Drinks Dispense And Pure Water Super Speedfit Fittings, Valves and Tubing



February 2014



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.

John Guest offer the widest range of push-fit fittings, tube and other fluid control products for drinks dispense and pure water applications.

The world's first food quality push in fitting, the John Guest range is now over 800 items strong and provides the quickest and most effective of installations. Pushing the tube into the fitting is all that is needed to produce an instant but permanent leakproof connection.

The fittings are just as easy to disconnect and re use without the need for replacement parts.

The products in this catalogue are produced in FDA compliant materials making them especially suitable for potable liquids. Selected items can also be used for inert gases such as CO².



FAST INSTALLATION TIME 'RIGHT FIRST TIME EVERY TIME' SUITABLE FOR SOFT METAL OR PLASTIC TUBES **NO TOOLS NEEDED** QUICK DISCONNECTION **RE-USABLE**

SUPERIOR FLOW CHARACTERISTICS

Accepted by almost all the world's beer and beverage producers and by the manufacturers of drinks dispense equipment, John Guest products have quality and performance approvals from leading esting and acceptance authorities.



NSF 51 NSF 61













Since 1989

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Inch Size Fittings

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Metric to Imperial Adaptors

Metric to Imperial Adaptors

Converts metric sizes to inch and inch sizes to metric.

19



Metric Size Fittings					
CM Fittings	For drinks and other potable liquids.	20			
PM Fittings	Black acetal for liquids and inert gases	21 - 24			
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Valves, LLDPE Tube and Accessories

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How Super Speedfit Works

To make a connection, the tube is simply pushed in by hand; the unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting flow.

Materials of construction

'O' ring provides a

leakproof seal

Super Speedfit fittings are made up of three components:

Bodies are produced in an acetal copolymer or polypropylene. 'O' rings are Nitrile rubber or EPDM.

Collets are produced in acetal copolymer or polypropylene with stainless steel teeth.

Grips before it seals

The Collet (gripper) has stainless steel teeth which hold the tube firmly in position while the 'O' ring provides a permanent leakproof seal.

How to make a connection

Cut the tube square



Cut the tube square and remove burrs and sharp edges. Ensure the outside diameter is free of score marks. For soft or thin walled tube we recommend the use of a tube insert.

Push up to tube stop



Push the tube into the fitting, to the tube stop.

Pull to check secure



Pull on the tube to check it is secure. Test the system before use.

Collet

Stainless steel teeth grip the pipe

To disconnect

Push in collet and remove tube



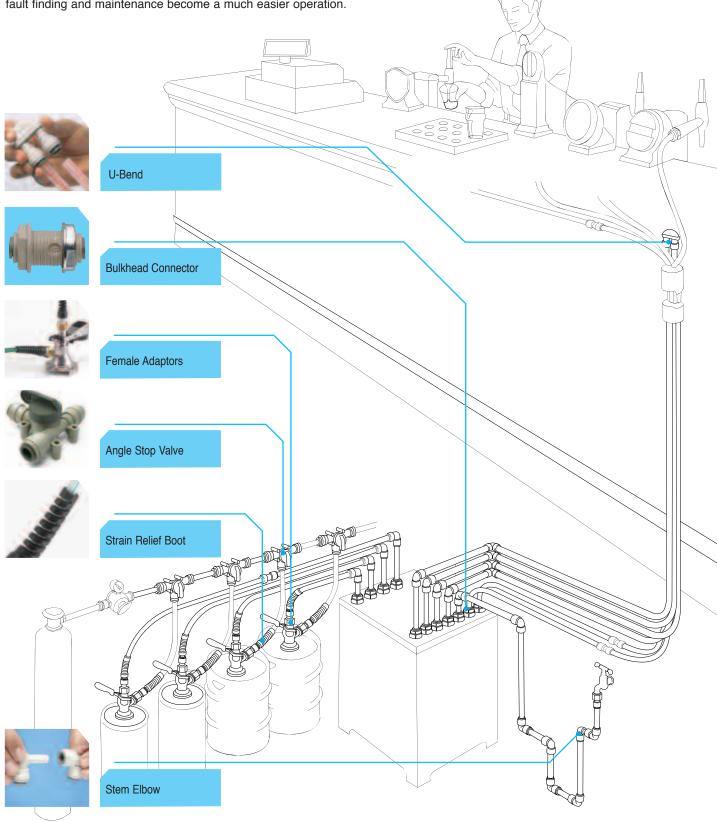
To disconnect, ensure the system is depressurized, push the collet square against the fitting. With the collet held in this position the tube can be removed.

JG John Guest®

Typical Bar Installation

Super Speedfit push-in fittings have been designed for a wide range of industrial applications. They provide a fast and secure way of connecting tubes and offer considerable advantages over conventional fittings.

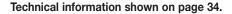
Complex tubing systems can be assembled more rapidly than with traditional methods and because Super Speedfit fittings are easy to disconnect, fault finding and maintenance become a much easier operation.



JOhn Guest®

Grey Acetal Fittings

PI fittings offered in sizes 5/32" to 5/8" are manufactured in grey acetal copolymer, making them especially suitable for applications involving foodstuffs and potable liquids. They are however equally suitable for air and inert gases and can be used on N²/CO² (installed in accordance with The British Beer and Pub Association Code of Practice) mixed gas dispense lines and in pneumatic applications and vacuum.





for liquids & inert gases

STRAIGHT ADAPTOR BSPT Thread



PART NO.	TUBE OD	1	HREAD BSPT
PM010401S	5/32	х	1/8
PM010402S	5/32	х	1/4
PI010601S	3/16	х	1/8
PI010602S	3/16	х	1/4
PI010801S	1/4	х	1/8
PI010802S	1/4	х	1/4
PM010801S	5/16	х	1/8
PM010802S	5/16	х	1/4
PM010803S	5/16	х	3/8
PI011202S	3/8	х	1/4
PI011203S	3/8	х	3/8
PI011603S	1/2	х	3/8
PI011604S	1/2	x	1/2

STRAIGHT ADAPTOR BSP Thread





NCPI011212S 3/8 x 1/4 3/8" x 1/4" has special large seal for use with chamfered face ports.

No thread seal on 3/8" x 1/8"

STRAIGHT ADAPTOR NPTF Thread



PART NO.	TUBE OD		THREAD NPTF
PM010421S	5/32	x	1/8
PM010422S	5/32	х	1/4
PI010621S	3/16	х	1/8
PI010821S	1/4	x	1/8
PI010822S	1/4	х	1/4
PI010823S	1/4	х	3/8
PM010821S	5/16	х	1/8
PM010822S	5/16	х	1/4
PM010823S	5/16	Х	3/8
PI011221S	3/8	х	1/8
PI011222S	3/8	х	1/4
PI011223S	3/8	x	3/8
PI011224S	3/8	х	1/2
PI011623S	1/2	х	3/8
PI011624S	1/2	х	1/2
PI012026S	5/8	х	3/4

STRAIGHT ADAPTOR British Nipple Type



PART NO.	TUBE OD		THREAD BSW
PI0106E5S	3/16	х	1/2 - 24
PI0108E5S	1/4	х	1/2 - 24
PM0108E5S	5/16	х	1/2 - 24
PM0108E6S	5/16	х	9/16 - 24
PI0112E5S	3/8	х	1/2 - 24
PI0112E6S	3/8	X	9/16 - 24

STRAIGHT ADAPTOR MFL Thread

6			
PART NO.			THREAD
	00		MFL
PI0108F4S	1/4	х	1/4
PI0112F4S	3/8	х	1/4
PI0112F5S	3/8	х	5/16
PI0112F6S	3/8	х	3/8
PI0112F8S	3/8	х	1/2
PI0116F8S	1/2	х	1/2
PM0108C5S	5/16	х	1/2 - 16 UN
PI0112C5S	3/8	x	1/2 - 16 UN

STRAIGHT ADAPTOR BSP Thread

C				
PART NO.	TUBE	1	THREAD	
	OD		BSP	
PI010812S	1/4	x	1/4	
PI011212S	3/8	х	1/4	
PI011213S	3/8	х	3/8	
PI011613S 1/2 x 3/8				
For use with s	spot face	e po	orts.	

