John Guest Speedfit Limited

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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 is supplies them.

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

John Guest produce a push fit system of pipe and fittings for compressed air situations. See seperate literature for details.

The company has a policy of continuous research and development and reserves the right to amend without notice the specification and design of all products illustrated in this catalogue. John Guest Speedfit reserve the right to change the colour and shape of products. Photographs are for illustration purposes only.

Subject to our Terms and Conditions of Sale available on request.

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Your Local Agent



THE PUSH-FIT SOLUTION FOR PLUMBING & HEATING SYSTEMS

Speedfit Fittings are suitable for use with copper pipe.



Includes this new addition:





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.

















British Gas Service



J Speedfit[®]

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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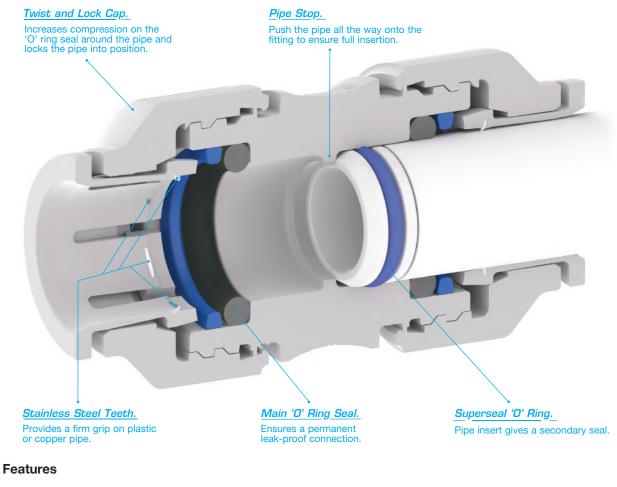
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J Speedfit[®]

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 lenghts or coils, the flexible system will ensure a fast, simple and reliable installation.



- Truly demountable without damage to pipe or fitting
- Superseal Insert gives secondary seal
- 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

- Grip and seal connection
- Reduced pipe insertion force
- 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 lenghts reduce fittings required

MARKET SCOPE

The nature of reliable and fast connections means that a wide variety of markets have adopted Speedfit Technology.





Housebuilding

The speed of connections and long lenghts of flexible pipe mean housing plumbing installations can be reduced by up to 40%. Since the early 1990's, hundreds of thousands of new build properties around the world have been installed with a JG Speedfit plumbing system.

Refurbishment

The wide variety of products that JG Speedfit manufactures means that there is always the right solution for every project and application type. Speedfit products have been specifically designed to ensure minimum disruption to existing systems when undertaking additional plumbing works on a property. With no blowtorch requirement, the risk of property fire damage caused by hot works is also removed.

<u>Boats</u>

The ability to connect Speedfit fittings in tight spaces without the need for hot works has made the system a leader within the boat market.



<u>Caravans</u>

Speedfit fittings have been the plumbing system of choice for caravan manufacturers for several years. Pipe elasticity also means that the possibility of bursting under freezing conditions is greatly reduced.



Portable Building / Pods

The speed, ease, and demountability of connections make JG Speedfit the ideal system choice when used in a manufacturing enviroment.



OEM Design

The speed, ease, and demountability of connections make JG Speedfit the ideal system choice when used in a manufacturing environment.

04

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.

MAKING A GOOD CONNECTION

PREPARE THE PIPE

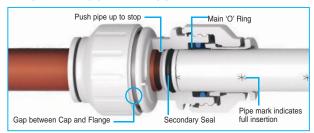
Fittings and pipe should be kept clean bagged and undamaged before use.



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

Twist the screwcap until it

touches the body flange. This

increases the 'O' ring seal around the pipe and locks the

pipe into position.

leaving the site or before use. Our recommended test procedure is shown in our Technical Checklist.

ADDED BENEFIT OF TWIST AND LOCK



STANDARD SPEEDFIT FITTINGS



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

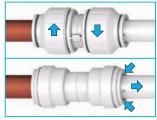
Push Pipe up to Pipe Stop. If the Speedfit Pipe has been cut correctly the insertion mark on the pipe will be level with the collet head.



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

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 iniury.

