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John Guest®

Fluid System Products

Fittings, Valves, Tubing

Standard Products Catalog



JG John Guest USA, Inc.
September 2004



*Fast, Reliable Tubing Connections
with No Tools!*

John Guest has a long established reputation as a world leading supplier of Fluid System Products. This reputation has been built by consistently producing high quality products with an ongoing commitment to growth and innovation. Combine these with our superior product reliability and customer service and you've got a partner you can really count on.

John Guest is an ISO 9001 registered company and is listed as a preferred supplier by many leading international companies.

Super Speedfit[®] Push-In Fittings

This simple concept pioneered by John Guest over 30 years ago now embodies a comprehensive line of over 3,000 products addressing virtually every tubing connection requirement. Our **Super Speedfit**[®] range of push-in fittings is manufactured in acetal copolymer, polypropylene, and brass and are available in inch and metric sizes. They have been developed for applications involving foodstuff, potable liquids, air, inert gasses, CO₂ lines and pneumatic and vacuum systems.

In all applications **John Guest Super Speedfit**[®] fittings require no tools. Tubing is simply inserted into the fitting collet and past the 'o' ring to the tube stop to effect a secure connection. Whether plastic or soft metal tubing is used, the integrity of the connection is assured. **Super Speedfit**[®] push-in fittings afford the most reliable and cost effective solution to tubing connections.

Super Speedfit[®] Shut-Off Valves

Our Shut-Off Valves feature the same simplicity as our fittings for providing a fast and secure way of connecting plastic and soft metal tubing while providing on/off capability. Our valves are suitable for use in potable water, water filtration, reverse osmosis, beverage dispensing, and other foodstuff applications. Our Shut-Off Valves are available in Polypropylene and Acetal. Acetal valves are also suitable for use with compressed air, CO₂ line, and pneumatic applications.

Superseal[®] Push-In Fittings

Our **Superseal**[®] fittings are produced in acetal copolymer and have been designed to provide extra grip on hard steel, stainless steel, and other polished metal tubing. The **Superseal**[®] range is similar to our **Super Speedfit**[®] design but incorporates an additional hand tightened nut and wedge to the Collet and double 'o' rings to effect a leak proof installation.

Half Cartridges

Now you can integrate the **Super Speedfit**[®] technology into your applications with the MI/MM and PI/PM Ranges of inch and metric size Half Cartridges. Our Half Cartridges provide a simple, cost effective, and trouble-free method for securing tubing into your products. Half Cartridges are designed for use with a wide variety of metal or plastic components.

LLDPE Tubing

Our PE Range of Linear Low Density Polyethylene tubing provides the benefits of a wide range of temperature and pressure suitability, broad chemical compatibility, and is made from non-contaminating materials. Tubing is available in inch and metric sizes in a variety of colors, a valuable feature for applications where color coding is essential.

John Guest products are manufactured to the strictest tolerances. Our production process employs Statistical Process Control and consistent quality assurance measures. Our designs provide excellent flow characteristics, eliminate the need for sealant, and can be used repeatedly without the loss of connection integrity.

John Guest products are produced from FDA approved materials and are NSF 51 and 61 certified.

Application Adaptability

With an annual output of over 100 million fittings, you can be confident that we have the right connector for your application needs. Since our fittings are modular in design, they can be coupled together to form new integral fittings, making complex connections quick and easy.

Whether your application is in Water Purification, Beverage Dispensing, Reverse Osmosis, Pneumatics, Plumbing, Spraying & Misting, R.V. & Marine, Vending & OCS, Refrigeration, Air Ring Mains, Plant Maintenance, Car Washing Systems, or Fiber Optics, you can be assured that with John Guest products your connections will be made right, the first time; every time.

We at **John Guest USA, Inc.**, pride ourselves on providing the highest value to our customers through quality products, customer satisfaction, and competitive pricing.

Installation	Page 3
Technical Specifications	Page 4
The PI Range <i>Gray Acetal Inch Size Fittings</i>	Page 5
The MI Range <i>Inch Size Brass Fittings</i>	Page 8
The CI Range <i>White Acetal Inch Size Fittings</i>	Page 9
The PP Range <i>White Polypropylene Inch Size Fittings</i>	Page 10
The SI Range <i>Gray Acetal Fittings with our special SuperSeal feature</i>	Page 11
Metric to Imperial Fittings <i>Gray Acetal Fittings with our special SuperSeal feature</i>	Page 11
The PM Range <i>Black Acetal Metric Fittings</i>	Page 12
Accessories	Page 14
The MI/MM Range <i>Inch and Metric Metal Half Cartridges for use in Original Equipment Manufacture</i>	Page 15
The PI/PM Range <i>Inch and Metric Plastic Half Cartridges for use in Original Equipment Manufacture</i>	Page 15
The PPSV/PISV Range <i>Shut-Off Valves</i>	Page 17
The PE Range <i>Linear Low Density Polyethylene Tubing available in various colors and sizes</i>	Page 18
Chemical Compatibility Chart	Page 19
Terms and Conditions of Sale	Page 22



Materials of construction

The fittings are made up of three components:

Bodies are produced in acetal copolymer or polypropylene.

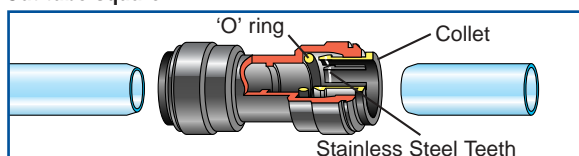
'O' rings are nitrile rubber or EPDM.

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

How to make a connection

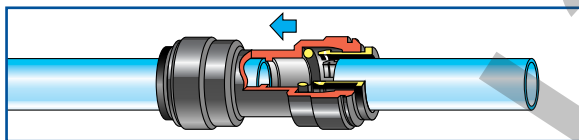
To make a connection, the tube is simply pushed in by hand. The unique patented John Guest collet locking system then holds the tube firmly in place without deforming it or restricting flow.

1 Cut tube square



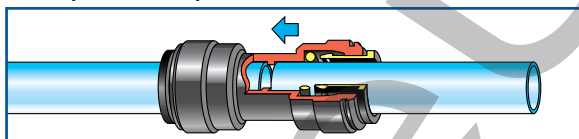
Cut the tube square. It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting. For soft or thin-walled plastic tubing we recommend the use of a tube insert.

2 Insert tube



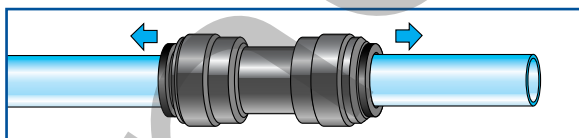
Fitting grips before it seals. Ensure tube is pushed into the tube stop.

3 Push up to tube stop



Push the tube into the fitting, to the tube stop. The collet (gripper) has stainless steel teeth, which hold the tube firmly in position, while the 'O' ring provides a permanent leak proof seal.

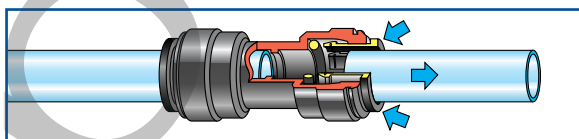
4 Pull to check secure



Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and/or before use.

Disconnecting

Push in collet and remove tube



To disconnect, ensure the system is depressurized before removing the tube. Push in collet squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be re-used.

Installation and System Testing

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

All tube fittings installations must be pressure tested after installation to ensure system integrity before handing over to the final user. Also refer to "How to Make a Connection" on this page.

Working Pressure and Temperature Range for Acetal Fittings (PI, SI, SM & PM).

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		
- 4°F	230 psi	150 psi
- 20°C	(16 Bar)	(10 Bar)
Potable Liquids and Air		
+ 33°F	230 psi	150 psi
+ 1°C	(16 Bar)	(10 Bar)
+ 73°F	230 psi	150 psi
+ 23°C	(16 Bar)	(10 Bar)
+ 158°F	150 psi	100 psi
+ 70°C	(10 Bar)	(7 Bar)

Also suitable for vacuum

For Polypropylene Working Pressure and Temperature Range, please refer to page 10.

