 10

Bag Qty Box Qty

> 2 100 100

2

2 100

Bag Qty Вох Qтy

2 200

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

and the second se	PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
300mm	PFLX15	15 x 1/2"	2	100
and the	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	Bag	Box
	MM X BSP	Qty	Qty
PFLX88	15 x 1/2"	1	100

ELB

2	ay	PART NO.	SIZE MM X BSP	Bag Qty
	300mm	WFLX36	15 x 1/2"	2

PIPE Stem MM

15 15

SPEEDFIT X UNION NUT WITH SERVICE VALVE *

-	_	PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
	n.	Plastic Valv	es		
- 10	300mm	PFLX37	15 x 1/2"	2	100
-	500mm	PFLX78	15 x 1/2"	2	80
The second	1	Plastic Valv	e with Handle		
	300mm	PFLX37-H	15 x 1/2"	2	100

SPEEDFIT X UNION NUT WITH SERVICE VALVE *

	-	PART NO.	SIZE MM X BSP	Bag Qty	Вох Qту
-	1	Plastic Valve	with Handle		
0	300mm	WFLX37-H	15 x 1/2"	2	100
		WFLX39-H	22 x 3/4"	2	50
		_			

FOR MONOBLOC MIXERS

		WFLX29	15 x M12	0	100
3	300mm	WFLX28	15 x M10	2	100
	ø	PART NO.	SIZE MM X MALE	Раск Qту	Box Qty

IDENTITY DISCS

0 10	
/ 10	10
J 10	10
J	J 10



FOR DISPLAY STAND **SUPPORT SEE PAGE 17**

QTY QTY 100



SPEEDFIT X SPEEDFIT

WFLX17 15 x 15 500mm WFLX21 15 x 15

PART NO.

PART NO.

m WFLX51

300mm WFLX33

SPEEDFIT X PLAIN STEM

BOW PATTERN					C.
-	Duez No.	Current	Die	Devi	

Je Speedfit®

MERCHANDISING

WHITE FITTING DISPLAY STAND



PART NO.



JG-STAND/C 6' x 3' 1							
Each stand will include :- 25 Trade Price Guides Plus the following fittings							
PRODUCT	SIZE MM	QTY					
Straight	15	120					

SIZE

QTY

onaight	15	120
Straight	22	60
Elbow	15	100
Elbow	22	50
Тее	15	80
Тее	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	p 15 x 3/4	20
Pipe Insert	15	500
Pipe Insert	22	250

WHITE FLEXI HOSE DISPLAY STAND



100		PART NO.	Size	Qty
1000		JG-STAND/WF	LEXI 6' x 3'	1
10.000		The stand will inclue	de:	
TITT		Size		Qty
1 Store Sta	300mm	15mm x 1/2"		26
		15mm x 3/4"		26
		22mm x 3/4"		26
		15mm x 1/2"	Service Valve with handle	26
		22mm x 3/4"	Service Valve with handle	10
		15mm x 1/2"	Elbow Pattern	26
11		15mm x 15mm		26
100650		15mm x M10	Pack	6
		15mm x M12	Pack	6
	500mm	15mm x 1/2"		20
		22mm x 3/4"		10
		15mm x 3/4"		20

BRAIDED FLEXI HOSE DISPLAY STAND





	PART NO.	SIZE	Qty
	JG-STAND/FLEX	l 6' x 3'	1
1	The stand will		
	Size		Qty
m _	15mm x 1/2"		26
	15mm x 3/4"		26
	22mm x 3/4"		26
	15mm x 15mm		26
	15mm x 1/2"	With Service Valve	20
	15mm x M10	Packs	6
	15mm x M12	Packs	6
m -	15mm x 1/2"		20
	15mm x 3/4"		20
	22mm x 3/4"		10
	15mm x 15mm		20
	22mm x 22mm		10
	15mm x 1/2"	With Service Valve	10

PRE PACKED FITTING DISPLAY STAND





PART NO. SIZE	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
Тее	15	10
Тее	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.