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

PLUMBING FITTINGS



EQUAL STRAIGHT CONNECTOR



Part	SIZE	BAG	SMALL	LARGE
No.	MM	Qty	Box	Box
PEM0410W	10	10	150	
PEM0415W	15	10	60	400
PEM0422W	22	5	30	200
PEM0428W	28	2	10	
Suitable for central heati	ng systems.			

REDUCING STRAIGHT COUPLER



PEM201510W 15 x 10 10 PEM202215W 22 x 15 5 Suitable for central heating systems.

SIZE MM

EQUAL ELBOW



PART NO.	SIZE MM	Bag Qty	Small Box	Large Box
PEM0310W	10	10	150	1000
PEM0315W	15	10	50	400
PEM0322W	22	5	25	150
PEM0328W	28	2	10	
Suitable for central heat	ing systems.			

STEM ELBOW



PART NO.	PIPE	Stem MM	Bag Qty	Small Box	Large Box
PEM221010W	10	10	10	200	
PEM221015W	10	15	10	150	
PEM221515W	15	15	10	80	500
PEM222222W	22	22	5	30	

Provides a swivel type connection. 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.

EQUAL TEE



PART NO.	SIZE MM	Bag Qty	Small Box	Large Box
PEM0210W	10	10	100	
PEM0215W	15	5	40	250
PEM0222W	22	5	15	100
PEM0228W	28	2	8	

REDUCING TEE



Sizes listed as follows.

3

1

- 2

PART NO.	Size MM	Bag Qty	SMALL BOX	Large Box
PEM3015BW	15x10x10	10	60	
PEM3015AW	15x15x10	5	40	
PEM3022CW	15x15x22	5	25	
PEM3022BW	22x15x15	5	25	150
PEM3022DW	22x15x22	5	15	150
PEM302210AW	22x22x10	5	20	
PEM3022AW	22x22x15	5	15	150
PEM3028BW	28x22x22	2	10	
PEM3028DW	28x22x28	2	10	
PEM302810AW	28x28x10	2	10	
PEM302815AW	28x28x15	2	10	
PEM3028AW	28x28x22	2	10	

Suitable for central heating systems.

REDUCING ELBOW



PART NO.	SIZE	BAG	Bo
	MM	Qty	Q
PEM211510W	15 x 10	10	5
PEM212215W	22 x 15	5	4

Box Qty

30

25

STEM TEE

Box Qty

80 40

Bag Qty





Sizes listed as follows



FEMALE COUPLER - TAP CONNECTOR



Requires hand tightening only.

PART NO.	SIZE MM X BSP	Bag Qty	SMALL BOX	Large Box
PSE3210W	10 x 1/2"	10	150	
PSE3201W	15 x 1/2"	10	100	600
PSE3203W	15 x 3/4"	5	70	
PSE3202W	22 x 3/4"	5	50	400

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 With brass swivel nu	0,		

For torque figures see Technical Checklist.

BENT TAP CONNECTOR



PART NO.	SIZE MM X BSP	Bag Qty	Bo: QT	
PEMBTC1014	10 x 1/2"	10	15	
PEMBTC1514	5	50		

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

STOP END

		1		
		di.		
			1	
and the second s				

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	

REDUCER



Part No.	SIZE MM	Bag Qty	Small Box	Large Box
PEM061510W	15 x 10	10	150	1000
PEM062215W	22 x 15	10	70	
PEM062815W	28 x 15	5	40	
PEM062822W	28 x 22	5	30	

J Speedfit[®]

TANK CONNECTOR



Requires hand tightening only.	PART NO.	SIZE	Bag Qty	Box Qty
Maximum wall	CM0715S	15	10	60
thickness	CM0722S	22	5	20
of tank = 4mm.	CM0728S	28	1	10

Suitable for cold water tanks only.

PLUG

PART NO.	SIZE MM	Bag Qty	Box Qty
PL10	10	10	500
PL15	15	10	250
PL22	22	10	100
PL28	28	10	50
Suitable for cent	ral heating systems		

SIZE

15

22

SIZE

15

22

Suitable for central heating systems

Bag Qty

1

1

Bag Qty

1

1

Вох Qтy

80

50

Box Qty

80

40

PIPE REPAIR KIT



Provides a simple way of repair on a rigid pipe run.