Depending on the tube used, under certain conditions fittings may be used at higher pressures and temperatures. Please consult our Technical Support Department for guidance.

Super Speedfit® Fittings and Shut-Off Valves are suitable for use with the following tube types:

Plastic Tube - Polyethylene, nylon, and polyurethane conforming to the tolerances shown on page 4. For soft or thin wall tube we recommend the use of tube inserts.

Braided Hose - Use of Tube to Hose Stems, listed on pages 7, 11 and 14, is essential, when using braided tube or hose. Use of clamps to retain braided tube on barbs is recommended.

Metal Tube (soft) - Brass, copper, or mild steel conforming to the tolerances shown on page 4.

Metal Tube (hard) - We do not recommend **Super Speedfit®** fittings for hard metal or chrome plated tubes. For stainless steel tube we recommend the use of **Superseal®** fittings. These are shown on page 11 of this brochure.

It is essential that outside diameters be free from score marks and that the tube be deburred before inserting into 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

Responsibility of Use

While we warrant our products against defects in manufacture or materials, it is the responsibility of any user/installer to ensure that fittings and related products are suitable for their application, that the installation is carried out correctly, and that the installation is properly maintained.

Chemicals

For use with chemicals or other potentially aggressive liquids, please refer to our Chemical Compatibility Chart shown on page 19 and 20, or consult our Technical Support Department.

Super Speedfit® fittings are not to be used with explosive gasses, 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 color coding. Covers are offered in a range of six colors. Please see page 14 of this brochure.

Food Quality

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

The wetted surfaces of John Guest PI, PM, SI, CI, PP and NC plastic fittings, PPSV and PISV Valves, and PE Tubing are in compliance with FDA requirements for direct contact with food as detailed in 21CFR part 177.2470 for the body and 177.2600 for the O-ring.

Maximum Torque Values for John Guest Plastic Threaded Fittings:

Do not over-tighten plastic threaded fittings, as this could cause undue stress and eventual failure. Maximum recommended torque figures are shown below.

	Threads		
	1/8" - 1/4"	3/8" - 1/2"	3/4"
Maximum Torque	1.0ft lbs 1.5Nm	2.2ft lbs 3.0Nm	2.9ft lbs 4.0Nm

John Guest recommends that OEM customers consider replacing threaded ports with the more modern cartridge system.

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 **Super Speedfit®** fittings are dependent on the mating thread conforming to the relevant U.S., British, or International thread standard.

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, heat distorted, or corroded, they should be replaced. Any product that is or appears to be leaking should also 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.

Cleaning and Sanitizing

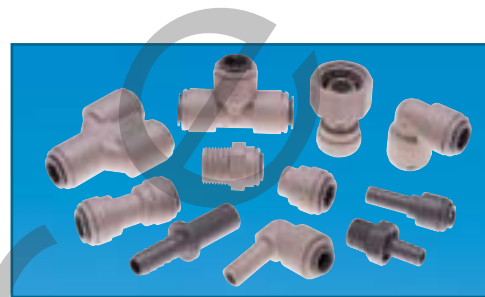
For Acetal Fittings, we recommend only the use of cleaners and sanitizing agents that are above pH4 and are low in hypochlorite levels. Acetal fittings and parts that are cleaned and/or sanitized should be rinsed immediately with copious amounts of clean, neutral tap water to remove all traces of the cleaners. Details of which products are made from acetal are shown in our catalog, but generally, John Guest products incorporating acetal are designated by the part number prefixes "PI", "PM", "CI", "CM", and "RM". While polypropylene has different mechanical properties from acetal, John Guest Polypropylene Fittings and Valves, prefixes "PP" and "PPSV", offer greater resistance to aggressive chemicals and can be cleaned by the same process as Acetal Fittings. Our material suppliers recommend ECOLAB Oasis 133 as a suitable external cleaner for acetal products manufactured by John Guest. For more information please refer to our terms and conditions of sale on page 22.

The company has a policy of continuous research and product development and reserves the right to amend without notice the specification and design of all products illustrated in this catalog.

The PI Range of Inch-Size Fittings

The PI Range of inch-size push-in fittings is offered for tube sizes 5/32" O.D. to 5/8" O.D. The fittings are manufactured in gray acetal copolymer with food grade nitrile 'o' ring, making them especially suitable for applications involving foodstuff and potable liquids. They are equally suitable for air and inert gasses and can therefore be used on CO₂ lines, pneumatic applications, and vacuum.

Technical Specifications shown on page 4.



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

FLARE MALE CONNECTOR		MFL Thread	
PART NO.	TUBE OD	THREAD	MFL
PI0108F4S	1/4	x	1/4
PM0108F5S	5/16	x	5/16
PI0112F4S	3/8	x	1/4
PI0112F5S	3/8	x	5/16
PI0112F6S	3/8	x	3/8
PI0112F8S	3/8	x	1/2
PI0116F8S	1/2	x	1/2
PM0108C5S	5/16	x	1/2 - 16
PI0112C5S	3/8	x	1/2 - 16

1/4" (MFL) corresponds to a 7/16-20 UNF
 5/16" (MFL) corresponds to a 1/2-20 UNF
 3/8" (MFL) corresponds to a 5/8-18 UNF
 1/2" (MFL) corresponds to a 3/4-16 UNF

STEM ADAPTER		NPTF Thread	
PART NO.	STEM OD	THREAD	NPTF
PM050421S	5/32	x	1/8
PM050422S	5/32	x	1/4
PI050621S	3/16	x	1/8
PI050821S	1/4	x	1/8
PI050822S	1/4	x	1/4
PI050823S	1/4	x	3/8
PM050821S	5/16	x	1/8
PM050822S	5/16	x	1/4
PM050823S	5/16	x	3/8
PI051222S	3/8	x	1/4
PI051223S	3/8	x	3/8
PI051623S	1/2	x	3/8
PI051624S	1/2	x	1/2

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

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

STEM ADAPTER		BSPT Thread	
PART NO.	STEM OD	THREAD	BSPT
PM050401S	5/32	x	1/8
PM050402S	5/32	x	1/4
PI050601S	3/16	x	1/8
PI050801S	1/4	x	1/8
PI050802S	1/4	x	1/4
PM050801S	5/16	x	1/8
PM050802S	5/16	x	1/4
PM050803S	5/16	x	3/8
PI051202S	3/8	x	1/4
PI051203S	3/8	x	3/8
PI051603S	1/2	x	3/8
PI051604S	1/2	x	1/2

MALE CONNECTOR		BSPP Thread	
PART NO.	TUBE OD	THREAD	BSPP
PI010812S	1/4	x	1/4
PI011212S	3/8	x	1/4

UNION ELBOW		PART NO.	TUBE OD
		PM0304S	5/32
		PI0306S	3/16
		PI0308S	1/4
		PM0308S	5/16
		PI0312S	3/8
		PI0316S	1/2

STEM ADAPTER		BSPP Thread	
PART NO.	STEM OD	THREAD	BSPP
PM050812S	5/16	x	1/4
PI051212S	3/8	x	1/4
PI051213S	3/8	x	3/8

MALE CONNECTOR		BSPP Thread	
PART NO.	TUBE OD	THREAD	BSPP
NCPI011212S	3/8	x	1/4
NCPI011211S	3/8	x	1/8

UNION CONNECTOR		PART NO.	TUBE OD
		PM0404S	5/32
		PI0406S	3/16
		PI0408S	1/4
		PM0408S	5/16
		PI0412S	3/8
		PI0416S	1/2

REDUCER		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

With special large seal for use with chamfered face ports.