BUILDERS MERCHANT STAND



seedilt



PART NO.	SIZE	PACK				
		Q				
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		Раск Qту
JG-S	Stand/UG2	6' x 2'		1
Each	stand will Header Boa Trade Prio	ar d		
PROD	UCT		SIZE	Qty
Equa	I Straight Cor	nector	20	6
Equa	I Straight Cor	nector	25	6
Redu	icing Straight	Connecto	or 25 x 20	6
PE-C	opper Couple	r	20 x 15	6
PE-C	opper Couple	r	25 x 15	6
PE-C	opper Couple	r	25 x 22	6
PE-C	opper Couple	r	32 x 28	6
Equa	I Elbow		20	6
Equa	I Elbow		25	6
Equa	l Tee		20	6
Equa	l 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	Тар		25 x 15	4
Stop	Тар		25 x 22	4
Stop	Тар		25 x 25	4
Pipe	Insert		20	60
Pipe	Insert		25	60
Impe	rial Converter		20 x 1/2"	6
Impe	rial Converter	•	25 x 3/4"	6



PRE-PACKED PRODUCTS

Products packed in a bag with instructions





FOR MERCHANDISING SUPPORT SEE PAGE 18

STEM ELBOW

ovides a swivel	

Part No.	PIPE	Stem	Bag Qty	Box Qty
PEM221010WP	10	10	1	400
PEM221015WP	10	15	1	300
PEM221515WP	15	15	1	250
PEM222222WP	22	22	1	200

Provides a swiv type connectior

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

	Contraction of the local division of the loc	
£		
	100	_

PART NO.	Size MM	Bag Qty	Box QT
PEM571515WP	15	1	250
PEM572222WP	22	1	150

EQUAL TEE

Box Qty

400

250

150

75

Box

Box Qty

250

150

BAG QTY

1

Bag

PART NO.	Size Each	Bag Qty	MM Qty
PEM0210WP	10	1	300
PEM0215WP	15	1	200
PEM0222WP	22	1	100
PEM0228WP	28	1	50

Size MM

15x10x10

28x22x28

Bag Qty

1

1

1

1 1

1

1

1

1

1

1

Box Qty

250 200

100

100

100

150

100

75

50 50

50

Suitable for central heating systems.

PART NO.

PEM3015BWP

REDUCING TEE



Sizes listed as follows

- 2

PEM3015AWP	15x15x10
PEM3022CWP	15x15x22
PEM3022BWP	22x15x15
PEM3022DWP	22x15x22
PEM302210AWP	22x22x10
PEM3022AWP	22x22x15
PEM3028BWP	28x22x22
PEM302815AWP	28x28x15
PEM3028AWP	28x28x22

Suitable for central heating systems.

PEM3028DWP

STOP END

PART NO.	SIZE	Bag Qty	Box Qty
PSE4610WP	10	1	500
PSE4615WP	15	2	600
PSE4622WP	22	2	400
PSE4628WP	28	1	200
Suitable for central he	ating systems		

ing sys

PART NO.	Size MM	Bag Qty	Вох Qту
PEM532210WP	22x22x10	1	150
PEM532215WP	22x22x15	1	150
-			

Suitable for central heating systems.



3

STFM	TEE	



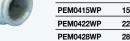
Sizes list 1

107			
- Ur	10	PEM0410WP	10
		PEM0415WP	15

1 PEM0422WP 22 1 PEM0428WP 28 1 Suitable for central heating systems.

SIZE MM

EQUAL STRAIGHT CONNECTOR



PART NO.

REDUCING STRAIGHT COUPLER PART NO. SIZE

EQUAL ELBOW



PART NO.	SIZE MM	Bag Qty	Box QTN
PEM0310WP	10	1	400
PEM0315WP	15	1	250
PEM0322WP	22	1	150
PEM0328WP	28	1	75

Suitable for central heating systems.

REDUCING ELBOW



PEM212215WP	22 x 15	1
PEM211510WP	15 x 10	1
PART NO.	SIZE	BAG QTY

FEMALE COUPLER - TAP CONNECTOR



PART NO.	SIZE MM X BSP	Bag Qty	Вох Qту
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

Requires hand tightening only.

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
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

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
PEMBTC1014P	10 x 1/2"	1	300
PEMBTC1514P	15 x 1/2"	1	200
Suitable for central bea	ting evetome		

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

TANK CONNECTOR

-	
	18
-	

Size MM Box Qty PART NO. Bag Qty CM0715SP 15 200 1 CM0722SP 22 100 1 Suitable for cold water tanks only.

Requires hand tightening only.

Maximum wall thickness of tank = 4mm.

4 WAY MANIFOLD



4 PORT RAIL MANIFOLD



PART NO.	SIZE	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	Bag Qty	Вох Qту
15MC(1/2)P	15mm x 1/2"	1	50
22MC(3/4)P	22mm x 3/4"	1	50

Manufactured in DZR Brass.

BRASS BACK PLATE ELBOW



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15WBP	15 x 1/2"	1	25
Suitable for cer	ntral heating systems.		
Manufactured i	n DZB Brass		

BRASS MALE CYLINDER ADAPTOR



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
22CMAP	22 x 1"	1	40
Suitable for cent	ral heating systems.		
Manufactured in	DZR Brass.		