Remove a damaged section of pipe and replace with a repair kit

PART NO.

15TKP

22TKP

SLIP TEE CONNECTOR



Provides a simple way to break into an existing pipe run

PLASTIC BACK PLATE ELBOW



PARI NO.	MM X BSP	QTY	QTY
15PWB	15 x 1/2"	1	25
Hot and cold wa Protect from su	tter only, 65°C maximu nlight and frost.	m.	

WING BACK ELBOW



PART NO.	SIZE	Bag	Bo
	MM X BSPT	Qty	Qt
UGPWB1514	15 x 1/2"	1	150

4 PORT RAIL MANIFOLD



VALVES

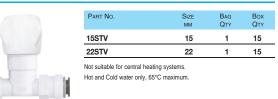
 $1/4\ Turn\ Valves.$ These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.

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



APPLIANCE TAP *



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15APT	15 x 3/4"	5	40
Not suitable for cen	tral heating systems.		
For maximum torqu please see Technic	e figures on plastic thread	i,	

APPLIANCE TEE *



PART NO.	SIZE MM X BSP	Bag Qty	E
15APT2	15 x 3/4"	5	:

SIZE

15

Bag Qty

5

Box Qty

40

EMERGENCY SHUT OFF TAP

PART NO.

15 ESOT

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



ANGLE STOP VALVE *



PART NO.	SIZE MM X INCH	Раск Qту	Box Qty
ASV3	15 x 1/4"	1	30
ASV4	15 x 3/8"	1	25

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

DOUBLE CHECK VALVE

	PART NO.
	15DCV
_	

PART NO.	Size MM	Bag Qty	Box Qty
15DCV	15	5	50

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

PLASTIC SERVICE VALVE *

PART NO.	Size MM	Bag Qty	Вох Qту
15SV	15	5	50
22SV	22	5	25

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

PLASTIC BALL VALVE *



	MM	Qty	Qty
15SV-H	15	1	40
22SV-H	22	1	20
Not suitable for central h	neating systems. Eac	h valve has red an	d blue indices.

PLASTIC SERVICE VALVE WITH TAP CONNECTOR *



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15SVSTC	15 x 1/2"	5	50
15SVSTC-W	15 x 1/2"	5	50

PLASTIC ANGLE SERVICE VALVE WITH TAP CONNECTOR *



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15SVBTC	15 x 1/2"	5	50
15SVBTC-W	15 x 1/2"	5	50

BRASS MANIFOLD



PART NO.	DESCRIPTION	SIZE BSP X MM	Раск Qту	Вох Qту
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
Only suitable for cent	ral heating systems.		
Manufactured in DZR	Brass.		

BRAIDED AND PVC FLEXI HOSES



A full range of metal and braided flexi-hoses are available with Speedfit push-fit technology. Please visit www.jgspeedfit.com for more range information.

BRASS FITTINGS



BRASS MALE COUPLER



PART NO.	SIZE	BAG	Bo
	MM X BSPT	Qty	QT
MW011504N	15mm x 1/2" BSPT	5	10
MW012206N	22mm x 3/4" BSPT	5	5
MW012808N	28mm x 1 BSPT	5	20
PART NO.	SIZE MM X BSP	Bag Qty	Bo Qt
10MC (1/2)	10mm x 1/2" BSP	5	10
15MC (1/2)	15mm x 1/2" BSP	5	10
22MC (3/4)	22mm x 3/4" BSP	5	50

BRASS FEMALE COUPLER



MW452216N	22 x 3/4"	5	50
MW451514N	15 x 1/2	5	50
PART NO.	SIZE MM X BSP	Bag Qty	Box Qty

Suitable for central heating systems Manufactured in DZR Brass.