Inch-Size Push-in Fittings

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

SWIVEL BRANCH TEE <i>Center Leg BSPT Thread</i>			
PART NO.	TUBE OD	THREAD	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
PI101203S	3/8	x	3/8
PI101603S	1/2	x	3/8
PI101604S	1/2	x	1/2

REDUCING BULKHEAD UNION			
PART NO.	TUBE OD	TUBE OD	MOUNTING HOLE DIA. (INCH)
NC392-02	1/2	- 1/4	0.83
PI121208S	3/8	- 1/4	0.83

SWIVEL ELBOW <i>NPTF Thread</i>			
PART NO.	TUBE OD	THREAD	NPTF
PM090421S	5/32	x	1/8
PM090422S	5/32	x	1/4
PI090621S	3/16	x	1/8
PI090821S	1/4	x	1/8
PI090822S	1/4	x	1/4
PM090821S	5/16	x	1/8
PM090822S	5/16	x	1/4
PM090823S	5/16	x	3/8
PI091221S	3/8	x	1/8
PI091222S	3/8	x	1/4
PI091223S	3/8	x	3/8
PI091622S	1/2	x	1/4
PI091623S	1/2	x	3/8
PI091624S	1/2	x	1/2

SWIVEL MALE RUN TEE <i>NPTF Thread</i>			
PART NO.	TUBE OD	THREAD	NPTF
PM110421S	5/32	x	1/8
PM110422S	5/32	x	1/4
PI110621S	3/16	x	1/8
PI110821S	1/4	x	1/8
PI110822S	1/4	x	1/4
PM110821S	5/16	x	1/8
PM110822S	5/16	x	1/4
PM110823S	5/16	x	3/8
PI111222S	3/8	x	1/4
PI111223S	3/8	x	3/8
PI111623S	1/2	x	3/8
PI111624S	1/2	x	1/2

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

SWIVEL ELBOW <i>BSPT Thread</i>			
PART NO.	TUBE OD	THREAD	BSPT
PI090601S	3/16	x	1/8
PI090801S	1/4	x	1/8
PI090802S	1/4	x	1/4
PM090801S	5/16	x	1/8
PM090802S	5/16	x	1/4
PM090803S	5/16	x	3/8
PI091202S	3/8	x	1/4
PI091203S	3/8	x	3/8
PI091603S	1/2	x	3/8
PI091604S	1/2	x	1/2

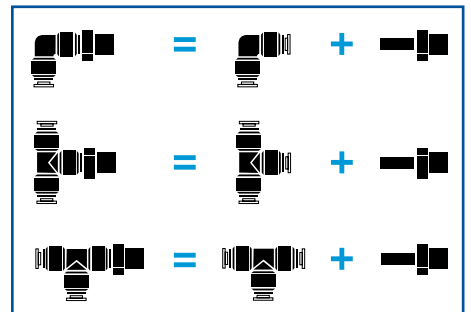
SWIVEL MALE RUN TEE <i>BSPT Thread</i>			
PART NO.	TUBE OD	THREAD	BSPT
PI110601S	3/16	x	1/8
PI110801S	1/4	x	1/8
PI110802S	1/4	x	1/4
PM110801S	5/16	x	1/8
PM110802S	5/16	x	1/4
PM110803S	5/16	x	3/8
PI111202S	3/8	x	1/4
PI111203S	3/8	x	3/8
PI111603S	1/2	x	3/8
PI111604S	1/2	x	1/2

REDUCING UNION			
PART NO.	TUBE OD	TUBE OD	TUBE 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
PI201610S	1/2	-	5/16
PI201612S	1/2	-	3/8

SWIVEL BRANCH TEE <i>Center Leg NPTF Thread</i>			
PART NO.	TUBE OD	THREAD	NPTF
PM100421S	5/32	x	1/8
PM100422S	5/32	x	1/4
PI100621S	3/16	x	1/8
PI100821S	1/4	x	1/8
PI100822S	1/4	x	1/4
PM100821S	5/16	x	1/8
PM100822S	5/16	x	1/4
PM100823S	5/16	x	3/8
PI101222S	3/8	x	1/4
PI101223S	3/8	x	3/8
PI101623S	1/2	x	3/8
PI101624S	1/2	x	1/2

BULKHEAD UNION			
PART NO.	TUBE OD	MOUNTING HOLE DIA. (INCH)	
PM1204S	5/32	0.67	
PI1206S	3/16	0.67	
PI1208S	1/4	0.67	
PM1208S	5/16	0.83	
PI1212S	3/8	0.83	
PI1216S	1/2	1.06	

John Guest Adaptability
Standard *Super Speedfit*® products can be coupled together to form new integral fittings.



REDUCING ELBOW



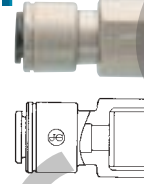
PART NO.	TUBE OD	TUBE OD
PM210804S	5/16	5/32
PI211006S	5/16	3/16
PI211008S	5/16	1/4
PI211206S	3/8	3/16
PI211208S	3/8	1/4
PI211210S	3/8	5/16
PI211610S	1/2	5/16
PI211612S	1/2	3/8

TUBE TO HOSE STEM Long Version



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

FEMALE CONNECTOR NPTF Thread



PART NO.	TUBE OD	THREAD NPTF
PI450822S	1/4	x 1/4
PI451222S	3/8	x 1/4

PLUG IN ELBOW



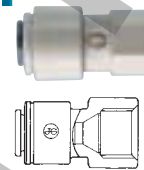
PART NO.	STEM OD	TUBE OD
PM220404S	5/32	5/32
PI220606S	3/16	3/16
PI220808S	1/4	1/4
PM220808S	5/16	5/16
PI221206S	3/8	3/16
PI221208S	3/8	1/4
PI221210S	3/8	5/16
PI221212S	3/8	3/8
PI221616S	1/2	1/2

TUBE TO HOSE ELBOW



PART NO.	STEM OD	HOSE 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

FEMALE CONNECTOR UN Thread



PART NO.	TUBE OD	THREAD UN
PM4508C5S	5/16	x 1/2 - 16
PI4512C5S	3/8	x 1/2 - 16
PI4516C5S	1/2	x 1/2 - 16

TWO-WAY DIVIDER



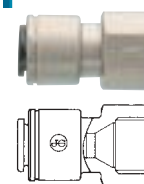
PART NO.	TUBE OD
PI2308S	1/4
PM2308S	5/16
PI2312S	3/8
PI2316S	1/2

REDUCING TEE



PART NO.	TUBE OD	TUBE OD BRANCH
PI301208S	3/8	1/4
PI301612S	1/2	3/8

FEMALE FLARE CONNECTOR FFL Thread



PART NO.	TUBE OD	THREAD FFL
PM4508F4S	5/16	x 1/4
PI4512F4S	3/8	x 1/4
PI4512F6S	3/8	x 3/8

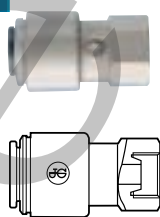
1/4 (FFL) corresponds to a 7/16-20 UNF
3/8 (FFL) corresponds to a 5/8-18 UNF

UNEQUAL TWO-WAY DIVIDER



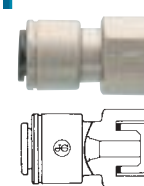
PART NO.	TUBE OD INLET	TUBE OD OUTLET
PI241210S	3/8	5/16

FAUCET CONNECTOR UNS Thread



PART NO.	TUBE OD	THREAD UNS
CI3208U7S	1/4	x 7/16 - 24
CI3210U7S	5/16	x 7/16 - 24
CI3212U7S	3/8	x 7/16 - 24

FEMALE CONNECTOR-Cone End BSPP Thread



PART NO.	TUBE OD	THREAD BSPP
PI451014CS	5/16	x 1/2
PI451015CS	5/16	x 5/8
PI451214CS	3/8	x 1/2
PI451215CS	3/8	x 5/8
PI451614CS	1/2	x 1/2
PI451615CS	1/2	x 5/8