OUTLET ADAPTOR Parallel Thread



EQUAL ELBOW

50		
PART NO.	TUBE	
	OD	
PM0304S	5/32	
PI0306S	3/16	
PI0308S	1/4	
PM0308S	5/16	
PI0312S	3/8	
PI0316S	1/2	
PI0308S-B	1/4	Blue Collet

RIGID ELBOW

NPTF Thread



PART NO.	TUBE OD	1	THREAD NPTF
PI480821S	1/4	х	1/8
PI480822S	1/4	х	1/4
PI480823S	1/4	х	3/8
PI481022S	5/16	х	1/4
PI481023S	5/16	х	3/8
PI481222S	3/8	х	1/4
PI481223S	3/8	х	3/8
PI482024S	5/8	х	1/2

EQUAL STRAIGHT CONNECTOR

TUBE		
OD		
5/32		
3/16		
1/4		
5/16		
3/8		
1/2		

REDUCING ELBOW

50				
PART NO.	TUBE		TUBE	
	OD		OD	
PM210804S	5/16	-	5/32	
PI211006S	5/16	-	3/16	
PI211008S	5/16	-	1/4	
PI211206S	3/8	-	3/16	
PI211208S	3/8	-	1/4	
PI211210S	3/8	-	5/16	
PI211610S	1/2	-	5/16	
PI211612S	1/2	-	3/8	

REDUCING STRAIGHT CONNECTOR

	(
PART NO.	TUBE		TUBE	
	OD		OD	
PI200806S	1/4	-	3/16	
PM200804S	5/16	-	5/32	
PI201006S	5/16	-	3/16	
PI201008S	5/16	-	1/4	
PI201206S	3/8	-	3/16	
PI201208S	3/8	-	1/4	
PI201210S	3/8	-	5/16	
PI201608S	1/2	-	1/4	
PI201610S	1/2	-	5/16	
PI201612S	1/2	-	3/8	

STEM ELBOW

5			
PART NO.	STEM		TUBE
	OD		OD
PM220404S	5/32	-	5/32
PI220606S	3/16	-	3/16
PI220808S	1/4	-	1/4
PM220808S	5/16	-	5/16
PI221206S	3/8	-	3/16
PI221208S	3/8	-	1/4
PI221210S	3/8	-	5/16
PI221212S	3/8	-	3/8
PI221616S	1/2	-	1/2

EQUAL TEE

5		
PART NO.	TUBE	
	OD	
PM0204S	5/32	
PI0206S	3/16	
PI0208S	1/4	
PM0208S	5/16	
PI0212S	3/8	
PI0216S	1/2	

REDUCING TEE





J John Guest[®] Adaptability

BSPT Thread

NPTF Thread

SWIVEL ELBOW



PART NO.	TUBE OD	T	THREAD BSPT
PI090601S	3/16	х	1/8
PI090801S	1/4	х	1/8
PI090802S	1/4	х	1/4
PM090801S	5/16	х	1/8
PM090802S	5/16	х	1/4
PM090803S	5/16	х	3/8
PI091202S	3/8	х	1/4
PI091203S	3/8	х	3/8
PI091603S	1/2	х	3/8
PI091604S	1/2	х	1/2
F10910043	1/2	×	1/2

SWIVEL BRANCH TEE BSPT Thread

THREAD PART NO. TUBE OD BSPT PI100601S 3/16 x 1/8 PI100801S 1/4 x 1/8 PI100802S 1/4 x 1/4 PM100801S 5/16 x 1/8 PM100802S 5/16 x 1/4 PM100803S 5/16 x 3/8 PI101202S 3/8 x 1/4 3/8 x 3/8 PI101203S PI101603S 1/2 x 3/8 PI101604S 1/2 x 1/2

SWIVEL BRANCH TEE NPTF Thread

THREAD

NPTF

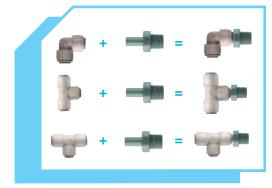


SWIVEL ELBOW

PART NO.	TUBE OD	THREAD NPTF		
PM090421S	5/32	x	1/8	
PM090422S	5/32	х	1/4	
PI090621S	3/16	х	1/8	
PI090821S	1/4	х	1/8	
PI090822S	1/4	х	1/4	
PM090821S	5/16	х	1/8	
PM090822S	5/16	х	1/4	
PM090823S	5/16	х	3/8	
PI091222S	3/8	х	1/4	
PI091223S	3/8	х	3/8	
PI091623S	1/2	х	3/8	
PI091624S	1/2	x	1/2	

John Guest Adaptability

Standard Super Speedfit products can be coupled together to form integral new fittings.





PM100421S PM100422S	5/32 5/32	x x	1/8 1/4	
PI100621S	3/16	х	1/8	
PI100821S	1/4	х	1/8	
PI100822S	1/4	х	1/4	
PM100821S	5/16	х	1/8	
PM100822S	5/16	х	1/4	
PM100823S	5/16	х	3/8	
PI101222S	3/8	х	1/4	
PI101223S	3/8	х	3/8	
PI101623S	1/2	х	3/8	
PI101624S	1/2	х	1/2	

SWIVEL MALE RUN TEE BSPT Thread

8	(final			
PART NO.	TUBE OD	1	HREAD BSPT	
PI110601S	3/16	х	1/8	
PI110801S	1/4	х	1/8	
PI110802S	1/4	х	1/4	
PM110801S	5/16	х	1/8	
PM110802S	5/16	х	1/4	
PM110803S	5/16	х	3/8	
PI111202S	3/8	х	1/4	
PI111203S	3/8	х	3/8	
PI111603S	1/2	х	3/8	
PI111604S	1/2	X	1/2	

SWIVEL MALE RUN TEE NPTF Thread

8	6		
PART NO.	TUBE OD	1	THREAD NPTF
PM110421S	5/32	х	1/8*
PM110422S	5/32	х	1/4*
PI110621S	3/16	х	1/8
PI110821S	1/4	х	1/8
PI110822S	1/4	х	1/4
PM110821S	5/16	х	1/8*
PM110822S	5/16	х	1/4
PM110823S	5/16	х	3/8*
PI111222S	3/8	X	1/4
PI111223S	3/8	х	3/8
PI111623S	1/2	X	3/8*
PI111624S	1/2	X	1/2*

* Obtained by using an Equal Tee shown on page 3 and a Stem Adaptor, shown on page 11.

STRAIN RELIEF BOOT



To suit most 3/8" or 1/2" fittings.

The Strain Relief Boot has been developed to reduce the potential strain on the tubing. The Boot limits the bend radius of the tube, preventing it from kinking.

Female Adaptors 4 Tube Sizes 5 Thread Forms 10 Thread Sizes



FEMALE ADAPTOR BSP Thread - Flat End	FEMALE ADAPTOR British Whitworth Thread	TAP
		PART N
PART NO. TUBE THREAD OD BSP	PART NO. TUBE THREAD OD BSW	
Pl451014FS 5/16 x 1/2 Pl451015FS 5/16 x 5/8 Pl451213S 3/8 x 3/8 Pl451214FS 3/8 x 1/2 Pl451215FS 3/8 x 5/8 Pl451613S 1/2 x 3/8	PM4508E5S 5/16 x 1/2 - 24 PI4512E6S 3/8 x 9/16 - 24	CI320 CI320 CI321 CI321 Not si
PI451615FS 1/2 x 5/8	FEMALE ADAPTOR UNS Thread	TAP
		C
	PART NO. TUBE THREAD OD UNS	PART N
FEMALE ADAPTOR BSP Thread - Cone End	PM4508C5S 5/16 x 1/2 - 16	CI320 CI321
	PI4512C5S 3/8 x 1/2 - 16 PI4516C5S 1/2 x 1/2 - 16	Not s
		TAP
PART NO. TUBE THREAD OD BSP	FEMALE ADAPTOR NPTF Thread	1
Pl451014CS 5/16 x 1/2 Pl451015CS 5/16 x 5/8 Pl451214CS 3/8 x 1/2 Pl451215CS 3/8 x 5/8		PART
PI45121505 5/6 x 5/6 PI451614CS 1/2 x 1/2 PI451615CS 1/2 x 5/8		CI320 CI321
PI451616CS 1/2 x 3/4	PART NO. TUBE THREAD OD NPTF	CI321 Not s
	PI450822S 1/4 x 1/4 PI451222S 3/8 x 1/4	
	 	KEG
BSP Thread -	FEMALE ADAPTOR FFL Thread	PART N
FEMALE ADAPTOR Small Cone End		PI5612
		KEG
PART NO TUBE THREAD	PART NO. TUBE THREAD OD FFL	KEU
OD BSP NCPI451214CS 3/8 x 1/2	PM4508F4S 5/16 x 1/4 PI4512F4S 3/8 x 1/4	5
Typically used on beer outlet/gas	PI4512F6S 3/8 x 3/8	PART N
inlet of keg couplers. Cone supports 'Top Hat' type Duck Bill Valve.	1/4 (FFL) corresponds to a 7/16 UNF3/8 (FFL) corresponds to a 5/8 UNF	PI561

	PTOR	BSF	P Thread
()			
PART NO.	TUBE OD	THREAD BSP	
Cl320814S Cl320816S Cl321214S Cl321216S Not suitable	3/8 3/8	x 3/4 x 1/2	
	PTOR	BSP Thread -	Flat End
0	(1)		
PART NO.	TUBE OD	THREAD BSP	
CI320816FS CI321216FS Not suitable	1/4 3/8 for air	x 3/4 x 3/4	
	PTOR	UN	S Thread
50]
PART NO.	TUBE OD	THREAD UNS	
CI3208U7S	1/4	x 7/16 - 24	