Manufactured in DZR Brass

BRASS FEMALE STEM ADAPTOR

IW501514N	15 x 1/2"	5
Part No.	SIZE MM X BSP	Bag Qty

Converts Speedfit to female threa

BRASS BACK PLATE ELBOW



PART NO.	SIZE MM X BSP	Bag Qty	Box Qty
15WB	15 x 1/2"	1	20
22WB	22 x 3/4"	1	10
Manufactured in D2	ZR Brass.		10
Manufactured in D2 Suitable for central SHORT VERSION	ZR Brass.		10

SIZE MM X BSPT

15 x 1/2"

22 x 3/4"

Bag Qty

5

5

10

Box Qty

100

50

20

BRASS MALE STEM ADAPTOR



Converts Speedfit to male thread

MW052818N	28 x 1" BSP
Suitable for central he	eating systems.
Manufactured in DZR	Brass.

PART NO.

MW051504N

MW052206N

JC Speedfit[®] Blue



A 20 - 32mm range of fittings for MDPE pipe are available for cold water pipe applications. The procedure for connecting and disconnecting the fittings is similar to that for Speedfit fittings, as shown on page 5.

The range includes a variety of fitting types and valves. For more information on this particular range, please visit www.jgspeedfit.com.

Je Speedfit®

PIPE AND ACCESSORIES WRAS

()) Layflat Pipe

Lays Flat - Stays Flat - Ultra Flexible

JG LAYFLAT[®] POLYBUTYLENE BARRIER PIPE PART NO.



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 he	ating systems.		

SIZE MM X M

Раск Qту

Box Qty

SPEEDFIT PEX BARRIER PIPE



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

PART NO.	Size MM X M	Раск Qту	Box Qty
10BPEX-25C	10 x 25	1	20
10BPEX-50C	10 x 50	1	10
10BPEX-100C	10 x 100	1	6
15BPEX-25C	15 x 25	1	8
15BPEX-50C	15 x 50	1	5
15BPEX-100C	15 x 100	1	5
15BPEX-120C	15 x 120	1	5
15BPEX-150C	15 x 150	1	4
22BPEX-25C	22 x 25	1	8
22BPEX-50C	22 x 50	1	5

Size MM X M

15 x 2

15 x 3

15 x 6

22 x 2

22 x 3

22 x 6

28 x 3

28 x 6

Раск Qту

20

20

20

20

20

10

10

Раск Qту 1 1

20

Suitable for central heating systems. **SPEEDFIT PEX BARRIER PIPE**

22BPEX-20x3L

22BPEX-20x6L

28BPEX-10x3L

* 28BPEX-10x6L

Suitable for central heating systems.



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

Minimum order for 6m lenghts is 10 packs. * By special order only.

PIPE IN PIPE

	Part No.	Size MM X M	
00000000000	15PIP-50C-E	15 x 50	
- WHICH AND ADDRESS	22PIP-50C-E	22 x 50	

CONDUIT PIPE



	Part No.	SIZE MM X M	Раск Оту
Black	15BLK CON - 25C	15 x 25	1
	15BLK CON - 50C	15 x 50	1
	22BLK CON - 25C	22 x 25	1
	22BLK CON - 50C	22 x 50	1
Red	15RED CON - 50C	15 x 50	1
Rea	22RED CON - 50C	22 x 50	1
	15BLU CON - 50C	15 x 50	1
Blue	22BLU CON - 50C	22 x 50	1

PIPE INSERT

	PART NO.	SIZE	Bag Qty	Small Box	Large Box
	TSM10N	10	50	1000	20,000
	TSM15N	15	50	500	5000
To be used when connecting Speedfit	TSM22N	22	25	250	2000
Pipe to a compression fitting.	TSM28N	28	10	150	1000
	0.1111.0				

Suitable for central heating systems

SUPERSEAL PIPE INSERT

To be used with Speedfit Pipe and Speedfit fittings, to give enhance sealing.
See page 3 for details.

	PART NO.	SIZE MM	Bag Qty	Small Box	Large Box
	STS10	10	50	1000	12,500
	STS15	15	50	500	5000
and nced	STS22	22	25	250	2000
	STS28	28	10	150	1000
	Suitable for centra	al heating syste	ms.		

CONDUIT ELBOW



PART NO.	Size	Bag QTY	Раск Qту
CONELB	FITS 10, 15 & 22mm	10	70

FOIL TAPE



PART NO.	SIZE	Pack Qty
JGTAPE	50 x 45	8

Раск

Box

PIPE CLIPS AND SPACERS

PART NO.