TUBE TO HOSE STEM



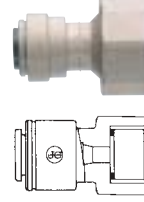
PART NO.	STEM OD	HOSE ID
PI250806S	1/4	3/16
PI250808S	1/4	1/4
PI250810S	1/4	5/16
PI251006S	5/16	3/16
PI251008S	5/16	1/4
PM250808S	5/16	5/16
PI251012S	5/16	3/8
PI251208S	3/8	1/4
PI251210S	3/8	5/16
PI251212S	3/8	3/8
PI251216S	3/8	1/2
PI251612S	1/2	3/8
PI251616S	1/2	1/2

FAUCET CONNECTOR BSPP Thread



PART NO.	TUBE OD	THREAD BSPP
CI320814S	1/4	x 1/2
CI321214S	3/8	x 1/2

FEMALE CONNECTOR-Flat End BSPP Thread



PART NO.	TUBE OD	THREAD BSPP
PI451014FS	5/16	x 1/2
PI451015FS	5/16	x 5/8
PI451213S	3/8	x 3/8
PI451214FS	3/8	x 1/2
PI451215FS	3/8	x 5/8
PI451613S	1/2	x 3/8
PI451615FS	1/2	x 5/8


END STOP



PART NO.	TUBE OD
PI4608S	1/4
PI4612S	3/8


Inch-Size Push-in Fittings

CROSS




PART NO.	TUBE OD
PI4712S	3/8

DISPENSING VALVE ELBOW




PART NO.	TUBE OD	STEM OD
NC356-02	3/8	3/8

U-BEND




PART NO.	TUBE OD
PIUB16S	1/2

FIXED ELBOW NPTF Thread

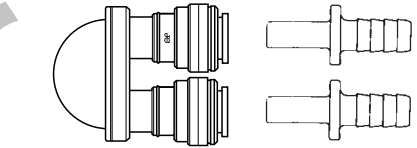


PART NO.	TUBE OD	THREAD NPTF
PI480821S	1/4	x 1/8
PI480822S	1/4	x 1/4
PI480823S	1/4	x 3/8
PI481222S	3/8	x 1/4
PI481223S	3/8	x 3/8
PI482024S	5/8	x 1/2

DISPENSING VALVE STEM




PART NO.	STEM OD
NC730-02	3/8




The U-Bend is offered for 1/2 inch OD tube sizes. Existing 1/2 inch ID lines can be accommodated by using a Standard Tube to Hose Stem (see page 7).

THREE-WAY DIVIDER




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

OFF-SET CONNECTOR



PART NO.	TUBE OD	TUBE OD
NC641	1/2	- 5/16

CHECK VALVE



PART NO.	TUBE OD
1/4SCV*	1/4
5/16SCV*	5/16
3/8SCV**	3/8

Super Speedfit® single check valves allow flow in one direction. **For Liquids only.**

The MI Range of Brass Fittings

The **MI** Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. and 3/8" O.D. The fittings are manufactured in brass with a polypropylene collet and a food grade EPDM 'o' ring.

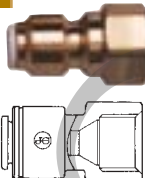
The fittings have been designed for use in Coffee Brewing Equipment, Beverage Dispensing, and Vending Machine applications.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (Max. 10 Bar at 20°C)
	Max.	60 psi at 140°F (Max. 4 Bar at 60°C)
	Min.	33°F/1°C




BRASS FEMALE CONNECTOR FFL Thread



PART NO.	TUBE OD	THREAD FFL
MI4508F4S	1/4	x 1/4
MI4512F4S	3/8	x 1/4
MI4512F6S	3/8	x 3/8

1/4 (FFL) corresponds to a 7/16-20 UNF


BRASS FEMALE CONNECTOR



PART NO.	TUBE OD	THREAD NH (National Hose)
NC2098	1/4	x 3/4

NEW

FEMALE NUT ASSEMBLY BSP Thread



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



Helpful Hint:

For Vending and Office Coffee Services, Polypropylene Plug-In Elbows (shown on page 10) can be coupled with the above brass fittings to form 90° swivel fittings.

The CI Range of Inch-Size Fittings

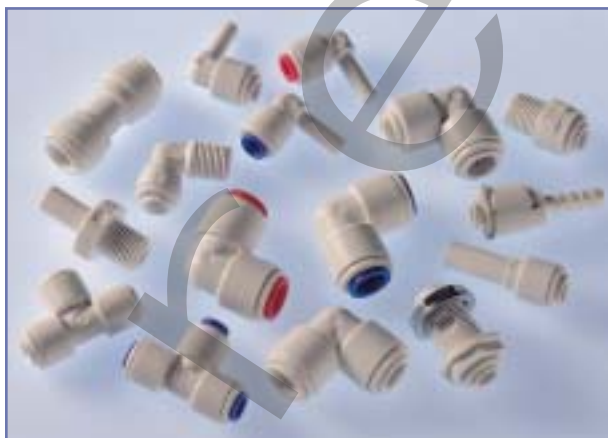
The CI Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. and 3/8" O.D. The fittings are manufactured in white acetal copolymer with food grade EPDM 'o' rings. They have been developed for the water industry but are equally suitable for other potable liquids. They are also suitable for intermittent hot water applications.

Selected items are available with red or blue collets.

The CI Range is NOT suitable for compressed air.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 bar at 20°C)
 Max. 100 psi at 150°F (Max. 7 bar at 65°C) intermittent hot water
 Min. 33°F/1°C



MALE CONNECTOR NPTF Thread

PART NO.	TUBE OD	THREAD NPTF
CI010821W	1/4	x 1/8
CI010822W	1/4	x 1/4
CI010823W	1/4	x 3/8
CI011222W	3/8	x 1/4

STEM ADAPTER NPTF Thread

PART NO.	STEM OD	THREAD NPTF
CI050821W	1/4	x 1/8
CI050822W	1/4	x 1/4
CI051222W	3/8	x 1/4
CI051223W	3/8	x 3/8

PLUG IN ELBOW

PART NO.	STEM OD	TUBE OD
CI220808W	1/4	- 1/4
CI221208W	3/8	- 1/4
CI221212W	3/8	- 3/8

1/4" and 3/8" sizes are also available with blue or red collet. Suffix indicates color.
 R = Red B = Blue

UNION TEE

PART NO.	TUBE OD
CI0208W	1/4
CI0212W	3/8

REDUCER

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

BARB CONNECTOR

PART NO.	SUPERSEAL OD	HOSE ID
CI270808W	1/4	- 1/4

1/4" size also available with blue collet.
 Use suffix B.

UNION ELBOW

PART NO.	TUBE OD
CI0308W	1/4
CI0312W	3/8

BULKHEAD UNION

PART NO.	TUBE OD	MOUNTING HOLE DIA.
CI1208W	1/4	0.67

FIXED ELBOW NPTF Thread

PART NO.	TUBE OD	THREAD NPTF
CI480821W	1/4	x 1/8
CI480822W	1/4	x 1/4
CI480823W	1/4	x 3/8
CI481222W	3/8	x 1/4

3/8" size also available with blue or red collet.
 Suffix indicates color.
 R = Red B = Blue

UNION CONNECTOR

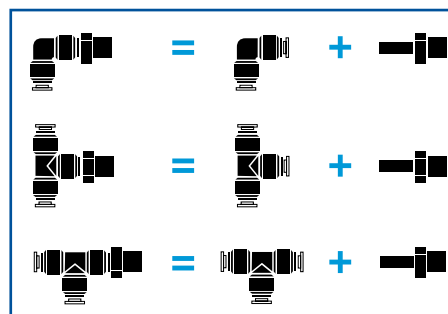
PART NO.	TUBE OD
CI0408W	1/4
CI0412W	3/8

REDUCING ELBOW

PART NO.	TUBE OD	TUBE OD
CI211206W	3/8	- 3/16

John Guest Adaptability

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





The PP Range of Polypropylene Fittings

The PP Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 1/2" O.D. The fittings are manufactured in white polypropylene with food grade EPDM 'o' rings. They have been developed to satisfy the compatibility needs for a wide range of applications.