BRASS FEMALE CYLINDER ADAPTOR

A. 60		_	
	18.		2
			-

PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
22CFAP	22 x 1"	1	30
Suitable for cen	tral heating systems.		
Manufactured ir	DZR Brass.		

PIPE REPAIR KIT



PART NO.	Size MM	Bag Qty	Box Qty
15RKP	15	1	80
22RKP	22	1	50
Suitable for cent	al hoating 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

	1000
50	
Alimate	27

PART NO.	SIZE	Bag Qty	Box Qty
15TKP	15	1	80
22TKP	22	1	40
Suitable for centr	al heating systems		

Bag Qty

1

1

1

Box Qty

400

250

200

150

Provides a simple way to break into an existing pipe run

REDUCER

0	PART NO.	SIZE
	PEM061510WP	15 x 10
	PEM062215WP	22 x 15
	PEM062815WP	28 x 15
	PEM062822WP	28 x 22

Suitable for central heating systems.



PRE-PACKED PRODUCTS CONTINUED

Products packed in a bag with instructions





FOR MERCHANDISING SUPPORT SEE PAGE 18

STOP VALVE

		-
1		-
-		ł

PART NO.	Size	Bag Qty	Box Qty
15STVP	15	1	100
22STVP	22	1	50

Hot and Cold water only, 65°C maximum.

BRASS STOP VALVE



PART NO.	SIZE MM	Bag Qty	Box
15BSCP	15	- 1	10

WASHING MACHINE TAP



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15APTP	15 x 3/4"	1	200
	central heating systems. tter only, 65°C maximum.		
For maximum to please see Tech	rque figures on plastic thread, nical Checklist.		

APPLIANCE TEE •



EMERGENCY SHUT OFF TAP



	PART NO.	SIZE MM	Bag Qty	Box Qty
	15ESOTP	15	1	200
a	Not suitable for ce	ntral heating systems.		
	Hot and Cold wate	r only, 65°C maximum.		

BRASS CHROME PLATED SERVICE VALVE *

	PART NO.	Size	Bag Qty	Box Qty
	10HSVP	10	1	50
	15HSVP	15	1	50
	22HSVP	22	1	20

Suitable for central heating systems.

PRE PACKED VALVES

PLASTIC SERVICE VALVE •

	PART NO.	Size MM	Bag Qty	Box QTY
3	15SVP	15	1	200
	22SVP	22	1	150
	Not suitable for c	entral heating system	s.	

Hot and Cold water only, 65°C maximum.

PLASTIC SERVICE VALVE WITH TAP CONNECTOR *

1	-		PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
1	* I-	Grey	15SVSTCP	15 x 1/2"	1	200
		White	15SVSTC-WP	15 x 1/2"	1	200
1	*		Not suitable for centra Hot and Cold water o	0,		

PLASTIC ANGLE SERVICE VALVE

WITH TAP CON	NEC	TOR •			
		PART NO.	SIZE MM X BSP	Bag Qty	Вох Qтy
A Completion	Grey	15SVBTCP	15 x 1/2"	1	200
	White	15SVBTC-WP	15 x 1/2"	1	200
		Not suitable for centra	0,		
		Hot and Cold water or	ıly, 65°C maximum.		
lesson .					

BRASS CHROME PLATED SERVICE VALVE WITH TAP CONNECTOR •

BRASS CHROME PLATED BALL VALVE *

PART NO.

15BVP

22BVP

ALL	15PTSVP 22PTSVP	15 x 1/2" 22 x 3/4"	1	50 20
- Hereit	PART NO.	SIZE MM X BSP	Bag Qty	Box Qty

SIZE

MM

15

22

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

Suitable for central heating systems.

PRE-PACKED PIPE & PIPE ACCESSORIES

SPEEDFIT PEX BARRIER PIPE



	PART NO.	SIZE MM X M	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
er ed	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

	-
-	
	-

Box Qty

40

20

Bag Qty

1

1

	PART NO.	SIZE MM X M	Pack Qty
	15BPEX-20X2L	15 x 2	20
١.	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.

BRASS DRAIN COCK

and an other state	PART NO.	SIZE	Bag Qty	Box Qty
	15BDCP	15	1	50
	Suitable for cent Manufactured in	ral heating systems. DZR Brass.		
•			where collet covers are fitted. ng fitted with a collet clip.	

PIPE INSERT

	PART NO.	Size MM	Bag Qty	Box Qty
	TSM10NP	10	10	5000
	TSM15NP	15	10	3000
	TSM22NP	22	5	1000
ing ing	TSM28NP	28	5	500
•				

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

Suitable for central heating systems.