210U7S 5/16 x 7/16 - 24 212U7S 3/8 x 7/16 - 24

suitable for air

G BEER OUTLET ADAPTOR



G GAS INLET ADAPTOR



THREE WAY DIVIDER

PART NO.	TUBE ODTUBE OD INLET OUTLET
PI491612S PI491616S	1/2 - 3/8 1/2 - 1/2

THREE WAY DIVIDER

PART NO.	TUBE OD INLET	TUBE OD OUTLET			
	0.00	0./01			

PI491212S-R 3/8" - 3/8"

TWO-WAY DIVIDER

8		
PART NO.	TUBE OD	
PI2308S	1/4	
PM2308S	5/16	
PI2312S	3/8	
PI2316S	1/2	

UNEQUAL TWO-WAY DIVIDER

8		
PART NO.	TUBE OD TUBE OD INLET OUTLET	
PI241210S	3/8 - 5/16	-

BULKHEAD CONNECTOR

60		
PART NO.	TUBE OD	
PM1204S	5/32	
PI1206S	3/16	
PI1208S	1/4	
PM1208S	5/16	
PI1212S	3/8	
PI1216S	1/2	

REDUCING BULKHEAD CONNECTOR

	0	
PART NO.	TUBE OD	TUBE OD
PI121208S NC2429	3/8 1/4"	- 1/4 - 6mm

STEM AD	ΑΡΤΟ	R		BSPT Thread
-				
PART NO.	STEM OD	т	HREAD BSPT	
PI050601S	3/16	x	1/8	
PI050801S	1/4	х	1/8	
PI050802S	1/4	х	1/4	
PM050801S	5/16	х	1/8	
PM050802S	5/16	х	1/4	
PM050803S	5/16	х	3/8	
PI051202S	3/8	х	1/4	
PI051203S	3/8	х	3/8	
PI051603S	1/2	х	3/8	
PI051604S	1/2	x	1/2	

STEM AD	ΑΡΤΟ	DR		BSP Thread
-(•			
PART NO.	STEM OD	I	THREAD BSP	
PM050812S PI051212S	5/16	~	1/4 1/4	_
PI0512125 PI051213S	3/8 3/8			

STEM AD	ΑΡΤΟ	R		NPTF Thread
-				
PART NO.	STEM OD		THREAD NPTF	
PM050421S	5/32	х	1/8	
PM050422S	5/32	х	1/4	
PI050621S	3/16	х	1/8	
PI050821S	1/4	х	1/8	
PI050822S	1/4	х	1/4	
PI050823S	1/4	х	3/8	
PM050821S	5/16	х	1/8	
PM050822S	5/16	х	1/4	
PM050823S	5/16	х	3/8	
PI051222S	3/8	х	1/4	
PI051223S	3/8	х	3/8	
PI051623S	1/2	х	3/8	
PI051624S	1/2	X	1/2	

STEM ADAPTOR British Nipple Type PART NO. STEM THREAD

	OD BSW
PM0508E6S	5/16 x9/16 - 24
PI0512E5S	3/8 x 1/2 - 24
PI0512E6S	3/8 x 9/16-24

TUBE TO HOSE STEM

PART NO. STEM OD HOSE ID PI250806S 1/4 - 3/16 PI250808S 1/4 - 1/4 PI250806S 1/4 - 5/16 PI250808S 1/4 - 5/16 PI251006S 5/16 - 3/16 PI251008S 5/16 - 5/16 PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI251210S 3/8 - 3/8 PI251216S 3/8 - 3/8 PI251612S 1/2 - 3/8 PI251612S 1/2 - 3/8 PI251612S 1/2 - 3/8	-6				
PI250808S 1/4 - 1/4 PI250808S 1/4 - 5/16 PI251006S 5/16 - 3/16 PI251008S 5/16 - 1/4 PM250808S 5/16 - 1/4 PM250808S 5/16 - 3/8 PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI25120S 3/8 - 5/16 PI251210S 3/8 - 5/16 PI251210S 3/8 - 3/8 PI251210S 3/8 - 3/8 PI251210S 3/8 - 3/8 PI251210S 3/8 - 3/8 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PART NO.				
PI250810S 1/4 - 5/16 PI251006S 5/16 - 3/16 PI251008S 5/16 - 1/4 PM250808S 5/16 - 5/16 PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI251208S 3/8 - 1/4 PI251210S 3/8 - 5/16 PI251212S 3/8 - 3/8 PI251216S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PI250806S	1/4	-	3/16	
PI251006S 5/16 - 3/16 PI251008S 5/16 - 1/4 PM250808S 5/16 - 5/16 PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI251208S 3/8 - 1/4 PI251210S 3/8 - 5/16 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251216S 1/2 - 3/8	PI250808S	1/4	-	1/4	
PI251008S 5/16 - 1/4 PM250808S 5/16 - 5/16 PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI251210S 3/8 - 5/16 PI251210S 3/8 - 5/16 PI251210S 3/8 - 3/8 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PI250810S	1/4	-	5/16	
PM250808S 5/16 - 5/16 Pl251012S 5/16 - 3/8 Pl251208S 3/8 - 1/4 Pl251210S 3/8 - 5/16 Pl251210S 3/8 - 5/16 Pl251212S 3/8 - 3/8 Pl251216S 3/8 - 1/2 Pl251612S 1/2 - 3/8	PI251006S	5/16	-	3/16	
PI251012S 5/16 - 3/8 PI251208S 3/8 - 1/4 PI251210S 3/8 - 5/16 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PI251008S	5/16	-	1/4	
PI251208S 3/8 - 1/4 PI251210S 3/8 - 5/16 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251216S 1/2 - 3/8	PM250808S	5/16	-	5/16	
PI251210S 3/8 - 5/16 PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251216S 1/2 - 3/8	PI251012S	5/16	-	3/8	
PI251212S 3/8 - 3/8 PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PI251208S	3/8	-	1/4	
PI251216S 3/8 - 1/2 PI251612S 1/2 - 3/8	PI251210S	3/8	-	5/16	
PI251612S 1/2 - 3/8	PI251212S	3/8	-	3/8	
	PI251216S	3/8	-	1/2	
DI0516166 1/0 1/0	PI251612S	1/2	-	3/8	
PI2010105 1/2 - 1/2	PI251616S	1/2	-	1/2	

TUBE TO HOSE STEM Long Version

-6)	
PART NO.	STEM OD	HOSE ID	
PI251012SL PI251212SL	5/16 3/8	- 3/8 - 3/8	

TUBE TO HOSE ELBOW

PART NO.	STEM		HOSE
	OD		ID
PI290808S	1/4	-	1/4
PI290810S	1/4	-	5/16
PI291008S	5/16	-	1/4
PM290808S	5/16	-	5/16
PI291208S	3/8	-	1/4
PI291210S	3/8	-	5/16



ENLARGER

-	0	
PART NO.	TUBE OD	STEM OD
PI131012S PI131216S	3/8 1/2	- 5/16 - 3/8

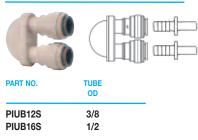
REDUCER

	0			
PART NO.	STEM OD		TUBE OD	
PI060605S	3/16	-	5/32	
PI061006S	5/16	-	3/16	
PI061008S	5/16	-	1/4	
PI061206S	3/8	-	3/16	
PI061208S	3/8	-	1/4	
PI061210S	3/8	-	5/16	
PI061610S	1/2	-	5/16	
PI061612S	1/2	-	3/8	

OFFSET CONNECTOR



U-BEND



The photograph shows 1/2" size. Existing 1/2 inch ID lines can be accommodated by using a standard Tube to Hose Connector.



DISPENSING VALVE ELBOW



DISPENSING VALVE STEM

	0	
PART NO.	STEM OD	
NC730-02	3/8	

PLUG PART NO. STEM OD PM0804S 5/32 PI0806S 3/16 PI0808S 1/4 PM0808S 5/16 PI0812S 3/8 PI0816S 1/2

END STOP

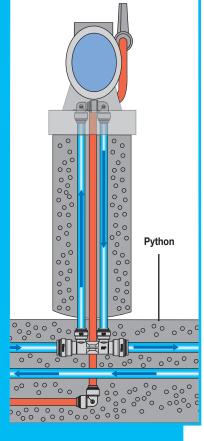




Intended for use on a 15mm Water Recirculation System.

A 4mm restriction between the two 15mm ports directs a proportion of recirculation water around a 3/8" looped spur.

Performance characteristics are dependent on a number of variables so it is recommended that suitability is assessed against the customer's own criteria.







White Acetal Fittings

CI inch size fittings are manufactured in white acetal. With a food grade EPDM 'O' ring, they have been developed for the water industry but are equally suitable for other potable liquids. They are also recommended for intermittent hot water applications.