Working Pressures and Temperatures

Water Max. 150 psi at 70°F (Max. 10 Bar at 20°C)
 Max. 60 psi at 140°F (Max. 4 Bar at 60°C)
 Min. 33°F/1°C



MALE CONNECTOR		NPTF Thread	
PART NO.	TUBE OD	THREAD	NPTF
PP010821W	1/4	x	1/8
PP010822W	1/4	x	1/4
PP010823W	1/4	x	3/8
PP011222W	3/8	x	1/4
PP011223W	3/8	x	3/8
PP011224W	3/8	x	1/2
PP011623W	1/2	x	3/8
PP011624W	1/2	x	1/2

REDUCER		
PART NO.	STEM OD	TUBE OD
PP061208W	3/8	- 1/4
PP061612W	1/2	- 3/8

REDUCING UNION		
PART NO.	TUBE OD	TUBE OD
PP201612W	1/2	x 3/8

UNION TEE	
PART NO.	TUBE OD
PP0208W	1/4
PPM0208W	5/16
PP0212W	3/8
PP0216W	1/2

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

PLUG IN ELBOW		
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

UNION ELBOW	
PART NO.	TUBE OD
PP0308W	1/4
PPM0308W	5/16
PP0312W	3/8
PP0316W	1/2

SWIVEL ELBOW			NPTF Thread	
PART NO.	TUBE OD	THREAD	NPTF	
PP090821W	1/4	x	1/8	
PP090822W	1/4	x	1/4	
PP091222W	3/8	x	1/4	
PP091223W	3/8	x	3/8	

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

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

SWIVEL BRANCH TEE			Center Leg NPTF Thread	
PART NO.	TUBE OD	THREAD	NPTF	
PP100821W	1/4	x	1/8	
PP100822W	1/4	x	1/4	
PP101222W	3/8	x	1/4	
PP101223W	3/8	x	3/8	

REDUCING TEE				
PART NO.	TUBE OD RUN	TUBE OD RUN	TUBE OD BRANCH	
PP301208W	3/8	1/4	3/8	
PP30121208W	3/8	3/8	1/4	
PP301612W	1/2	1/2	3/8	

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

SWIVEL MALE RUN TEE			NPTF Thread	
PART NO.	TUBE OD	THREAD	NPTF	
PP110821W	1/4	x	1/8	
PP110822W	1/4	x	1/4	
PP111222W	3/8	x	1/4	
PP111223W	3/8	x	3/8	

FAUCET CONNECTOR			UNS Thread	
PART NO.	TUBE OD	THREAD	UNS	
PP3212U7W	3/8	x 7/16	- 24	
PP3208U7W	1/4	x 7/16	- 24	

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

FIXED ELBOW			NPTF Thread	
PART NO.	TUBE OD	THREAD	NPTF	
PP480821W	1/4	x	1/8	
PP480822W	1/4	x	1/4	
PP480823W	1/4	x	3/8	
PP481222W	3/8	x	1/4	
PP481223W	3/8	x	3/8	

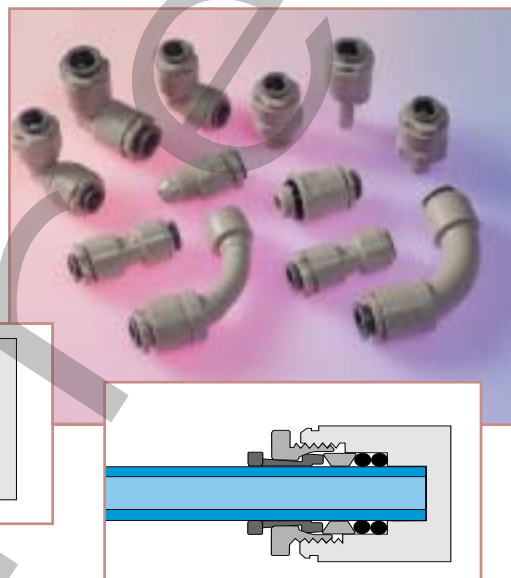
The SI Range of *Superseal*® Fittings

For use with Stainless Steel Tubing

The **SI** Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 3/8" O.D. The fittings have been especially designed to provide extra grip on stainless steel, and other polished metal tubing.

The *Superseal*® design features a collet with integrally molded stainless steel teeth similar to our standard *Super Speedfit*® design, but incorporating an additional hand-operated nut and wedge shaped plastic washer to apply extra pressure to the collet and 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 Specifications shown on page 4.



MALE CONNECTOR *BSPT Thread*

PART NO.	SUPERSEAL OD	THREAD	BSPT
SM010802S	5/16	x	1/4

UNION ELBOW *Superseal x Speedfit*

PART NO.	SUPERSEAL OD	SPEEDFIT 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

UNION ELBOW *Superseal x Superseal*

PART NO.	SUPERSEAL OD	SUPERSEAL OD
SM400808S	5/16	- 5/16
SI401210S	3/8	- 5/16
SI401212S	3/8	- 3/8

MALE CONNECTOR *BSPP Thread*

PART NO.	SUPERSEAL OD	THREAD	BSPP
SM010812S	5/16	x	1/4

UNION CONNECTOR *Superseal x Speedfit*

PART NO.	SUPERSEAL OD	SPEEDFIT OD
SM040808S	5/16	- 5/16
SI041012S	5/16	- 3/8
SI041210S	3/8	- 5/16
SI041212S	3/8	- 3/8

UNION CONNECTOR *Superseal x Superseal*

PART NO.	SUPERSEAL OD	SUPERSEAL OD
SM410808E	5/16	- 5/16

FLARE MALE CONNECTOR *MFL Thread*

PART NO.	SUPERSEAL OD	THREAD	MFL
SM0108F4S	5/16	x	1/4
SM0108F6S	5/16	x	3/8

BARB CONNECTOR

PART NO.	SUPERSEAL OD	HOSE ID
SI270808S	1/4	- 1/4
SI271008S	5/16	- 1/4
SI271208S	3/8	- 1/4

FLOW BEND CONNECTOR *Superseal x Speedfit*

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

SPANNER

PART NO.	SIZE
SPAN1	5/16 & 3/8

NEW

Metric to Imperial Fittings

UNION CONNECTOR

PART NO.	TUBE OD	TUBE OD
NC462	15	- 1/2

TUBE TO HOSE STEM

PART NO.	STEM OD	HOSE ID
NC932	15	- 1/2

TEE ADAPTER

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

STEM TO TUBE ADAPTER

PART NO.	STEM OD	TUBE OD
NC2164	15	- 3/8
NC2173	1/2	- 15
NC908	1/2	- 18

BARB CONNECTOR

PART NO.	STEM OD	HOSE ID
NC448	15	- 1/2

STEM TO STEM ADAPTER

PART NO.	STEM OD	STEM OD
NC478	15	- 3/8

The PM Range of Metric-Size Fittings

The **PM** Range of metric-size push-in fittings is offered for tube sizes 4mm O.D. to 12mm O.D. The fittings are manufactured in black acetal copolymer with food grade nitrile 'o' rings, making them especially suitable for applications involving foodstuff and potable liquids. They are equally suitable for air and inert gasses and can therefore be used on CO₂ lines, pneumatic applications, and vacuum.

Technical Specifications shown on page 4.