DOUBLE CHECK VALVE

t.	11	diama and	-	3
1	and the	7	-	

	MM	QTY	QTY
15DCVP	15	1	200
Not suitable for c	entral heating systems.		
Hot and Cold wat	er only, 65°C maximum.		

SUPERSEAL PIPE INSERT

100		
- 10		
1.		

To be used with Speedfit Pipe and Speedfit fittings, to give

PART NO.	SIZE	Bag Qty	Box Qty
STS10P	10	10	5000
STS15P	15	10	3000
STS22P	22	5	1000

Suitable for central heating systems.

See page 4 for details.

enhanced sealing.

NAIL CLIP

NPC15P 15 20	PART NO.	Size	Bag Qty
	NPC10P	10	20
NPC22P 22 10	NPC15P	15	20
	NPC22P	22	10

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 '•'

PIPE CUTTER



PART NO.	Раск Qту	Box Qty
JG-TS	1	30

For up to 22mm size pipe.

Вох Qту 5000 2000

Suitable for central heating systems

JC Speedfit Grey

GREY PLUMBING FITTINGS

Kitemarked to BS 7291 and with WRAS Approval.



EQUAL STRAIGHT CONNECTOR

TPI	PART NO.
11-00	PEM0410DG
	PEM0415DG
and the	PEM0422DG

PART NO.	SIZE MM	Bag Qty	Box Qty
PEM0410DG	10	10	150
PEM0415DG	15	10	60
PEM0422DG	22	5	30
Suitable for central	heating systems		

ntral heating syster

REDUCER



PEM062215DG	22 x 15	10	70
PEM061510DG	15 x 10	10	150
Part No.	SIZE	Bag Qty	Box Qty

EQUAL TEE



Part No.	Size MM	Bag Qty	Вох Qту
PEM0210DG	10	10	100
PEM0215DG	15	5	40
PEM0222DG	22	5	15

REDUCING TEE



PART NO.	Size MM	Bag Qty	Box Qty
PEM3022BDG	22 x 15 x 15	5	25
PEM3022DDG	22 x 15 x 22	5	15
PEM302210ADG	22 x 22 x 10	5	20
PEM3022ADG	22 x 22 x 15	5	15
Suitable for central h	neating systems.		

REDUCING STRAIGHT COUPLER

1		
14	1	Ca.
		W

EQUAL ELBOW

PEM202215DG	22 x 15	5	40
PEM201510DG	15 x 10	10	80
PART NO.	MM	QTY	QTY

Suitable for central heating systems.

SIZE

мм

10

15

22

Suitable for central heating systems.

Sizes are listed in the following order.



FEMALE COUPLER - TAP CONNECTOR



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
PSE3201DG	15mm x 1/2"	10	100
PSE3203DG	15mm x 3/4"	5	70
PSE3202DG	22mm x 3/4"	5	50

Requires hand tightening only.

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

STOP END

Вох Qту

150 50

25

Bag Qty

10

10

5

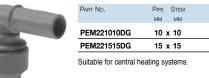
Bag



PART NO.	Size MM	Bag Qty	Box Qty
PSE4610DG	10	10	300
PSE4615DG	15	10	200
PSE4622DG	22	5	80
PSE4628DG	28	5	50
Suitable for centr	al heating systems		

le for central heating systems

STEM ELBOW



PART NO.

PEM0310DG

PEM0315DG

PEM0322DG

Box QTY QTY 10 200 10 80

STRAIGHT TAP CONNECTOR



With brass swivel nut

and sealing washer.

PART NO.	SIZE MM X BSP	Bag Qty	Вох Qту
PEMSTC1514-DG	15mm x 1/2"	5	50
PEMSTC1516-DG	15mm x 3/4"	5	50
PEMSTC2216-DG	22mm x 3/4"	5	40

Suitable for central heating systems. For torque figures see Technical Checklist.

Provides a swivel type connection.

APPLIANCE TAP •



PART NO.	SIZE MM X BSP	Bag Qty	Вох Qту
15APT-DG	15mm x 3/4"	5	40
Not suitable for	central heating systems.		
Hot and Cold w	vater only, 65°C maximum.		
	res on plastic threads hnical Checklist.		

BENT TAP CONNECTOR

With brass swivel nut and sealing washer.

EMERGENCY SHUT OFF TAP •

	SIZE	Bag	Bo
	MM X BSP	Qty	Qt
PEMBTC1514-DG	15mm x 1/2"	5	50

SIZE MM

15

Bag Qty

5

Box Qty

40

OTHER PLUMBING FITTINGS

CONVERSION CONNECTOR

	PART NO.	
	NC471	1/2
	NC2324	3/4
neate imporial to matric pipe	Suitable for e	ontral h

PART NO. SIZE BAG BOX QTY QTY	NC471 NC2324	1/2id x 15mm 3/4id x 22mm	5	500 30
	PART NO.	Size	Bag Qty	Box Qty

Connects imperial to metric pipe.