Selected items are available with red or blue collets.

The CI Range is NOT suitable for compressed air and vacuum applications. For these situations we recommend the PI Range on pages 07 - 12.

Working Pressures and Temperatures

Water 10 BAR at 20°C 7 BAR at 65°C intermittent hot water

Other technical information is shown on page 34.

EQUAL STRAIGHT CONNECTOR

STRAIGHT ADAPTOR NPTF Thread

TUBE OD THREAD

NPTF

1/4 x 1/8

1/4 x 1/4

1/4 x 3/8

3/8 x 1/4



STEM ELBOW

5				
PART NO.	STEM OD		TUBE OD	
CI220808W	1/4	-	1/4	
CI221208W	3/8	-	1/4	
CI221212W	3/8	-	3/8	
CI220808WB	1/4	-	1/4	Blue Collet
CI221212WB	3/8	-	3/8	Blue Collet
CI220808WR	1/4	-	1/4	Red Collet
CI221212WR	3/8	-	3/8	Red Collet

RIGID ELBOW NPTF Thread PART NO. THREAD TUBE NPTF OD CI480821W 1/4 x 1/8 CI480822W 1/4 1/4 х CI480823W 1/4 x 3/8 CI481222W 3/8 1/4 х CI480821WB 1/4 x 1/8 Blue Collet

EQUAL ELBOW

PART NO.

CI010821W

CI010822W

CI010823W

CI011222W

		,•	
PART NO.	TUBE OD		
CI0308W	1/4		
CI0312W	3/8		
CI0308WB	1/4	Blue Collet	
CI0312WB	3/8	Blue Collet	
CI0312WR	3/8	Red Collet	

EQUAL TEE

6			
PART NO.	TUBE OD		
CI0208W	1/4		
CI0212W	3/8		
CI0208WB	1/4	Blue Collet	



STEM TEE PART NO. TUBE TUBE TUBE OD OD OD OD Cl580808W 1/4 1/4 1/4

BRANCH STEM TEE

16	_	,	
PART NO.	TUBE OD	TUBE OD	TUBE OD
CI530808W	1/4	- 1/4	- 1/4

BULKHEAD CONNECTOR





for pure water and potable liquids

Sure water & potable liquids

STEM AD	NPTF Thread		
-(0		
PART NO.	STEM OD	THREAD NPTF	
CI050821W CI050822W CI051222W CI051223W	1/4 3/8	x 1/8 x 1/4 x 1/4 x 3/8	

TAP ADAPTOR



REDUCER

	6	
PART NO.	STEM OD	TUBE OD
CI061208W	3/8 -	1/4

BARB CONNECTOR Superseal X Barb





John Guest Adaptability Standard Super Speedfit products can be





Polypropylene Fittings

The PP Range of inch size push-in fittings is produced in white polypropylene and fitted with EPDM seals.

Polypropylene has the advantage of being more chemically resistant than acetal.

Working Pressures and Temperatures

Water 10 Bar at 20°C 4 Bar at 60°C Minimum Temperature 1°C Other technical information is shown on page 34.

STRAIGHT ADAPTOR	NPTF Thread

PART NO.	TUBE OD		THREAD NPTF
PP010821W	1/4	-	1/8
PP010822W	1/4	-	1/4
PP010823W	1/4	-	3/8

PP010822W	1/4	-	1/4
PP010823W	1/4	-	3/8
PP011222W	3/8	-	1/4
PP011223W	3/8	-	3/8
PP011224W	3/8	-	1/2
PP011623W	1/2	-	3/8
PP011624W	1/2	-	1/2

|--|





EQUAL ELBOW

50	6	
PART NO.	TUBE OD	
PP0308W	1/4	
PPM0308W	5/16	
PP0312W	3/8	
PP0316W	1/2	
PP0308W-B	1/4	Blue Collet

EQUAL STRAIGHT CONNECTOR

PART NO.	TUBE OD		
PP0408W PPM0408W PP0412W PP0416W	1/4 5/16 3/8 1/2		

REDUCING TEE



PART NO.	TUBE OD END	TUBE OD END	TUBE OD BRANCH
PP30080812W	1/4	1/4	3/8
PP30120812W	3/8	1/4	3/8
PP30121208W	3/8	3/8	1/4
PP301612W	1/2	1/2	3/8

90		
PART NO.	TUBE OD	TUBE OD
PP211008W PP211208W PP211612W	5/16 - 3/8 - 1/2 -	1/4 1/4 3/8

REDUCING ELBOW

18

STEM ELBOW

5				
PART NO.	STEM OD		TUBE OD	
PP220808W	1/4		1/4	
PPM220808W	5/16	-	5/16	
PP221208W	3/8	-	1/4	
PP221212W	3/8	-	3/8	
PP221616W	1/2	-	1/2	
PP221212W-B	3/8	-	3/8	Blue Collet

REDUCING STRAIGHT
CONNECTOR

	(0		
PART NO.	TUBE OD		TUBE OD	
PP201208W PP201612W	3/8 1/2	-	1/4 3/8	

STEM TEE PART NO. TUBE OD TUBE OD TUBE OD END END BRANCH PP531212W 3/8 3/8 3/8

Inch size white polypropylene for pure water and a wide range of applications

	BOW			NPTF Thread
PART NO.	TUBE		THREAD	
PP480821W	1/4		4/0	
PP480821W	1/4	Х	1/8	
PP480822W	1/4	Х	1/4	
PP480823W	1/4	х	3/8	
PP481222W	3/8	x	1/4	
PP481223W	3/8	x	3/8	

BULKHEAD CONNECTOR

66		
PART NO.	TUBE	
	OD	
PP1208W	1/4	
PP1212W	3/8	
PP1216W	1/2	

REDUCING BULKHEAD CONNECTOR

a	0		
PART NO.	TUBE OD	TUBE OD	
PP121208W	3/8	- 1/4	

FEMALE ADAPTOR NPTF Thread

0)		
PART NO.	TUBE		THREAD
	OD		NPTF
PP450821W	1/4	х	1/8
PP450822W	1/4	х	1/4
PP451222W	3/8	х	1/4
PP451223W	3/8	X	3/8

	PTOR		UNS Thread
0			
PART NO.	TUBE OD	THREAD UNS	
PP3208U7W PP3212U7W		 7/16 - 24 7/16 - 24	

STEM ADAPTOR NPTF Thread

PART NO.	STEM OD		THREAD NPTF
PP050821W	1/4	х	1/8
PP050822W	1/4	х	1/4
PP051222W	3/8	х	1/4
PP051223W	3/8	х	3/8
PP051623W	1/2	х	3/8
PP051624W	1/2	х	1/2

	REDUCER					
		6				
	PART NO.	STEM OD		TUBE OD		
	PP061208W	3/8	-	1/4		
-	PP061210W	3/8	-	5/16		
e	PP061612W	1/2	-	3/8		
	PP062008W	5/8	-	1/4		
	PP062012W	5/8	-	3/8		
	PP062016W	5/8	-	1/2		

DIVIDER		
PART NO.	TUBE OD	
PP2312W	3/8	

UNEQUAL DIVIDER

PP241208W 1/4 3/8

THREE WAY DIVIDER

-	2	
PART NO.	TUBE OD TUBE OD INLET OUTLET	
PP491208	W* 3/8 - 1/4	

PLUG

6-		
PART NO.	STEM OD	
PP0808W	1/4	
PPM0808W	5/16	
PP0812W	3/8	
PP0816W	1/2	

TUBE TO HOSE STEM

PART NO.	STEM OD		HOSE ID
PP251212W	3/8	-	3/8
PP251216W	3/8	-	1/2
PP251612W	1/2	-	3/8
PP251616W	1/2	-	1/2

Superseal Fittings

For use with Stainless Steel

Superseal is a special fitting designed to provide extra grip on hard steel, stainless steel and other polished metal tubing.

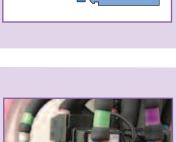
The Superseal design features a collet with integrally moulded stainless steel teeth similar to the standard Super Speedfit design, but incorporating an additional hand-operated nut and wedge shaped plastic washer to apply extra pressure to the collet and the double 'O' ring seals. This ensures that the collet teeth bite thoroughly into the tube to provide grip while at the same time, compressing the 'O' rings to further enhance sealing.

Like other John Guest fittings Superseal is suitable for potable liquids and other food quality applications.