MALE CONNECTOR		BSPT Thread	
PART NO.	TUBE OD	THREAD	BSPT
PM010401E	4	x	1/8
PM010402E	4	x	1/4
PM010501E	5	x	1/8
PM010502E	5	x	1/4
PM010601E	6	x	1/8
PM010602E	6	x	1/4
PM010801E	8	x	1/8
PM010802E	8	x	1/4
PM010803E	8	x	3/8
PM011002E	10	x	1/4
PM011003E	10	x	3/8
PM011004E	10	x	1/2
PM011203E	12	x	3/8
PM011204E	12	x	1/2

UNION TEE		PART NO.	TUBE OD
		PM0204E	4
		PM0205E	5
		PM0206E	6
		PM0208E	8
		PM0210E	10
		PM0212E	12

STEM ADAPTER		BSPT Thread	
PART NO.	STEM OD	THREAD	BSPT
PM050401E	4	x	1/8
PM050402E	4	x	1/4
PM050501E	5	x	1/8
PM050502E	5	x	1/4
PM050601E	6	x	1/8
PM050602E	6	x	1/4
PM050801E	8	x	1/8
PM050802E	8	x	1/4
PM050803E	8	x	3/8
PM051002E	10	x	1/4
PM051003E	10	x	3/8
PM051004E	10	x	1/2
PM051203E	12	x	3/8
PM051204E	12	x	1/2

UNION ELBOW		PART NO.	TUBE OD
		PM0304E	4
		PM0305E	5
		PM0306E	6
		PM0308E	8
		PM0310E	10
		PM0312E	12

MALE CONNECTOR		BSPP Thread	
PART NO.	TUBE OD	THREAD	BSPP
PM010411E	4	x	1/8
PM010412E	4	x	1/4
PM010511E	5	x	1/8
PM010512E	5	x	1/4
PM010611E	6	x	1/8
PM010612E	6	x	1/4
PM010811E	8	x	1/8
PM010812E	8	x	1/4
PM010813E	8	x	3/8
PM011012E	10	x	1/4
PM011013E	10	x	3/8
PM011014E	10	x	1/2
PM011213E	12	x	3/8
PM011214E	12	x	1/2

UNION CONNECTOR		PART NO.	TUBE OD
		PM0404E	4
		PM0405E	5
		PM0406E	6
		PM0408E	8
		PM0410E	10
		PM0412E	12

STEM ADAPTER		BSPP Thread	
PART NO.	STEM OD	THREAD	BSPP
PM050411E	4	x	1/8
PM050412E	4	x	1/4
PM050511E	5	x	1/8
PM050512E	5	x	1/4
PM050611E	6	x	1/8
PM050612E	6	x	1/4
PM050811E	8	x	1/8
PM050812E	8	x	1/4
PM050813E	8	x	3/8
PM051012E	10	x	1/4
PM051013E	10	x	3/8
PM051014E	10	x	1/2
PM051213E	12	x	3/8
PM051214E	12	x	1/2

REDUCER			
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

SWIVEL ELBOW			
PART NO.	TUBE OD	BSPB Thread	
		TUBE OD	THREAD BSPB
PM090411E	4	x	1/8
PM090412E	4	x	1/4
PM090511E	5	x	1/8
PM090512E	5	x	1/4
PM090611E	6	x	1/8
PM090612E	6	x	1/4
PM090811E	8	x	1/8
PM090812E	8	x	1/4
PM090813E	8	x	3/8
PM091012E	10	x	1/4
PM091013E	10	x	3/8
PM091014E	10	x	1/2
PM091213E	12	x	3/8
PM091214E	12	x	1/2

SWIVEL MALE RUN TEE			
PART NO.	TUBE OD	BSPT Thread	
		TUBE OD	THREAD BSPT
PM110401E	4	x	1/8
PM110402E	4	x	1/4
PM110501E	5	x	1/8
PM110502E	5	x	1/4
PM110601E	6	x	1/8
PM110602E	6	x	1/4
PM110801E	8	x	1/8
PM110802E	8	x	1/4
PM110803E	8	x	3/8
PM111002E	10	x	1/4
PM111003E	10	x	3/8
PM111004E	10	x	1/2
PM111203E	12	x	3/8
PM111204E	12	x	1/2

PLUG		
PART NO.	STEM OD	
PM0804R	4	
PM0805R	5	
PM0806R	6	
PM0808R	8	
PM0810R	10	
PM0812R	12	

R – Denotes Red Color Plug

SWIVEL BRANCH TEE			
PART NO.	TUBE OD	BSPT Thread	
		TUBE OD	THREAD BSPT
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			
PART NO.	TUBE OD	BSPB Thread	
		TUBE OD	THREAD BSPB
PM110411E	4	x	1/8
PM110412E	4	x	1/4
PM110511E	5	x	1/8
PM110512E	5	x	1/4
PM110611E	6	x	1/8
PM110612E	6	x	1/4
PM110811E	8	x	1/8
PM110812E	8	x	1/4
PM110813E	8	x	3/8
PM111012E	10	x	1/4
PM111013E	10	x	3/8
PM111014E	10	x	1/2
PM111213E	12	x	3/8
PM111214E	12	x	1/2

SWIVEL ELBOW			
PART NO.	TUBE OD	BSPT Thread	
		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	x	1/8
PM090802E	8	x	1/4
PM090803E	8	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

SWIVEL BRANCH TEE			
PART NO.	TUBE OD	BSPB Thread	
		TUBE OD	THREAD BSPB
PM100411E	4	x	1/8
PM100412E	4	x	1/4
PM100511E	5	x	1/8
PM100512E	5	x	1/4
PM100611E	6	x	1/8
PM100612E	6	x	1/4
PM100811E	8	x	1/8
PM100812E	8	x	1/4
PM100813E	8	x	3/8
PM101012E	10	x	1/4
PM101013E	10	x	3/8
PM101014E	10	x	1/2
PM101213E	12	x	3/8
PM101214E	12	x	1/2

BULKHEAD UNION			
PART NO.	TUBE OD	MOUNTING HOLE DIA. (MM)	
PM1204E	4	16.5	
PM1205E	5	16.5	
PM1206E	6	16.5	
PM1208E	8	21.0	
PM1210E	10	21.0	
PM1212E	12	26.5	

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

ORDER ONLINE Metric- and Inch-Size Push-In Fittings

REDUCING UNION



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

TWO-WAY DIVIDER



PART NO.	TUBE OD
PM2304E	4
PM2308E	8

OFFSET CONNECTOR



PART NO.	TUBE OD	TUBE OD
NC657	12	8

REDUCING ELBOW



PART NO.	TUBE OD	TUBE 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

TUBE TO HOSE STEM



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

U-BEND



PART NO.	TUBE OD
PMUB15E	15

PLUG-IN ELBOW



PART NO.	STEM OD	TUBE OD
PM220404E	4	4
PM220505E	5	5
PM220606E	6	6
PM220808E	8	8
PM221010E	10	10
PM221212E	12	12

FEMALE CONNECTOR



PART NO.	TUBE OD	THREAD
PM450411E	4	x 1/8 BSPP
PM450612E	6	x 1/4 BSPP
PM450812E	8	x 1/4 BSPP
PM4508F4S	8	x 1/4 FL
PM4508C5S	8	x 1/2-16 UN

Accessories

COLLET COVERS



PART NO.	TUBE OD
PM1904S	5/32
PI1906S	3/16
PI1908S	1/4
PM1908S	5/16
PI1912S	3/8
PI1916S	1/2



Colors available -
Suffix indicates colors
E = Black Y = Yellow B = Blue
R = Red S = Gray G = Green

The slip-on collet cover shown in the photograph 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 colors for color coding.

Please indicate by suffix which color is required or gray will be supplied.

Also available in metric sizes.

COLLET LOCKING/RELEASE TOOL



PART NO.	SIZES INCLUDE
ICLT/2	3/16, 1/4, 5/16, 3/8, 1/2
TSPITool*	1/4, 3/8

LOCKING CLIP



PART NO.	TUBE OD
PIC1808R	1/4
PIC1812R	3/8
PIC1816R	1/2

The Locking Clip secures the collet in its position to prevent an accidental disconnection of the tube. Locking Clips should be applied only after full tube insertion to prevent scraping or scoring of the tube. Locking Clips are not designed for use with John Guest Stem Adapters in swivel combinations.

FLOW BEND CLIP



PART NO.	TUBE OD
PM2608S	5/16
PM2610S	3/8

TUBE INSERT



PART NO.	TUBE OD	TUBE ID
TSI250S	5/16	1/4
TSI312S	3/8	5/16
TSI375S	1/2	3/8
TSM10N*	10	
TSM15N*	15	
TSM22N*	22	

TUBE CUTTER



PART NO.
TSNIP

The MI/MM Range Of Metal Half Cartridges

The MI/MM Range of Half cartridge tube fittings is designed to provide a simple and cost-effective method of integrating the **Super Speedfit®** technology into components produced from a wide variety of materials. Customers should ensure cartridges are suitable for their applications, materials and operating conditions. Using the drawing shown on page 16, create the three-tiered cavity. Press the cartridge (brass or stainless steel) into the outer tier of the cavity. Insert the 'o' ring into the center tier. Snap the collet into the cartridge. For additional information, consult our Technical Support Department.