			MM	Qty	Qty	
1	White	PC15W	15	50	200	1
		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	
		-				-

SIZE

NAIL CLIP

PART NO.	Size MM	Раск Qту	Bo Q1
NPC10	10	50	10
NPC15	15	50	40
NPC22	22	50	25
NPC28	28	20	20

PIPE CUTTER

for up to 22mm size nine	

TART NO.	QTY	QTY
PART NO.	Раск Qту	Pack Qty

For up to 22mm size pipe.

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	20	20	12
(indirect and direct	mains)		
Central Heatin	g 82	105, short term	3
		malfunction at 114	
Hot Water	65	95	6
(including unvented	cylinders)		

- 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	80mm	175mm	225mm	300mm
Min radius with cold forming bend	30mm	75mm	110mm	-

• Minimum Bend Radii (BPB)

Pipe Diameter	10mm	15mm	22mm	28mm
Min radius with clips	80mm	120mm	176mm	-
A fine we alive weith a shall fermation to see al	00	70	110	

 Will radius with cold forming bend	2011111	7 311111	TTOMIM	-
Clip Spacing (in mm)				

For Surface Mounted Pipes

	Pipe Diameter	Clip Spacing		
		Horizontal Run	Vertical Rur	
1	10 15	000	E00mm	

10-15mm	300mm	500mm
22mm	500mm	800mm
28mm	800mm	1,000mm

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

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

- Connection to Boilers. A minimum 1 metre run of copper pipe must be installed between the boiler and the Speedfit system, as per BS5955: Part 8.
- Connection to Copper Pipe. 450mm is the minimum distance to make a solder connection on copper pipe inserted into a Speedfit Fitting. Ensure that any residual flux and solder does not come into contact with the fitting.
- Concrete and Masonry. Speedfit pipe and fittings can be laid in concrete and
 masonry providing they are installed in conduit pipe with access boxes for the
 fittings. This is to enable the pipe to expand and to provide accessibility for both
 pipe and fitting. As stated in Water Regulation Schedule 2.7 and BS8000: Part
 15, fittings and pipe should be removable for possible replacement. Insulation is
 also recommended to protect against heat loss and the effects of frost.
- Electrical Continuity. If Speedfit is used in an existing metal system which
 may have been used for earthing, electrical continuity should be reinstated.
- Valves and Taps. Plastic 15mm and 22mm valves and taps available from JG Speedfit Ltd are not suitable for central heating installations.
- 1/4 Turn Valves. These valves have been designed to allow temporary servicing of downstream equipment and must only be used in the fully open or fully closed position.
- Do Not use these Valves:
 - In a partially open position to control flow.
 - To provide a permanent termination.
- Without tubing assembled or plugged (or threaded connections sealed).As a tap or "faucet".
- **Collet Covers.** Collet covers provide added security against pipe disconnection, e.g. the fittings coming into contact with rigid surfaces 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 should not be regarded as a substitute for correct installation. See also "Making a Good Connection".
- System Flushing. As is usual practice for any plumbing installation, flushing of the system prior to the use of Speedfit is recommended to remove any contaminants/chemical residue from elsewhere in the system.
- British Gas Service has accepted the John Guest Speedfit fittings as being suitable for open vented and sealed central heating systems and as eligible for acceptance onto its service contracts.
- Products within this Price List are designed for use within UK plumbing and heating installations or in other countries where similar installation requirements apply. For information on products suitable for use in other countries please consult our Technical Advisory Service.
- Vermin. Speedfit products should not be used in vermin infested areas.
- Maximum Torque Figures (BSP & BSPT). Plastic threads are not generally
 as strong as brass threads. Customers and end users should be aware of this
 when choosing products for their applications. Overtightening of plastic threads
 will cause undue stress and eventual cracking and leakage. The maximum
 torque figures for BSP and BSPT threads used on Speedfit plumbing products
 in mating threads conforming to relevant BS or International thread standards
 are shown below.

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

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

 Side Loads. John Guest products are not designed to be used whilst under side load as this may adversely affect their ability to function long-term. always ensure tubes have good alignment with the fitting. They must also not be subjected to any form of impact or other damage, such as being hit or dropped, even 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.