Technical information shown on page 34.









for use with stainless steel tube

ELBOW	Superseal X Superseal	BARB C	ONNECTO	R
PART NO. SUPERSEAL SUP	FRSEAL	PART NO.	SUPERSEAL OD	т
OD OD	OD	SI270808S	1/4 -	1
SM400808S 5/16 -	5/16	SI271008S	5/16 -	1
	5/16 3/8	SI271208S	3/8 -	1
ELBOW	Superseal X Speedfit			

-			
PART NO.	SUPERSEAL		SPEEDFIT
	OD		OD
SI030812S	1/4	-	3/8
SM030808S	5/16	-	5/16
SI031012S	5/16	-	3/8
SI031210S	3/8	-	5/16
SI031212S	3/8	_	3/8



5/16 -1/4

3/8 -1/4

TUBE

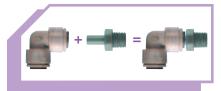
ID

1/4

Superseal X Speedfit



Standard Super Speedfit products can be coupled together to form integral new fittings.





FLOW	BEND	CONNECTOR	Speedfit

Superseal X



PART NO.	SUPERSEAL OD	SPEEDFIT OD
SM420808S	5/16 ·	- 5/16
SI421012S	5/16 ·	- 3/8
SI421210S	3/8 ·	- 5/16
SI421212S	3/8	- 3/8

SUPERSEAL SPANNER



PART NO.

SPAN1

Brass Fittings for beverage dispense applications

Designed for use in coffee brewing equipment, dispensing and vending machine applications. The fittings are manufactured in brass with a polypropylene collet and a food grade EPDM 'O' ring.

Working Pressures and Temperatures

Water	10 Bar at 20°C
	4 Barat 60°C
Minimum Temperature	1°C

THDEAD

Other technical information is shown on page 34.



BRASS FEMALE CONNECTOR FFL Thread



PART NO.	OD		FFL	
MI4508F4S	1/4	х	1/4	
MI4512F4S	3/8	х	1/4	
MI4512F6S	3/8	х	3/8	
1/4 (FFL) corre	esponds	to	a 7/16	UNF

3/8 (FFL) corresponds to a 5/8 UNF

BRASS FEMALE CONNECTOR



NO. TUBE THREAD OD GH

NC2098 1/4 x 3/4 A stem elbow shown on page 08 will provide

a neat 90° installation. The tube can be orientated in any direction.

BRASS POLYPROPYLENE FEMALE CONNECTOR BSPP Thread

0	
PART NO.	TUBE THREAD OD BSPP
NC2145 NC2249	1/4 x 3/4 3/8 x 3/4

Metric to Imperial Adaptors

STRAIGHT CONNECTOR

1		1	
PART NO.	TUBE	TUBE	
NC462	15mm		

STRAIGHT CONNECTOR





PART NO.	TUBE OD	TUBE OD
NC2511	15mm -	3/8"

STEM TO TUBE ADAPTOR



STEM TO HOSE CONNECTOR



ADAPTOR TEE

PART NO.	TUBE OD	TUBE OD
	END	BRANCH
NC869	15mm	3/8"

STEM TO STEM ADAPTOR



TUBE TO HOSE CONNECTOR

PART NO.	TUBE OD	HOSE ID	
NC448	15mm	- 1/2"	

CM Fittings for drinks and other potable liquids

CM range of metric size fittings are manufactured in acetal. With a food grade EPDM 'O' ring, they have been developed for the water industry but are equally suitable for other potable liquids. They are also recommended for intermittent hot water applications.

The CM Range is NOT suitable for compressed air and vacuum applications. For these situations we recommend the PI Range on pages 7 - 12 and the PM Range on Pages 21 - 24.

Working Pressures and Temperatures

Water 10 BAR at 20°C 7 BAR at 65°C intermittent hot water

Other technical information is shown on page 34.



Black Acetal Fittings

The PM Range of metric size fittings is manufactured in black acetal copolymer with food grade nitrile 'O' rings. Being especially produced for foodstuff and potable liquids, they are equally suitable for air and inert gases and can therefore be used on N²/CO² (installed in accordance with the Brewers and Licensed Retailers Association code of practice) mixed gas dispense lines and pneumatic applications and vacuum.

BSP Thread

Technical Information shown on page 34.

STRAIGHT ADAPTOR				
E				
PART NO.	TUBE OD		THREAD BSP	
PM010411E	4	x	1/8	
PM010412E	4	х	1/4	
PM010511E	5	х	1/8	
PM010512E	5	х	1/4	
PM010611E	6	х	1/8	
PM010612E	6	х	1/4	
PM010811E	8	х	1/8	
PM010812E	8	х	1/4	
PM010813E	8	х	3/8	
PM011012E	10	х	1/4	
PM011013E	10	х	3/8	
PM011014E	10	X	1/2	
PM011213E	12	X	3/8	
PM011214E	12	X	1/2	
PM011513E**	15	X	3/8	
PM011514E	15	X	1/2	
PM011516E *	15	х	3/4	
PM011814E	18	х	1/2	
PM012216E	22	X	3/4	

* No thread seal ** New

STRAIGHT ADAPTOR BSPT Thread

E			
PART NO.		JBE DD	THREAD BSPT
PM010401E	4	х	1/8
PM010402E	4	х	1/4
PM010501E	5	х	1/8
PM010502E	5	х	1/4
PM010601E	6	х	1/8
PM010602E	6	х	1/4
PM010801E	8	х	1/8
PM010802E	8	х	1/4
PM010803E	8	х	3/8
PM011002E	10	х	1/4
PM011003E	10	х	3/8
PM011004E	10	х	1/2
PM011203E	12	х	3/8
PM011204E	12	x	1/2
PART NO.		JBE DD	THREAD NPTF
PM010622E	6	x	1/4

EQUAL STRAIGHT CONNECTOR

	0	
PART NO.	TUBE OD	
PM0404E	4	
PM0405E	5	
PM0406E	6	
PM0408E	8	
PM0410E	10	
PM0412E	12	
PM0415E	15	
PM0418E	18	
PM0422E	22	

REDUCING ELBOW CONNECTOR

5				
PART NO.	TUBE		TUBE	
	OD		OD	
PM210604E	6	-	4	
PM210804E	8	-	4	
PM210806E	8	-	6	
PM211004E	10	-	4	
PM211006E	10	-	6	
PM211008E	10	-	8	
PM211208E	12	-	8	
PM211210E	12	-	10	

REDUCING STRAIGHT CONNECTOR

	Ø	
PART NO.	TUBE OD	TUBE OD
PM200604E	6 -	4
PM200804E	8 -	4
PM200806E	8 -	6
PM201004E	10 -	4
PM201006E	10 -	6
PM201008E	10 -	8
PM201208E	12 -	8
PM201210E	12 -	10

STEM ELBOW



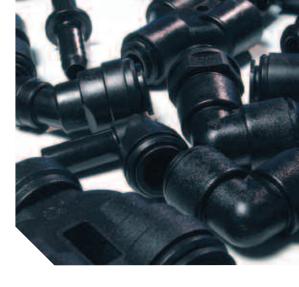
PART NO.	TUBE OD	STEM OD
PM220404E	4 -	4
PM220505E	5 -	- 5
PM220606E	6 -	- 6
PM220808E	8 -	- 8
PM221010E	10 ·	· 10
PM221212E	12 ·	- 12
PM221515E	15 ·	- 15
PM221818E	18 ·	- 18
PM222222E	22 -	- 22

EQUAL ELBOW

50	
PART NO.	TUBE
	OD
PM0304E	4
PM0305E	5
PM0306E	6
PM0308E	8
PM0310E	10
PM0312E	12
PM0315E	15
PM0318E	18
PM0322E	22

RIGID ELBOW

PART NO.	TUBE OD	THREAD NPTF	
PM480621E	6	x 1/8	
PM480622E	6 2	x 1/4	
PM480623E	6	x 3/8	



for liquids & inert gases

51			
PART NO.	STEM		THREAD
	OD		BSP
PM090411E	4	х	1/8
PM090412E	4	х	1/4
PM090511E	5	х	1/8
PM090512E	5	х	1/4
PM090611E	6	х	1/8
PM090612E	6	х	1/4
PM090811E	8	х	1/8
PM090812E	8	х	1/4
PM090813E	8	х	3/8
PM091012E	10	x	1/4
PM091013E	10	x	3/8
PM091014E	10	х	1/2
PM091213E	12	х	3/8
PM091214E	12	х	1/2

SWIVEL ELBOW

SWIVEL ELBOW	
Contraction of the second	

PART NO.	TUBE OD	THREAD BSPT
PM090401E	4	x 1/8
PM090402E	4	x 1/4
PM090501E	5	x 1/8
PM090502E	5	x 1/4
PM090601E	6	x 1/8
PM090602E	6	x 1/4
PM090801E	8 2	x 1/8
PM090802E	8 2	x 1/4
PM090803E	8 2	x 3/8
PM091002E	10	x 1/4
PM091003E	10	x 3/8
PM091004E	10	x 1/2
PM091203E	12	x 3/8
PM091204E	12	x 1/2

EQUAL TEE

PART NO.	TUBE		
	OD		
PM0204E	4		
PM0205E	5		
PM0206E	6		
PM0208E	8		
PM0210E	10		
PM0212E	12		
PM0215E	15		
PM0218E	18		
PM0222E	22		