Inch Series

BRASS BODY Nitrile 'o' ring		BRASS BODY EPDM 'o' ring	
PART NO.	TUBE OD	PART NO.	TUBE OD
MM2804N	5/32	CI2812N	3/8
MI2806N	3/16	CI2820N	5/8
MI2808N	1/4		
MM2808N	5/16		
MI2812N	3/8		
MI2816N	1/2		

For double 'o' rings use suffix 2
(Example: MM2804N2).

Metric Series

BRASS BODY Nitrile 'o' ring	
PART NO.	TUBE OD
MM2804N	4
MM2805N	5
MM2806N	6
MM2808N	8
MM2810N	10
MM2812N	12
CM2815N*	15
CM2822N*	22

* EPDM 'o' ring

The PI/PM Range of Plastic Half Cartridges

The PI/PM Range of Plastic Half Cartridges is similar to our Brass Half Cartridges but consists of a collet and body insert produced in food grade acetal with a nitrile 'o' ring. Our Plastic Half Cartridges have been designed with stainless steel teeth molded into the circumference of the body insert to provide superior gripping capability.

Our Plastic Half Cartridges are suitable for use in valves, pumps, manifolds, and many other components used in water purification, beverage dispensing, pneumatics, and other fluid system applications. They can be used with plastic or metal (copper or mild steel) tubing.

Customers should ensure cartridges are suitable for their applications, materials and operating conditions.



Inch Series

PLASTIC BODY Nitrile 'o' ring		
PART NO.	TUBE OD	DESCRIPTION
PI2808S -B, -R, -W	1/4	Gray Body, Gray Collet Blue, Red or White Collet
PI2808W -B, -R	1/4	White Body, White Collet Blue or Red Collet
PM2808S -B, -R, -W	5/16	Gray Body, Gray Collet Blue, Red or White Collet
PM2808W -B, -R	5/16	White Body, White Collet Blue or Red Collet
PI2812S -B, -R, -W	3/8	Gray Body, Gray Collet Blue, Red or White Collet
PI2812W -B, -R	3/8	White Body, White Collet Blue or Red Collet
PI2816S	1/2	Gray Body, Gray Collet

S-denotes Gray bodies with Gray collets.

W-denotes White Bodies with White collets.

Inch size Plastic Half Cartridges are available in Gray bodies with Gray, Blue or Red collets or White bodies with White, Blue or Red collets. Please use suffix B, R, or W when ordering. Ex. PI2808S-B.

For additional sealing capability all variations are available with double 'o' rings. Please use suffix 2 (Example: PI2808S2).

Metric Series

PLASTIC BODY Nitrile 'o' ring		
PART NO.	TUBE OD	DESCRIPTION
PM2806E	6	Black Body, Black Collet
PM2808E	8	Black Body, Black Collet
PM2810E	10	Black Body, Black Collet

E-denotes Black bodies with Black collets.

For additional sealing capability metric size Half Cartridges are available with double with double 'o' rings. Please use suffix 2 (Example: PM2806E2).

Assembly Tool

PART NO.	FOR CARTRIDGE SIZE
AST-1/4	1/4" and 6mm
AST-3/8	3/8" and 10mm



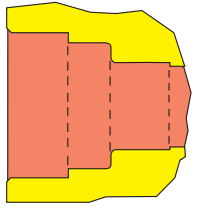
A special hand 'Assembly Tool' is available for each size of Plastic Half Cartridge to ease the assembly process. These can be adapted by the customer to fit a simple bench press etc.

***For cavity dimensional details refer to the appropriate inch or metric drawing on page 16**

Inch- and Metric-Size Metal and Plastic Half Cartridges

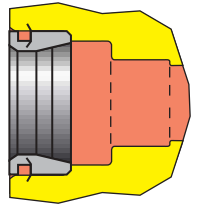
Cartridge Assembly

1



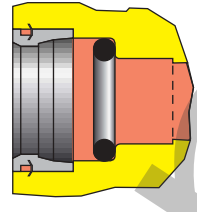
Ensure that the cavity is clean and free from debris, burrs, score marks, etc.

2



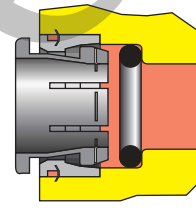
Insert the cartridge down into the housing; ensure the cartridge is flush with the housing.

3



Insert the O-Ring

4



Insert Collet to complete assembly.

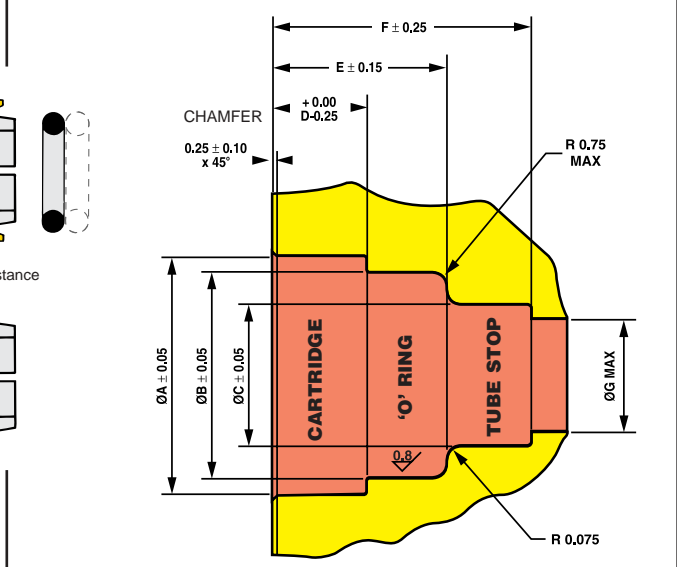
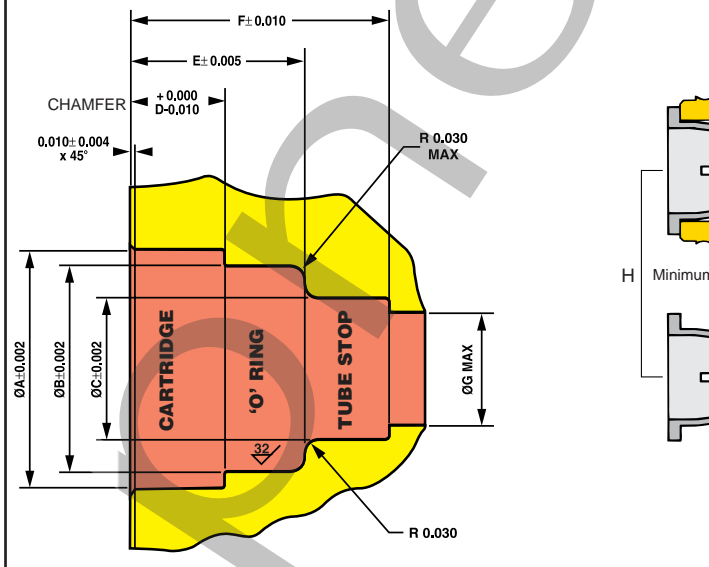
Cavity Dimensional Details

INCH CARTRIDGE CAVITY DIMENSIONS										
TUBE OD	ØA	ØB	ØC	D	E1	E2	F1	F2	ØG	H
5/32	0.492	0.327	0.163	0.181	0.350	0.445	0.504	0.598	0.13	0.59
3/16	0.472	0.348	0.193	0.180	0.340	0.440	0.490	0.590	0.16	0.59
1/4	0.528	0.424	0.255	0.181	0.386	0.480	0.555	0.650	0.23	0.67
5/16	0.544	0.470	0.320	0.215	0.400	0.500	0.590	0.690	0.29	0.67
3/8	0.632	0.547	0.380	0.270	0.465	0.565	0.720	0.815	0.35	0.79
1/2	0.777	0.671	0.506	0.304	0.561	0.659	0.797	0.869	0.48	0.93
5/8	0.935	0.836	0.638	0.335	0.703	-	1.093	-	0.50	1.06