Suitable for central heating systems.

SLIP CONNECTOR



CM-SC-15S	15	10	60
Part No.	SIZE	Bag Qty	Box Qty

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

HOSE CONNECTOR



Part No.	Size	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.

PART NO.

15ESOT-DG

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 '•'

UNEQUAL STRAIGHT CONNECTOR

6	A.		100
			111
And in case of the local division of the loc			100
12			
Contraction of the local division of the loc		1	

NC2511	15mm x 3/8"	10	15
	WIN A INCIT	Gill	Q.
PART NO.	SIZE MM X INCH	BAG QTY	BO QT

Hot and cold water only, 65°C maximum.



FOR PIPE SEE PAGE 13

JG 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.
- 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.

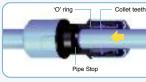
The Technical Checklist for Cold Water Services Fittings is on page 39.

MAKING A GOOD CONNECTION



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





Push the pipe into the fitting, up to the pipe stop.

Always use a Speedfit Pipe Insert, which must be fully

inserted.

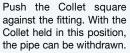
fitting, up to the pipe stop. The Stainless Steel teeth grip the pipe, the "O" ring provides a permanent leakproof seal.



TO DISCONNECT



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







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

FOR DISPLAY STAND SUPPORT SEE PAGE 18.

EQUAL STRAIGHT CONNECTOR

PART NO.	SIZE MM	Bag Qty	Box Qty
UG401B	20	1	100
UG402B	25	1	60
UG403B	32	1	40
Cold water or	nly		

REDUCING STRAIGHT CONNECTOR

PART NO.	Size MM	Bag Qty
UG501B	25 x 20	1
UG502B	32 x 25	1
Cold water o	nlv	

PE-COPPER COUPLER

	PART NO.	SIZE	Bag Qty	Box Qty
RH	UG601B	20 x 15	1	150
100	UG603B	25 x 15	1	100
	UG602B	25 x 22	1	80
	UG604B	32 x 28	1	60
	Cold water or	ıly		

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	Qty Bag	Bo Q
UG101B	20 x 1/2" BSP	1	15
UG102B	25 x 3/4" BSP	1	10
UG103B	32 x 1" BSPT	1	6
UG104B	32 x 1.1/2" BSPT	1	8

FEMALE ADAPTOR

	1000
1.1	

SIZE MM X BSP	Bag Qty	Вох Qтy
20 x 1/2"	1	100
25 x 3/4"	1	100
	MM X BSP 20 x 1/2"	MM X BSP QTY 20 x 1/2" 1

EQUAL ELBOW



SIZE	Bag Qty	Box Qty
20	1	100
25	1	50
32	1	30
	MM 20 25	MM QTY 20 1 25 1

BACK PLATE ELBOW



PART NO.	SIZE MM X BSP	Bag Qty	Bo> Qm
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



Cold water only			
UGPWB1514	15 x 1/2"	1	150
Part No.	SIZE MM X BSPT	Bag Qty	Вох Qту

STEM ELBOW



PART NO.	PIPE OD MM	STEM OD MM	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

10	-	-	

PART NO.	SIZE MM	Bag Qty	Вох Qту
UG201B	20	1	50
UG202B	25	1	40
UG203B	32	1	15
Cold water on	ly		

REDUCING TEE



UG232AB	32	25	1	1
Part No.	SIZE	Size	Bag	Bc
	ENDS	Branch	Qty	Qt

REDUCER

Box Qty 80 50





SIZE MM

20

25

Box Qty

150

100

Box Qty 50

40

30

Bag Qty

1

1

STOP END



UG4625B Cold water only

PART NO.

UG4620B

STOP TAP - MDPE x MDPE



PART NO.	SIZE	Bag Qty	Bo QT
UGSTV2020	20	1	40
UGSTV2525	25	1	30
UGSTV3232	32	1	15

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	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

UG803E	32		1
UG802E	25		1
UG801E	20		1
PART NO.	SIZE MM	PRICE £	Bag Box

Cold water only

PIPE INSERT

P	PART NO.	SIZE MM	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	Bag Qty	Bo Qt
UGICO1	20	1/2"	1	10
UGICO2	25	3/4"	1	80

Supplied with inch size Pipe Insert 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.



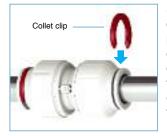
CONNECTION TO IMPERIAL PIPE AND FITTINGS

The Speedfit Range includes couplers to connect Speedfit Pipe to 1/2" to 1" BSP and BSPT. See page 11.