REDUCING TEE

BSP Thread

BSPT Thread

PART NO.	TUBE OD ENDS	TUBE OD BRANCH
PM3006AE PM3018AE PM3022AE	4 - 18 - 22 -	· 6 · 15 · 15

SWIVEL TEE Centre Leg BSP Thread

-			
PART NO.	TUBE OD		THREAD BSP
PM100411E	4	x	1/8
PM100412E	4	х	1/4
PM100511E	5	х	1/8
PM100512E	5	х	1/4
PM100611E	6	х	1/8
PM100612E	6	х	1/4
PM100811E	8	х	1/8
PM100812E	8	х	1/4
PM100813E	8	х	3/8
PM101012E	10	х	1/4
PM101013E	10	х	3/8
PM101014E	10	х	1/2
PM101213E	12	х	3/8
PM101214E	12	х	1/2

SWIVEL TEE Centre Leg BSPT Thread



PM100401E	4	x	1/8
PM100402E	4	x	1/4
PM100501E	5	x	1/8
PM100502E	5	x	1/4
PM100601E	6	x	1/8
PM100602E	6	x	1/4
PM100801E	8	x	1/8
PM100802E	8	x	1/4
PM100803E	8	x	3/8
PM101002E	10	x	1/4
PM101003E	10	x	3/8
PM101004E	10	x	1/2
PM101203E	12	x	3/8
PM101204E	12	x	1/2

SWIVEL MALE RUN TEE

BSP Thread

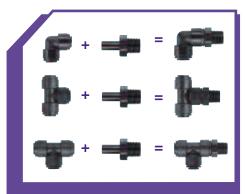
PART NO.	TUBE OD		THREAD BSP	
PM110411E	4	x	1/8	
PM110412E	4	х	1/4	
PM110511E	5	х	1/8	
PM110512E	5	х	1/4	
PM110611E	6	х	1/8	
PM110612E	6	х	1/4	
PM110811E	8	х	1/8	
PM110812E	8	х	1/4	
PM110813E	8	х	3/8	
PM111012E	10	х	1/4	
PM111013E	10	х	3/8	
PM111014E	10	х	1/2	
PM111213E	12	х	3/8	
PM111214E	12	х	1/2	

SWIVEL MALE RUN TEE BSPT Thread

PART NO.	TUBE		THREAD
	OD		BSPT
PM110401E	4	х	1/8
PM110402E	4	х	1/4
PM110501E	5	х	1/8
PM110502E	5	Х	1/4
PM110601E	6	Х	1/8
PM110602E	6	Х	1/4
PM110801E	8	Х	1/8
PM110802E	8	Х	1/4
PM110803E	8	Х	3/8
PM111002E	10	Х	1/4
PM111003E	10	Х	3/8
PM111004E	10	Х	1/2
PM111203E	12	Х	3/8
PM111204E	12	Х	1/2

John Guest Adaptability

Standard **Super Speedfit** products can be coupled together to form integral new fittings.





BULKHEAD CONNECTOR

PART NO.	TUBE OD			
PM1204E	4			
PM1205E	5			
PM1206E	6			
PM1208E	8			
PM1210E	10			

12

For 1/4" x 6mm size see page 11

PM1212E

STEM ADAPTOR



PART NO.	STEM OD		THREAD BSP
PM050411E	4	x	1/8
PM050412E	4	x	1/4
PM050511E	5	х	1/8
PM050512E	5	х	1/4
PM050611E	6	х	1/8
PM050612E	6	х	1/4
PM050811E	8	х	1/8
PM050812E	8	х	1/4
PM050813E	8	х	3/8
PM051012E	10	х	1/4
PM051013E	10	х	3/8
PM051014E	10	x	1/2
PM051213E	12	х	3/8
PM051214E	12	х	1/2
PM051513E	15	х	3/8
PM051514E	15	x	1/2
PM051814E	18	x	1/2
PM052214E	22	x	1/2
PM052216E	22	x	3/4

TWO-WAY DIVIDER

BSP Thread



TWO-WAY DIVIDER



For the new BDA Approved Twin Recirc. Python for coolant water feed and return

REDUCER

100

PART NO.	STEM OD	TUBE OD
PM060504E	5 -	4
PM060604E	6 -	4
PM060605E	6 -	5
PM060804E	8 -	4
PM060805E	8 -	5
PM060806E	8 -	6
PM061006E	10 -	6
PM061008E	10 -	8
PM061208E	12 -	8
PM061210E	12 -	10
PM061510E	15 -	10
PM061512E	15 -	12
PM061815E	18 -	15
PM062215E	22 -	15
PM062218E	22 -	18

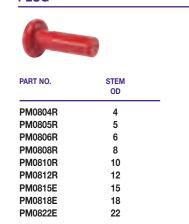
PART NO. STEM THREAD BSPT PM050401E 4 x 1/8 PM050402E 4 x 1/4 PM050501E 5 x 1/8 PM050502E 5 x 1/4

PM050501E	5	х	1/8
PM050502E	5	х	1/4
PM050601E	6	х	1/8
PM050602E	6	х	1/4
PM050801E	8	х	1/8
PM050802E	8	х	1/4
PM050803E	8	х	3/8
PM051002E	10	х	1/4
PM051003E	10	х	3/8
PM051004E	10	х	1/2
PM051203E	12	х	3/8
PM051204E	12	х	1/2

STEM ADAPTOR

PLUG

BSPT Thread



4mm - 12mm sizes in red 15mm - 22mm sizes in black 8mm size also available in black Part No. PM0808E

ENLARGER

PART NO.	TUBE OD	STEM OD	
PM130405E	5 x	4	-

TUBE TO HOSE STEM

PART NO.	STEM		HOSE
	OD		ID
PM250604E	6	-	4
PM250806E	8	-	6
PM251008E	10	-	8

OFFSET CONNECTOR



END STOP

C)	
PART NO.	TUBE OD	
PM4612E	12	
PM4615E	15	
PM4622E	22	

U-BEND		
G		
PART NO.	TUBE OD	
PMUB15E	15	

FEMALE ADAPTOR

	0		
PART NO.	TUBE OD		THREAD
PM450411E*	4	x	1/8 BSP
PM450611E	6	х	1/8 BSP
PM450612E*	6	х	1/4 BSP
PM450812E	8	х	1/4 BSP
PM450813E	8	х	3/8 BSP
PM451015FE*	10	х	5/8 BSP
PM451215FE	12	x	5/8 BSP

* With thread seal.

Other sizes no seal.



White Polypropylene Fittings

The PPM Range of metric size push-fit fittings are produced in white polypropylene and fitted with EPDM seals.

Polypropylene has the advantage of being more chemically resistant than acetal.

Working Pressures and Temperatures

Water 10 BAR at 20°C 4 BAR at 60°C intermittent hot water Minimum Temperature 1°C

Other technical information is shown on page 34.



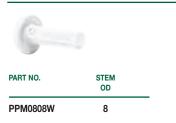
EQUAL STRAIGHT CONNECTOR

	(0	
PART NO.	TUBE OD	
PPM0408W PPM0412W	8 12	

STEM ELBOW



PLUG



REDUCING STRAIGHT CONNECTOR

	0		
PART NO.	TUBE OD	TUBE OD	
PPM201512W	15	- 12	

B		
PART NO.	TUBE OD	
PPM0208W PPM0212W	8 12	

EQUAL TEE

DIVIDER

+ -0		
PART NO.	TUBE OD	
PPM2312W	12	

Equal Elbow

PART NO.	TUBE OD	
PPM0308W PPM0312W	8 12	





Acetal Angle Stop Valves

John Guest Angle Stop Valves are manufactured in Acetal with EPDM 'O' rings. They incorporate a single check valve and a 1/4 turn chromium plated ball valve.

The valves are for use with potable water. For use with other potable liquids please refer to our Customer Services Department for guidance.

The valves are not to be used with compressed air, explosive gases, petroleum spirit and other fuels or for heating systems.

Working Pressures and Temperatures

Water

12 Bar at 20°C 6 Bar at 65°C



ACETAL ANGLE STOP VALVE •







00	DITATION		501	501	DIFINO
15mm	1/4"	ASV7	3/8	3/8	3/8
5mm	3/8"	ASV8	1/2	1/2	3/8
		ASV9	3/8	3/8	1/4
		ASV10	1/2	1/2	1/4

Acetal Elbow Stop Valves

The Elbow Stop Valve has an Acetal body and is fitted with EPDM seals and a brass nut.

Suitable for applications in the Drinks Dispense and Pure Water Industries.

The Valves should not be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems.

Working Pressures and Temperatures

Water	10	Bar at	23°C
	7	Bar at	65°C

ACETAL ELBOW STOP VALVE •



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:

- 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 '•'



Polypropylene Shut-Off Valve

The PP Range of shut-off valves are produced in polypropylene and fitted with EPDM seals. Polypropylene has the advantage of being more chemically resistant than acetal.