METRIC CARTRIDGE CAVITY DIMENSIONS (mm)										
TUBE OD	ØA	ØB	ØC	D	E1	E2	F1	F2	ØG	H
4	12.50	8.30	4.14	4.60	8.89	11.30	12.80	15.20	3.30	15.0
5	11.98	9.06	5.13	4.57	8.63	11.17	12.44	14.98	4.06	15.0
6	13.41	10.00	6.12	4.60	9.80	12.20	14.00	16.50	5.30	16.5
8	13.82	11.94	8.13	5.46	10.16	12.70	14.99	17.50	7.40	17.0
10	16.05	14.00	10.15	6.86	11.81	14.35	18.17	20.71	9.20	19.0
12	19.10	16.54	12.15	8.65	15.50	19.00	23.50	27.00	11.20	22.0
15	22.86	20.32	15.19	9.00	17.50	21.00	26.90	30.40	14.20	27.0
22	31.05	27.80	22.20	10.85	21.10	24.70	31.60	35.20	21.20	34.5

Columns E2 and F2 refer to double 'o' ring half cartridges.
Half cartridges are also available with double 'o' rings. Please use suffix 2
(Example: MM2804N2 for Metal and PI2808S2 for Plastic half cartridges).

Columns E2 and F2 refer to double 'o' ring half cartridges.
Half cartridges are also available with double 'o' rings. Please use suffix 2
(Example: MM2804N2 for Metal and PM2806E2 for Plastic half cartridges).



The PPSV Range of Shut-Off Valves

The **PPSV** Range of inch-size Shut-Off Valves is offered for tube sizes 1/4" O.D. and 3/8" O.D. The valves are manufactured in white polypropylene with food grade EPDM 'o' rings for use with potable water. For use with other potable liquids, please refer to our Technical Support Department for guidance.

The valves are not to be used with compressed air, explosive gasses, petroleum spirits or other fuels, nor for heating systems.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (Max. 10 Bar at 20°C)
	Max.	60 psi at 140°F (Max. 4 Bar at 60°C)
	Min.	33°F/1°C



SPEEDFIT TO MALE NPTF POLYPROPYLENE BODY



PART NO.	TUBE OD		THREAD NPTF
PPSV010822W	1/4	x	1/4
PPSV011223W	3/8	x	3/8

SPEEDFIT TO SPEEDFIT POLYPROPYLENE BODY



PART NO.	TUBE OD
PPSV040808W	1/4
PPSV041212W	3/8

SPEEDFIT TO FEMALE NPTF ELBOW POLYPROPYLENE BODY



PART NO.	TUBE OD		THREAD NPTF
PPSV500822W	1/4	x	1/4
PPSV501222W	3/8	x	1/4

The PISV Range of Shut-Off Valves

The **PISV** Range of inch-size Shut-Off Valves is available in 3/8" tube O.D. size. The valve is manufactured in gray acetal copolymer with a nitrile 'o' ring.

The valves are available with long and short handles to operate a 1/4 turn off action.

Specifically designed for use with compressed air and potable liquids, the valves are ideal for CO₂ lines in beverage dispensing and for pneumatic applications.

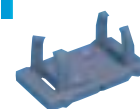
It is the customer's responsibility to ensure that the installation of John Guest fittings in CO₂ applications is performed in accordance with the relevant industry and government safety guidelines.

Working Pressures and Temperatures

Air:	150 psi at -4°F (10 Bar at -20°C)
Air/Potable Liquids:	150 psi at +33°F (10 Bar at +1°C)
	150 psi at +73°F (10 Bar at +23°C)
	100 psi at +150°F (7 Bar at +65°C)



MOUNTING CLIP – Acetal



PART NO.
SVMC - 10

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.

Available for 3/8" O.D. valves.

SPEEDFIT TO SPEEDFIT – Acetal BODY Long Handle



PART NO.	TUBE OD
PISV0412S	3/8
PISV0416S	1/2

SPEEDFIT TO SPEEDFIT – Acetal BODY Short Handle



PART NO.	TUBE OD
PISV0412CS	3/8

Inch-Size Shut-Off Valves and Inch- and Metric-Size Tubing

The PE Range of LLDPE Tubing

The PE Range of plastic tubing is available in inch and metric sizes in a variety of colors, produced in Linear Low Density Polyethylene.

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 approved materials and is listed with NSF International Standard 51 & 61.

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-in fittings, John Guest Shut-Off Valves, and virtually all standard tubing connectors.



NSF 51
NSF 61

SIZES AVAILABLE

PART NO.	OD	ID	COIL LENGTH	MIN BEND RADIUS
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"	1,000 FT	1.00"
PE-10-CI-0500F-N	5/16"(0.3125")	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-0806-100M-N	8mm	6mm	100m	30mm
PE-1007-100M-N	10mm	7mm	100m	32mm
PE-1209-100M-N	12mm	9mm	100m	63mm
PE-15115-0100-B	15mm	11.5mm	100m	100mm

N denotes natural color. To request other colors refer to table below, or contact our Customer Service Department.

COLORS AVAILABLE

SUFFIX	COLOR	SIZES									
		1/4"	5/16"	3/8"	1/2"	4mm	6mm	8mm	10mm	12mm	15mm
N	NATURAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	○
W	WHITE	✓	○	✓	✓	○	○	✓	○	○	○
B	BLUE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
E	*BLACK	✓	✓	✓	✓	✓	✓	✓	✓	✓	○
R	RED	✓	✓	✓	✓	✓	○	✓	✓	✓	✓
O	ORANGE	✓	○	✓	○	○	○	○	○	○	○
V	VIOLET	✓	○	✓	○	○	○	○	○	○	○
G	GREEN	✓	○	✓	○	○	○	○	○	○	✓
Y	YELLOW	✓	○	✓	○	○	○	○	○	○	○

* Black tubing is UV stabilized.

✓ Denotes standard colors available.

○ Denotes optional colors which may be available based on order quantity.

For quick, clean, and simple tube cutting, we recommend the John Guest Tube Cutter.



Tube Cutter Part No. TSNIP

Working Temperatures and Pressures

Tube OD		Tube ID	Tube OD		Tube ID
1/4"	x	0.170"	1/2"	x	0.375"
5/16"	x	0.187"	8mm	x	6mm
3/8"	x	0.25"	10mm	x	7mm
4mm	x	2.5mm	12mm	x	9mm
6mm	x	4mm	15mm	x	11.5mm
230 psi @ 70°F 15 bar @ 20°C			150 psi @ 70°F 10 bar @ 20°C		
120 psi @ 150°F 8 bar @ 60°C			90 psi @ 150°F 6 bar @ 60°C		

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

Burst Pressures are approximately 3 times the maximum working pressure.

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.

Tube Inserts

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

TUBE INSERT

PART NO.	TUBE OD	TUBE ID
TSI250S	5/16	1/4
TSI312S	3/8	5/16
TSI375S	1/2	3/8

NEW TUBE INSERT

PART NO.	TUBE OD
TSM10N	10
TSM15N	15
TSM22N	22

Chemical Resistance

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

When using John Guest LLDPE Tubing for pneumatic applications, ensure that the pressure does not exceed a maximum of 150 psi (10 bar) at 70°F (20°C). At elevated temperatures (above 120°F/50°C), mineral oil may degrade LLDPE Tubing, and therefore, LLDPE Tubing used in pneumatic circuits should be periodically checked and replaced as necessary.

Tube Tolerances

1/4" to 1/2"	+0.001"/-0.004"
4mm to 6mm	+0.05/-0.07mm
8mm to 12mm	+0.05/-0.10mm
15mm	+0.10/-0.10mm