Fittings to connect imperial pipe to metric are shown on page 24.

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 waterreplenished 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 recirculating 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 plaserboard 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.

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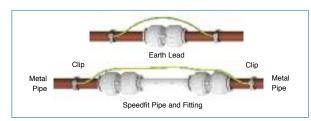


ELECTRICAL CONTINUITY

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 exraneous-conductive-part is not required to be connected to the local supplementary conductors.



SUPPLEMENTARY BONDING TO BATHROOMS

Pipe Materia Cold Water	al Hot Water	Central Heating	Supplementary Bond Required Between	Comments
Ρ	Ρ	Ρ	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.
Ρ	М	м	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.
Ρ	Ρ	М	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.
м	М	М	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.
м	М	Ρ	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.

2. Metal window frames are not required to be supplementary bonded unless they are electrically connected to the metallic structure of the bonding.

3. 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.

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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 complimentarty 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 14.

Internal Bending Springs are available in 10mm to 22mm sizes. See page 14.

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 are as follows:

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

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 Sp	pacing
	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:

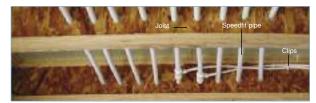
- 1. Holes should be no greater than 0.25 of the depth of the joist.
- 2. Holes should be drilled at the neutral axis.
- 3. Holes should not be less than 3 diameters (centre to centre) apart.
- 4. Holes should be located between 0.25 and 0.4 times the span from the support.



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.



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CROSS WEB JOISTS

Unlike I beam joists, pipe can be cabled anywhere within the



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 affect 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 that 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.

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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

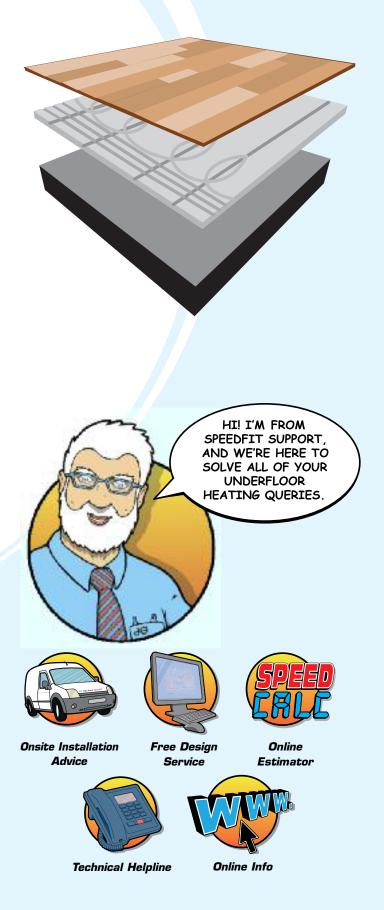
JG Speedfit Underfloor offers a range of products to ensure that a wide variety of project types and sizes can be catered for. All pipe connections are made with a Speedfit push-in connection and the new JG Layflat pipe system has made fixing plastic pipe a far easier experience.



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



MANIFOLDS AND PIPE FIXING SYSTEMS

MANIFOLD - STAINLESS STEEL

M

NEW

NEW

V	LILLALD,	Part No.	DESCRIPTION	Раск Дту
	TO DULLING THE	JGUFHMAN2/2	2 Zone	1
		JGUFHMAN3/2	3 Zone	1
	1 1	JGUFHMAN4/3	4 Zone	1
	ALL DOLLARS AND A	JGUFHMAN6/3	6 Zone	1
	ALARAPOSK	JGUFHMAN8/3	8 Zone	1
		JGUFHMAN10/3	10 Zone	1
		JGUFHMAN12/3	12 Zone	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



ACTUATOR VALVE

0	PART NO.	DESCRIPTION	Раск Qту
-	JGUFHA(240V)/2	240 v Circuit Actuator Valve	1

MANIFOLD EXTENSION KIT - NICKEL PLATED

	Part No.	DESCRIPTION	Раск Qту
	JGUFHMANEXT/2	Manifold Extension Kit	1
11			

MANIFOLD ELBOW CONNECTOR - NICKEL PLATED

Part No.	DESCRIPTION	Раск Qту
JGUFHMANELB/2	Manifold Elbow Connector	1

CONDUIT ELBOW

JGUFHCONELB	Conduit Elbow	50
PART NO.	DESCRIPTION	Pack Qty

SPREADER PLATES



PART NO.	SIZE MM x MM	Pack Qty
JGUFHSP400	390 x 1000	10
JGUFHSP250	390 x 250	10
JGUFHSP165	FOR I BEAM JOISTS	20
	165 x 1000	
Available in Pack Mul	tiples only.	