The valves are for use with potable water. For use with other potable liquids please refer to our Customer Services Department for guidance.

The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels or for heating systems.

Working Pressures and Temperatures

Water

10 Bar at 20°C 4 Bar at 60°C 1°C Minimum Temperature

For advice on the use of 1/4 turn valves see Technical Specification on page 34.

White polypropylene for Potable Water

SPEEDFIT TO SPEEDFIT •

PART NO.	TUBE

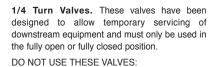
	OD
PPSV040808W	1/4
PPSV041212W	3/8
PPMSV040606W	6mm
PPMSV040808W	8mm
PPMSV041010W	10mm
PPMSV041212W	12mm

8mm also available with mounting clip supplied unassembled PPMSV04KIT



PART NO TURF THREAD OD NPTF PPSV500822W 1/41/4 PPSV501222W 3/8 1/4

SPEEDFIT TO FEMALE •



- · 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".

NPTF

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

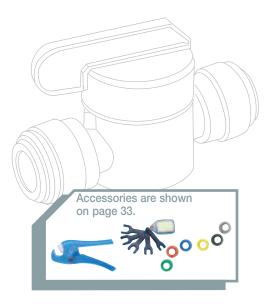




PART NO.

SVMC-06	For 6mm and 1/4"
SVMC-10	For 10mm and 3/8"

The mounting clip is designed to give a very firm grip. A twisting action is needed to remove the valve. The clip can be used with either shut off valve. When used with the short handle version, valves can be banked together.



Acetal Shut-Off Valve

John Guest acetal shut-off valves have a brand new full bore mechanism and are especially designed for the Brewing and Soft Drinks Industries and for potable water.

They are also suitable for air and inert gases such as N²/CO².

The range includes valves with short and long handles to operate a 1/4 turn on off action.

Some valves are available with or without mounting clip. Others have integral mounting bosses.

Working Temperatures & Pressures

Air	-20°C	10 bar
Air / Potable Liquids	+1°C +23°C	10 bar 10 bar
	+65°C	7 bar

For cleaning and sanitising and for advice on the use of 1/4 turn valves see Technical Specification on page 34.



Can also be used with N²/CO² to a maximum temperature of 50° C. When being used with N²/CO², the valve should be installed in accordance with The British Beer and Pub Association Code of Practice.

Grey acetal for liquids & inert gases









SHUT OFF VALVE • LONG HANDLE WITH MOUNTING CLIP



OD PISV04KIT 3/8

supplied unassembled

ANGLE STOP VALVE •



The John Guest 3/8" Angle Stop Valve features double 'O' rings in each of the Speedfit ports and has been developed for a wide range of applications including foodstuffs, potable liquids and air.

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 '•'

Check Valves & Service Valves Single Check Valves

Produced at the request of leading companies in the Drinks Dispense Industry, the Super Speedfit acetal Single Check Valve ensures protection against reversal of flow.

The low headloss design and fast installation time makes the valve the ideal selection. The valve is designed for use with liquids, it is not suitable for air and vacuum applications.

Working Pressures and Temperatures

10 Bar at 20°C 7 Bar at 65°C intermittent hot water Minimum Temperature 1°C Typical 'crack open' pressure 0.02 Bar

Technical information other than working pressures and temperatures shown on page 34.



SINGLE CHECK VALVE



	OD
1/4SCV	1/4"
5/16SCV	5/16"
3/8SCV	3/8"

TUBE

For use with liquids only.

SINGLE CHECK VALVE



For use with liquids only.

SINGLE CHECK VALVE



5psi Crack Open Pressure. For use with liquids only.

- Valves with low fixed cracking pressure (i.e 10cm water column), that have not been activated for some time may take several seconds to re-seal.
- It is the responsibility of the end user to verify that the product is suitable for his specific application.
- It is also recommended that the non-return valve is regularly checked and maintained.





Double Check Valve

Double Check Valves ensure the prevention of contamination arising from back syphonage, back flow and cross connection.

A spring loaded internal check valve is sited either side of the test cock and an arrow identifies the direction of flow. The low headloss design and fast installation time makes this unit the ideal selection. The valve can be mounted in any position.

The valve can also be used for domestic hot and cold water supplies.

Working Pressures and Temperatures

10 Bar at 20°C 7 Bar at 65°C intermittent hot water

Technical information other than working pressures and temperatures shown on page 34.

DOUBLE CHECK VALVE



DOUBLE CHECK SERVICE VALVE



For use with liquids only.

Service Valves

Speedfit Service Valves are ideally suited to provide a temporary shut-off facility in a drinks dispense situation.

The valve consists of a ball mechanism operated by means of a screwdriver slot

Push in connections make for a fast installation time, especially in confined spaces.

The valves can also be used for domestic hot and cold water supplies.

Working Pressures and Temperatures

10 Bar at 20°C

7 Bar at 65°C intermittent hot water

Technical information other than working pressures and temperatures shown on page 34.

PART NO.	TUBE OD	
15SV	15mm	

For use with liquids only.

SERVICE VALVE •

	0	
PART NO.	TUBE OD	
1/2ISV	1/2"	

For use with liquids only.

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 '•'

LLDPE Tubing

The John Guest PE Range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications.

Our tubing provides the benefits of a wide range of temperature and pressure suitability, broad chemical compatibility and is made from non contaminating materials. Common applications are in water purification, water conditioners, ice makers and misting systems. LLDPE is more robust than traditional low or medium density polyethylene and is recommended for use with cold and intermittent hot water. Our tubing is made from FDA compliant materials and is NSF International certified. John Guest LLDPE Tubing provides excellent resistance to environmental stress cracking as measured by ASTM D-1693 (10% IGEPAL).

John Guest Polyethylene tubing is designed for use with John Guest Super Speedfit push-fit fittings, John Guest Shut-Off Valves and virtually all standard tubing connectors.

Sizes Available

PART NO.	OD	ID	COIL LENGTH	MINI BEND RADII
PE-08-BI-0500F-N	1/4"(0.250")	0.170"	500 FT	1.00"
PE-08-BI-1000F-N	1/4"(0.250")	0.170"	1000FT	1.00"
PE-10-CI-0500F-N	5/16"(0.312")	0.187"	500 FT	1.13"
PE-12-EI-0500F-N	3/8"(0.375")	0.250"	500 FT	1.25"
PE-16-GI-0250F-N	1/2"(0.500")	0.375"	250 FT	2.50"
PE-04025-0100M-N	4mm	2.5mm	100m	25mm
PE-0604-0100M-N	6mm	4mm	100m	25mm
PE-0806-0100M-N	8mm	6mm	100m	30mm
PE-1007-100M-N	10mm	7mm	100m	32mm
PE-1209-100M-N	12mm	9mm	100m	63mm
PE-15115-0100M	15mm	11.5mm	100m	100mm

N denotes natural colour. To request other colours please refer to table below. Popular items are now generally in stock and are available in minimum quantities of 2 coils. Other items may be subject to longer lead times and are available in minimum quantities of 50 coils.

Standard Colours Available



15mm size only available in Blue, Red, Green and Violet. 8mm size only available in Natural, Blue, Black, Red and White. For other colours we suggest you use 5/16". Black tubing is UV stabilized.

10 9 Col Strong

Tube Tolerances

1/4" to 1/2"	+0.001/-0.004"
4mm	+0.05/-0.07mm
6mm to 12mm	+0.05/-0.10mm
15mm	+0.10/-0.10mm

Other special colours available on request:-

Orange	(O)
Green	(G)
Violet	(V)
Yellow	(Y)

Sizes ours yet flexible



NSF 51

NSF 61

Working Temperatures and Pressures - LLDPE

TUBE OD		TUBE ID	
1/4" 5/16" 3/8" 4mm 6mm 10mm	x x x x x x x	0.170" 0.187" 0.25" 2.5mm 4mm 7mm	230 psi @70°F 16 bar @20°C 120 psi @150°F 8 bar @ 65°C
1/2" 8mm 12mm 15mm	x x x x	0.375" 6mm 9mm 11.5mm	150 psi @70°F 10 bar @20°C 90 psi @150°F 6 bar @65°C

1 Bar = 14.5 psi (approx.)

Maximum Working Temperature 150°F at pressures shown in chart above.

For temperatures above 150°F customers should refer to our Technical Help Desk.

The above maximum temperatures and pressures do not take chlorine content into account. This could reduce service life.

Please note maximum pressure rating for a 'system' depends on the lowest rated component, eg. most John Guest fittings have a different rating from the tube ratings shown above.

Burst Pressures are approximately 3 times the maximum working pressure.