() Layflat Pipe Lays Flat - Stays Flat - Ultra Flexible

JG LAYFLAT[®] POLYBUTYLENE BARRIER PIPE



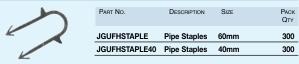
	Part No.	Size MM × M	Раск Qту	Вох Qтy
	15BPB-50C	15 x 50	1	6
/	15BPB-100C	15 x 100	1	4
	15BPB-120C	15 x 120	1	4
	15BPB-150C	15 x 150	1	3
	15BPB-300C	15 x 300	1	

SPEEDFIT PEX BARRIER PIPE



Part No.	SIZE MM x M	Pack Qty	Box Qty
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

PIPE STAPLES



PART NO.

 PART NO.	DESCRIPTION	Pack Qty
JGUFHGUN	Staple Gun	1

MOUNTING RAIL

Раск Qту

1



JGUFHRAIL	2 Metre Long	
JGUFHPIN	Rail Pins For Above	
wailable in Pack M	ultiples only	

DESCRIPTION

Раск Qту 16 100

FLOOR CLIPS



PART NO.	DESCRIPTION	Pack Qty
JGUFHCLIP	Floor Clip	100
Available in Pack Multiples only.		

FIXING TOOL

JGUFHTOOL	For Easy Fixing Of Floor Clips	1
PART NO.	DESCRIPTION	Раск Qту

EDGE STRIP



JGUFHEDGE	25 Metre Roll	1
PART NO.	DESCRIPTION	Раск

OVERFIT® BOARD

	PART NO.	DESCRIPTION MM X MM	Раск Дту
and the second	JGUFHBOARD1	Overfit Board 1250 x 600	10

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

UNDERFIT[®] BOARD

13	PART NO.	DESCRIPTION MM X MM	Раск Qту
1.11	JGUFHBOARD2	Underfit Board 1200 x 350	10
Carlo and and an	Used to install underfloor h	eating pipe between existing joists.	

FLOOR PANELS



 Part No.	DESCRIPTION MM X MM	Раск Qту
JGUFHTILE	Floor Tile 1400 x 800	12

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





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



💯 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	Box Qty
3. 8	JGSTATW2W	Wireless Stat (230v) - White	1
	JGSTATW2B	Wireless Stat	1
		(230v) - Black	

JG AURA WIRELESS THERMOSTAT - BATTERY



PART NO.	DESCRIPTION	Box Qty
JGSTATW1W	Wireless Stat	1
	(Battery) - White	
JGSTATW1B	Wireless Stat	1
	(Battery) - Black	

JG AURA HUB



PART NO.	DESCRIPTION	Box Qty
JGHUB2	JG Hub 1-30	11



AURA WIRELESS COORDINATOR



1000	Windows On and in stars	QTY
JGCO	Wireless Coordinator	1

JG AURA WIRELESS BOILER RECEIVER



PART NO.	DESCRIPTION	Box Qty
JGBR	Boiler Receiver	1

Pack QTY 1

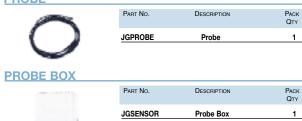
JG AURA WIRELESS 8 ZONE WIRING CENTRE

	PART NO.	DESCRIPTION	Box Qty
- 18	JGWCW	Wireless 8 Zone Wiring Centre	1

JG AURA HUB USER LICENCE

-	PART NO.	DESCRIPTION	
Amin are w	JGHUB1	JG Hub User Licence	
and the second second			

PROBE



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.

JG AURA WIRELESS TRV



JG AURA APP

aura

Utmate com

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.



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 ple ("Salus"), which is a third party supplier of the software. John Guest Ld and affiliate 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 eriability or suitability of the software or applications provided by Salus. The John Guest Group disclams 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.



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	Box Qty
JGSTAT2W	230v Thermostat & H/W - White	1
JGSTAT2B	230v Thermostat & H/W - Black	1

JG AURA 230v DIAL THERMOSTAT



Part No.	DESCRIPTION	Box Qty
GSTAT1	230v Dial Thermostat	1

JG AURA 230v 8 ZONE WIRING CENTRE

J

*	-	JGWC	230v 8 Zone Wiring Centre	1
		PART NO.	DESCRIPTION	QTY



UNDERFLOOR HEATING FOR CONSERVATORIES AND EXTENSIONS

The Speedfit Underfloor Heating Control Unit is the ideal way to provide heating to a conservatory or room extension up to 30sqm.

The unit is pre-assembled and pre-wired to allow for a fast and simple installation. It can be plugged into any convenient electrical socket or spur.



Now featuring new JG Aura Underfloor Heating Controls

CONTROL UNIT



PART NO.	DESCRIPTION	Раск Qту
JGROOMPACK/2	Single Room Control Unit	1
For conservatories or re	Control Unit	m².

SINGLE ROOM UNDERFLOOR HEATING PACK



		QTY
JGUFHPACK20/3	Underfloor Heating Pack	1
For conservatories or	room extensions up	to 20m ² .
Pack contains:		
1 x 15mm x 150m 0 1 x Single Room Co		
1 x JG Aura Progra	mmable 230v Roo	m Thermostat
200 x 15mm Pipe C	lips	

DESCRIPTION

DACK

2 x 15mm Pipe Inserts





For conservatories or room extensions up to 30m².

- Pack contains:
- 2 x 15mm x 100m Coils of Pipe
- 1 x Single Room Control Unit
- 1 x JG Aura Programmable 230v Room Thermostat 300 x 15mm Pipe Clips
- 8 x 15mm Pipe Inserts
- 2 x 15mm Speedfit Equal Tees
- 2 x 15mm Speedfit Stem Elbows

WIRELESS SINGLE ROOM **UNDERFLOOR HEATING PACK**



Heating Pack For conservatories or room extensions up to 30m².

DESCRIPTION

Раск Qту

1

- 1 x JG Aura Wireless Programmable Room Thermostat
- - 2 x 15mm x 100m Coils of Pipe
- 2 x 15mm Speedfit Equal Tees
- 2 x 15mm Speedfit Stem Elbows
- 1 x 2 Zone Wireless Receiver

Please Note: The additional purchase of the JG Hub will allow Internet Facility.

UNDERFLOOR HEATING SPARE PARTS

Spare parts listed below in 2 tables. They relate to manifolds launched on April 1st 2014 which can be indentified with the red flow gauges. Items listed as prior to April 2014 refer to previously available manifolds.

SPARE PARTS FOR MANIFOLDS **LAUNCHED APRIL 2014**

Part No.	DESCRIPTION	
MKIT01	Manifold Flow Meter	
MKIT02	Manifold Circuit Isolating Valve	
МКІТ03	Decorators Cap Return Manifold	
MKIT04	Drain Valve	
MKIT05	Auto Air Vent	
MKIT06	Manual Air Vent	
MEKIT01	1 Port Manifold Extension	
MVKIT01	22mm Angle Ball Valve	
MVKIT02	22mm Straight Ball Valve	
MVKIT03	Service Kit for JGCONTROL/4	
PUMP-GA	6M 'A' Rated Grundfords Pump	

SPARE PARTS FOR MANIFOLDS **PRIOR TO APRIL 2014**

Part No.	DESCRIPTION	
SPUFH7	Manifold Ball Valve - Red	
SPUFH8	Manifold Ball Valve - Blue	
SPUFH9	Drain/Filling Valve	
SPUFH10	Manifold Flow Meter	
SPUFH11	Manifold Isolating Valve	
SPUFH13	UFH Air Vent	
SPUFH14	PTFE Washer	
SPUFH15	Service Kit - JGCONTROL/2	
SPUFH16	Service Kit - JGROOMPACK	
SPUFH17	Connection Box - STAT	

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	Maximumworking temperature, °C	Maximum working pressure, bar
Cold Water (indirect and direct	20 : mains)	20	12
Central Heatin	g 82	105, short term malfunction at 114	3
Hot Water	65 I cylinders)	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	-

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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 BS800: 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 andbehind 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 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 accidently. 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.

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

• DO NOT USE FOR Gas, Fuel Oil or Compressed Air Applications or Hot Water.

- 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	

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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5BPEX-20X6L	13	FLX16P	15	MW052206N	11	PEM3028BW	9	UG104B	26
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5BPEX20X6L-R 5BSC	13 12	FLX20P FLX21P	15 15	MW501514N MW502216N	11	PEM532210WP	19	UG222525B	26
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5BV	12	FLX23P	15	NC2511	24	PEM532215WP	19	UG232AB	26
5BVP	22	FLX24P	15	NC448	24	PEM571515W	9	UG301B	26
5CFB	14	FLX25P	15	NC471	24	PEM571515WP	19	UG302B	26
5DCV	11	FLX26P	15	NC473	24	PEM572222W	9	UG303B	26
5DCVP	22	FLX27P	15	NC737	24	PEM572222WP	19	UG401B	26
5DCSV	12	FLX28	15	NPC10	14	PEMBTC1014	10	UG402B	26
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NOTES

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