Pneumatics Applications

John Guest LLDPE tube is suitable for pneumatic applications providing pressure is maximum 10 bar @ 20°C (150psi @ 70°F). At elevated temperatures(50°C+) mineral oil will degrade LLDPE tube and, therefore, LLDPE tube used in pneumatic circuits should be periodically checked and replaced if necessary.

Tube Inserts

If the tube is used in a warm water system a tube insert is necessary.

Exposure to Ultraviolet Light

Only black or blue tube should be installed in areas exposed to any light if biofilm growth is considered an issue. In this case other colours must be protected from exposure to light. Black tube is also UV stabilised and can be installed where exposed to direct sunlight (UV).

Chemical Resistance

For use of LLDPE with chemicals or potentially aggressive liquids, please refer to our Technical Service Department.

NOTE: When using cleaning agents or other potentially aggressive liquids, please ensure compatibility with tubing and fittings. LLDPE is not recommended for mineral oils, gases and fuels or high pressure compressed air / pneumatic systems.

Potable Water Applications

John Guest LLDPE tubing is suitable for potable cold water applications with a maximum chlorine content of 4 parts per million (4 ppm). Heating water above 70°F (20°C) and or pressures above the maximum will significantly reduce service life. Direct exposure to sunlight will also significantly reduce its useful service. As part of good practice tubing should be inspected regurlarly. If there is any evidence of damage, hardening or cracking it should be replaced immediately.

Accessories

COLLET COVERS



The slip-on Collet Cover shown in the illustration prevents accidental removal or tampering with tubing. Tubing can be inserted with the Collet Cover already attached to the fittings or the cover can slide into position afterwards. The cover is easily removed when required and comes in a variety of colours for colour coding.

Colours available - Suffix indicates colours E = Black Y = Yellow B = Blue

R = Red S = Grey G = Green

INCH SIZE

PART NU.	OD	
PM1904S	5/32	
PI1906S	3/16	
PI1908S	1/4	
PM1908S	5/16	
PI1912S	3/8	
PI1916S	1/2	

Please indicate by suffix, colour required or grey will be supplied.

METRIC SIZE

PART NO.	TUBE OD	
PM1904E	4	-
PM1905E	5	
PM1906E	6	
PM1908E	8	
PM1910E	10	
PM1912E	12	
PM1915E	15	
PM1918E	18	
PM1922E	22	

15mm to 22mm sizes available in black as standard, white red or blue

Please indicate by suffix, colour required or black will be supplied.

FLOW BEND CLIP



Designed to support tube and eliminate kinking.

TUBE INSERT

PART NO.	TUBE OD	TUBE ID
TSI250S	3/8	1/4
TSI312S TSI375S	7/16 1/2	5/16 3/8
PART NO.	TUBE OD	TUBE ID
TSM1209S	12mm ·	- 9mm

TUBE INSERT

PA

	TUBE	
And in case of the local division of the loc		
In case of the local division of		
_		

	OD	ID	
TSM10N	10	7	
TSM1209S	12	9	
TSM15N	15	11.5	

TUBE

PLUG PART NO. STEM OD PM0804R 4 PM0805R 5 PM0806R 6 PM0808R 8 PM0810R 10 PM0812R 12 PM0815E 15 PM0818E 18 PM0822E 22

4mm - 12mm sizes in red.

15mm - 22mm sizes in black.

8mm size also available in black Part No. PM0808E.

COLLET LOCKING TOOL



TUBE CUTTER

X			
PART NO.	PART NO.		
TS NIP BLADES			
Suitable for up to 12mm tube.			

PIPE CUTTER



BLADE-JG-TS Blade only Suitable for up to 22mm tube.

LOCKING CLIP

PART NO.	TUBE OD	
INCH SIZE		
PIC1808R	1/4	
PMC1808R	5/16	
PIC1812R	3/8	
PIC1816R	1/2	
METRIC SIZE		
PMC1815R	15mm	



Secures the collet in its position to prevent an accidental disconnection of the tube.

Technical Specification

Working Pressure and Temperature Range

Super Speedfit fittings are suitable for the following pressures and temperatures.

Temp.	Pressure		
	5/32" - 5/16" 4mm - 8mm	3/8" -1/2" 10mm - 22mm	
Air			
- 20°C	16 Bar	10 Bar	
Potable Liquids and Air			
+1°C	16 Bar	10 Bar	
+20°C	16 Bar	10 Bar	
+65°C	10 Bar	7 Bar	

Also suitable for vacuum

Depending on the tube used, under certain conditions fittings may be used at higher pressures and temperatures. Please refer to our Customer Services Department for guidance. Note 1 Bar = 14.5 PSIG.

Tube Types

Plastic Tube - Polyethylene, nylon and polyurethane conforming to the tolerances shown below. For soft tubing or thin wall tube we recommend the use of tube inserts.

Braided Tube - Use of Tube to Hose Stems listed on pages 5 and 12 is essential when using tube. Use of clamps to retain braided tube on barbs is recommended.

Metal Tube (soft) - Brass, copper or mild steel conforming to the tolerances below.

Metal Tube (hard) - We do not recommend Super Speedfit fittings for hard metal or chromium plated tubes.

For stainless steel and other polished metal tubes we recommend the use of Superseal fittings. These are shown on page 9 of this brochure. It is essential that outside diameters be free from score marks and that the tube be deburred before inserting the fitting.

Tube Tolerances

Super Speedfit fittings are offered for tubes with outside diameters to the following tolerances.

Size (inches)	5/32 - 3/16	1/4 - 1/2
Tolerance (inches)	+0.001 / -0.003	+0.001 / -0.004
Size (mm)	4mm - 5mm	6mm - 22mm
Tolerance (mm)	+0.05 / -0.07	+0.05 / -0.10

Installation and System Testing

Fittings and tube should be kept clean and undamaged before use. All tube and fittings installations must be pressure tested after installation to ensure system integrity before handing over to the final user. See also "How to make a connection".

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, or as a tap or "faucet".

Chemicals

For use with chemicals or other potentially aggressive liquids, please refer to our Customer Services Department. In general, use only water or oil based paint. DO NOT ALLOW CONTACT WITH Cellulose based paint, paint thinners or strippers, solder flux or aggressive cleaners (see Cleaners and Sanitising). Keep away from ozone generators such as electric motors, mercury vapour lamps and high voltage electrical equipment.

Super Speedfit fittings are not recommended for use with explosive gases, petroleum spirits, and other fuels or for central heating systems.

Collet Covers

Are available as additional security against removal of the tube or to provide a simple means of colour coding. The cover is offered in a range of six colours. Please see page 26 of this brochure.

Food Quality

All the fittings in the brochure are produced in Food and Drug Administration (FDA) approved materials and are therefore recommended for food quality applications.

Maximum Torque Values for Plastic Threads BSP, BSPT & NPT.

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 John Guest fittings in mating threads conforming to the relevant BS or International thread standards are shown below.

	Threads		
	1/8 - 1/4 3/8 - 1/2 3/4		
Max. Torque	1.5Nm	3.0Nm	4.0Nm

John Guest recommend OEM customers to consider replacing threaded ports with the more modern Cartridge Systems.

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

Maintenance and Replacement Intervals

John Guest products generally require little maintenance but as a minimum we recommend routine visual inspection. Frequency of visual inspection will depend on severity of application and risk of failure. If after visual inspection John Guest products appear damaged, cracked, charred, discoloured, heat distorted or corroded they should be replaced. Any product that is or appears to be leaking should be replaced.

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

Cleaners and Sanitising of Fittings

The external surfaces of John Guest products must not come into contact with oxidising or acidic cleaners and sanitising agents, for example (but not limited to) those below pH 4, high in sodium hypochlorite level (bleach) or containing hydrogen peroxide. Our plastic material suppliers recommend ECOLAB Oasis 133 as a suitable cleaner for the external surfaces of products manufactured by John Guest.

Several different methods exist for sanitising the internal surfaces of fluid systems, including sodium hypochlorite, hydrogen peroxide, chlorine dioxide or ozone. It is entirely the responsibility of the end user to determine if the chosen method is suitable for use with John Guest products over the planned working life of the system. However, to avoid unnecessary early failure, John Guest requires that 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. Disinfection solutions must only come into contact with the internal (fluid carrying) surfaces of the system. If any other surfaces of a fitting come into contact with disinfection solutions the whole fitting must be replaced immediately. Polypropylene fittings offer greater resistance to aggressive chemicals than Acetal fittings but do not have the same mechanical properties. John Guest polypropylene fittings are generally designated by the part number prefix PP or PPM.

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 damaged or suffered an impact, they should be replaced immediately. John Guest warranty does not cover loss caused by any form of damage.

Warranty

Whilst we give a warranty against defects in manufacture or materials, it is the responsibility of the specifier to ensure that fittings and related products are suitable for their application. The installation must be carried out correctly in accordance with our recommendations, complying with recognised codes of practice and relevant national standards, and be properly maintained. Please refer to our terms and conditions of sale.

John Guest International Limited



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